

**County of Santa Clara**  
**Department of Planning and Development**  
County Government Center, East Wing, 7th Floor  
70 West Hedding Street  
San Jose, CA 95110  
Phone: (408) 299-5700  
www.sccplandev.org



**STAFF REPORT**  
**Zoning Administration**  
**July 6, 2023**  
**Item #2**

Staff Contact: Lulu Pang, Assistant Planner  
(408) 299-5718, [lulu.pang@pln.sccgov.org](mailto:lulu.pang@pln.sccgov.org)

**PLN23-036 (STANFORD UNIVERSITY)**

**Architecture and Site Approval and Grading Approval – Stanford University Varsity Tennis Center**

Summary: Architecture & Site Approval (ASA) and Grading Approval for the construction of the new Varsity Tennis Center including a 48,289 square foot (sq. ft.) tennis center building, replacement and reconfiguration of tennis courts, and associated site improvements. The project includes demolition of several structures including the existing Varsity Tennis Court Facility, Varsity Tennis North Wing, Varsity Tennis - Taube Family Tennis Stadium, and Taube Tennis Backcourt Bleachers. Proposed grading quantities associated with the Grading Approval include 1,553 cubic yards (c.y.) of cut and 4,545 c.y. of fill, with a maximum depth of 11.5 feet.

**Owner:** Stanford University  
**Applicant:** Mark Bonino, Project Manager  
**Address:** 275 Sam McDonald Mall, Stanford  
**APN:** 142-04-036

**Community Plan Designation:** Academic Campus  
**Zoning:** A1  
**Project Area:** 162,756 sq.ft. / 3.7 acres  
**Supervisory District:** 5

**RECOMMENDED ACTIONS**

- A. Approve the use of a prior California Environmental Quality Act (CEQA) document [2000 Stanford Community Plan and General Use Permit (GUP) Program Environmental Impact Report (EIR)]; and,
- B. Grant an Architecture & Site Approval (ASA) and Grading Approval, pursuant to Conditions of Approval outlined in Attachment B.

## **ATTACHMENTS INCLUDED**

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Attachment A – CEQA Determination – Use of a Prior CEQA Document  
Attachment B – Preliminary ASA Conditions of Approval  
Attachment C – Location & Vicinity Map  
Attachment D – Proposed Plans

## **PROJECT DESCRIPTION**

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The proposed project is for the construction of the new Varsity Tennis Center including a 48,289 sq. ft. tennis center building (7,101 “academic” GUP sq.ft.; 41,188 sq.ft. of building area includes covered/uncovered terrace, open circulation, open trellis, arcade, mechanical/utility rooms, which are not counted as GUP sq.ft.), replacement and reconfiguration of tennis courts, and associated site improvements. The project includes the demolition of all existing structures on the project site including the existing Varsity Tennis Court Facility, and Taube Family Tennis Stadium, with a total demolition square footage of 48,752 (43,623 “academic” GUP sq.ft.; 5,129 sq.ft. of building area includes exterior corridor, space open to below, and mechanical/utility rooms, which are not counted as GUP sq.ft.)

The project site is located on the southwestern portion of Sam McDonald Mall, between Campus Drive and Nelson Mall, adjacent to the Arrillaga Family Sports Center and Angell Field Stadium.

Four (4) non-oak trees and twelve (12) oak trees over 12 inches in diameter are proposed to be removed. These trees proposed for removal are not protected trees per the County of Santa Clara tree preservation ordinance and are not required to be replaced. Nine (9) non-oak trees and nineteen (19) oak trees are proposed to be planted on site. No new parking space is proposed for this project, nor is existing parking proposed to be removed in association with this project.

Proposed grading quantities associated with the Grading Approval include 1,553 c.y. of cut and 4,545 c.y. of fill, with a maximum depth of 11.5 feet. Grading associated with the building pad/foundation includes an additional 22 c.y. of cut and 29 c.y. of fill.

## **REASONS FOR RECOMMENDATION**

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### **A. Environmental Review and Determination (CEQA)**

The proposed project is in conformance with both the 2000 Stanford Community Plan (“SCP”) and General Use Permit (“GUP”) and has no new effects beyond those analyzed in the Program EIR, certified by the Board of Supervisors in December 2000. The Program EIR analyzed the environmental impacts of campus development allowed under the SCP and GUP. The proposed project is within the scope of the campus development analyzed in the 2000 GUP. Therefore, the use of the prior CEQA document is adequate for this project.

### **B. Project/Proposal**

1. Stanford Community Plan and GUP: The project conforms to applicable Community Plan goals, strategies, and policies. Academic Support uses like the athletic facilities in the Varsity Tennis Center are permitted uses within the Academic Campus land use designation, and as conditioned will satisfy the requirements of the GUP. The 2000 Community Plan and GUP govern development projects on the Stanford campus. This



project conforms to the criteria set forth by the GUP and provisions identified within the Community Plan, and is subject to compliance with the preliminary conditions outlined in Attachment B.

## 2. **ASA approval:**

ASA approval standards, applicable regulations, and findings: The project substantially conforms to the requirements and guidelines in the SCP and GUP. These requirements meet all of the ASA Guidelines through the ASA approval process approved by the Zoning Administrator.

### **ASA Findings:**

Pursuant to §5.40.040 of the County Zoning Ordinance, the Zoning Administrator may grant an Architecture & Site Approval contingent upon specific findings. In the following discussion, the scope of review findings is listed in **bold**, and an explanation of how the project meets the required standard is in plain text below.

#### **A. Adequate traffic safety, on-site circulation, parking and loading areas, and insignificant effect of the development on traffic movement in the area;**

##### Long-term traffic

The project is located within an established area of the Stanford academic campus with adequate parking facilities. Traffic impacts of academic and academic support projects in the core of the campus have been assessed in the programmatic 2000 GUP EIR. These traffic impacts are not dependent on the location of academic projects, as occupants of these buildings will travel to established parking areas, not to the proposed building itself. The project proposes to update the existing Varsity Tennis Center with a new Tennis Center, creating no net increase in sporting uses on-site. Moreover, a total of 1,030 new seats are proposed in the Varsity Tennis Center, and with the demolition of the existing tennis facilities, 2,445 seats would be removed. With a net decrease in the number of seats, the project is likely to generate less traffic compared to the existing condition. As such, the project does not generate any new trips from a traffic impact perspective. Additionally, the traffic would be consistent with that analyzed in the 2000 GUP EIR.

##### Short-term construction traffic

The project will result in short-term impacts related to construction activities; however, conditions of approval have been added to this project to mitigate these short-term impacts to a “*less than significant level*”. All construction trucks will be required to use approved truck routes, for transporting construction materials to and from the site. Furthermore, the project has been conditioned to restrict construction material deliveries to non-peak hours, as defined in the 2000 GUP EIR. Compliance with the Conditions of Approval (Attachment B) ensures that the short-term construction traffic associated with the project will not have a significant effect on traffic movement in the area.

##### Parking

Stanford addresses parking needs at the University in a comprehensive manner, staying within the parking cap established under the 2000 GUP. The project does not propose adding to or removing existing parking spaces, as the existing parking is adequate for the

proposed development. The nearest commuter and visitor parking can be found at Sam McDonald Mall, in the Varsity Parking Lot, and on Bonair Siding Road, in the Maples Parking Lot.

For the reasons stated above, this finding *can* be made.

**B. Appearance of proposed site development and structures, including signs will not be detrimental to the character of the surrounding neighborhood or zoning district;**

The new proposed Varsity Tennis Center is an athletic and recreation facility building. The project site is located in Stanford's Department of Athletics, Physical Education and Recreation (DAPER) and Administrative Development District, surrounded by other Stanford athletic facilities including the Angell Field Stadium to the north, Avery Aquatic Center to the east, and Arrillaga Family Sports Center to the south. The proposed new Varsity Tennis Center will replace the existing tennis facility, on the same site.

The height of the proposed building is 26 feet and 6 inches as measured from the ground floor level to the roof, and it extends to 34 feet and 2 inches when measured up to the top of the elevated tower (shown on sheet A3-6 of Attachment D). The exterior concrete finish and beige color of the Varsity Tennis Center will match the surrounding neighborhood, specifically the adjacent Arrillaga Family Sports Center (shown on sheet A3-1 of Attachment D). Additional landscaping is proposed surrounding the building and courts to provide screening along Campus Drive.

Twelve (12) lighting poles are proposed to provide illumination for the tennis courts. The lighting fixtures are downward-directed with glare shields as shown on sheets A5-2 & A5-3 of Attachment D. Per the submitted photometric plan, lighting is focused on the tennis courts and spillage becomes zero footcandle approximately 200 feet from the edge of the tennis courts, resulting in no light spillage to the public right of way (ROW) as the closest ROW (El Camino Real) is approximately 1,700 feet from the project location.

As such, the proposed Varsity Tennis Center conforms with the surrounding area and will not be detrimental to the character of the surrounding neighborhood or zoning district. For the reasons stated above, this finding *can* be made.

**C. Appearance and continued maintenance of proposed landscaping will not be detrimental to the character of the surrounding neighborhood or zoning district;**

The GUP and the SCP require that replacement trees, for those removed that are 12 inches or greater in diameter at 4.5 feet from grade level, be planted at a 1:3 ratio for all protected oak trees and at a minimum 1:1 ratio for all protected non-oak trees. Four (4) non-oak trees and twelve (12) oak trees over 12 inches in diameter are proposed for removal. These trees do not count as protected trees under the 2000 Stanford GUP and are not required to be replaced. However, nine (9) non-oak trees and nineteen (19) oak trees are proposed to be replanted (shown on sheet L-1.03 of Attachment D). Additionally, eight

(8) remaining oak trees with a 12-inch or greater diameter surrounding the project site will be considered protected (shown on sheets C-3.0 and C-3.1 of Attachment D).

A preliminary landscape plan was submitted by the applicant for review. The reconfigured landscaping includes nine (9) new crape myrtles, five (5) coast live oaks, fourteen (14) island live oak trees, the installation of a concrete courtyard, plaza, pavers, and various shrubs and vines located along the Sam Macdonald Mall entrance to Varsity Tennis Center. No preliminary issues of concern were identified, and the preliminary landscape plan meets County requirements. Staff has added a condition of approval requiring that the landscaping meet the requirements of the SCP and GUP. The final landscape plan is also subject to the requirements of the County Sustainable Landscape Ordinance. As such, the final landscape plan will not be detrimental to the character of the surrounding area and will blend in with the character of the surrounding area.

As such, this finding *can* be made.

**D. No significant, unmitigated adverse public health, safety and environmental effects of proposed development;**

The Program GUP EIR certified by the Board of Supervisors in December 2000 analyzed the environmental impacts of Stanford campus development allowed under the SCP and GUP. The proposed project is within the scope of the development analyzed in the 2000 GUP EIR. All appropriate conditions of approval have been added to ensure conformance with the 2000 GUP EIR.

The prior CEQA analysis concluded that the proposed development would not result in any significant environmental impacts as it relates to parking, traffic, construction noise, and air quality. The project has been reviewed with respect to all applicable regulations relating to public health and safety by County subject matter experts, including Land Development Engineering, Department of Environmental Health, and the Fire Marshal. All subject matter experts have recommended approval of the project with Conditions and determined that the project will not result in significant, unmitigated adverse public health, safety, or environmental effect. Furthermore, the CEQA analysis for the project determined that with the conditions of approval, the project would not result in any significant environmental impacts (See Attachment A).

As such, this finding *can* be made.

**E. No adverse effect of the development on flood control, storm drainage, and surface water drainage;**

The project site does not contain any creeks or streams and is not located within a 100-year flood zone. The project has been reviewed by County Land Development and Engineering staff with respect to all applicable regulations relating to drainage and flood control. As such, this finding *can* be made.

**F. Adequate existing and proposed fire protection improvements to serve the development;**

The Fire Marshal's Office has reviewed and conditioned the project to ensure existing and proposed fire protection access and water supply are in conformance with applicable regulations. Additionally, Conditions of Approval no. 38 through 41 (Attachment B) have been included to ensure compliance with County regulations relating to fire protection. For these reasons, this finding *can* be made.

**G. No significant increase in noise levels;**

The project is not anticipated to cause any significant increases in noise levels to the surrounding neighborhoods. The existing Taube Tennis Center currently has an outdoor sound amplification system to support competitive tennis matches. The outdoor sound amplification system will be replaced and redesigned to correspond with the new design of the facility. The project has been conditioned to comply with the requirements of the County Noise Ordinance Sec. B11-152.

The project may create short-term/temporary construction noise impacts due to construction activities and construction traffic. The project has been conditioned to limit construction activities to the hours of 7AM and 7PM, Monday through Saturday, with no construction activity occurring between the hours of 7PM and 7AM, or on Sundays.

Therefore, as conditioned, this finding *can* be made.

**H. Conformance with zoning standards, unless such standards are expressly eligible for modification by the Zoning Administrator as specified in the Zoning Ordinance.**

The project site is zoned A1, which is the "General Use" zoning district that provides for general purpose uses subject to discretionary land use approvals. The standards applicable to development within this zoning district are listed in Table 2.50-2 of the County Zoning Ordinance, that establishes a 35-foot maximum height requirement for the A1 district. The project complies with the development standards set forth in the zoning ordinance.

The proposed Varsity Tennis Center has a maximum height of 26 feet and 6 inches as measured from the ground floor level to the roof, and it extends to 34 feet and 2 inches when measured up to the top of the elevated tower (shown on sheet A3-6 of Attachment D), which is less than the general 35-foot zoning standard limitation in A1 district. As such, this finding *can* be made.

**I. Conformance with the general plan and any applicable area or specific plan, or, where applicable, city general plan conformance for property located within a city's urban service area; and**

The Stanford academic campus is primarily designated as Major Educational and Institutional Use within the Santa Clara County General Plan. The Community Plan

identifies the project site for Varsity Tennis Center as Academic Campus (AC). The proposed project is a construction of a new athletic facility and complies with the applicable policies set forth in the Community Plan with reference to SCP-LU1 and SCP-LU2, which state that allowable academic uses include athletics, physical education, and recreation facilities.

**J. Substantial conformance with the adopted “Guidelines for Architecture and Site Approval” and other applicable guidelines adopted by the County.**

Some suggested regulations that are addressed in the ASA Guidelines are superseded by the requirements and guidelines of the SCP and GUP. Nonetheless, conformance with the SCP and GUP is consistent with the ASA Guidelines. Specifically, the proposed project complies with the landscaping guidelines set forth in ASA Guidelines as the landscaping blends with vegetation on nearby properties, and natural vegetation is retained to the extent feasible. As such, this finding *can* be made.

**Grading Findings:**

Pursuant to Section C12-433, all Grading Approvals are subject to specific findings. In the following discussion, the scope of review findings is listed in **bold**, and an explanation of how the project meets the required standard is in plain text below.

**A. The amount, design, location, and the nature of any proposed grading is necessary to establish or maintain a use presently permitted by law on the property.**

Proposed grading quantities associated with the Grading Approval include 1,553 c.y. of cut and 4,545 c.y. of fill, with a maximum depth of 11.5 feet. Grading associated with the building pad/foundation includes an additional 22 c.y. of cut and 29 c.y. of fill.

Of the total grading quantities, 3,867 c.y. of fill is proposed to backfill the subgrade demolition for the basement level of the existing Taube Family Tennis Stadium. The proposed grading substantially matches the natural terrain and existing topography of the site. As such, the amount, design, location, and the nature of proposed grading is necessary to establish the improvements, which are a permissible use in the A1 zoning district. As such, this finding *can* be made.

**B. The grading will not endanger public and/or private property, endanger public health and safety, will not result in excessive deposition of debris or soil in the watercourse.**

The applicant will be required to obtain a Grading Permit through the County’s Land Development Engineering, which will ensure that the project adequately drains to an approved location. No excessive material will be deposited onsite. All excess grading will be hauled to a County-approved off-site facility. Furthermore, no grading is proposed near a creek that may impair any existing spring or watercourse. As such, this finding *can* be made.

**C. Grading will minimize impacts to the natural landscape, scenic, biological and aquatic resources, and minimize erosion impacts.**

The proposed grading has been designed to minimize impacts to existing landscaping, and will not result in any scenic, biological, or aquatic resource impacts. Four (4) non-oak trees and twelve (12) oak trees over 12 inches in diameter are being removed to accommodate the new tennis courts and reconfigured landscape area. These trees do not count as protected trees under the 2000 Stanford GUP and are not required to be replaced. However, nine (9) non-oak trees and nineteen (19) oak trees are proposed to be replanted in the landscaped area. Compliance with the conditions of approval (Attachment B) has been identified and is required to minimize impacts to the natural landscape, scenic, biological, and aquatic resources, and minimize erosion impacts. As such, this finding *can* be made,

**D. For grading associated with a new building or development site, the subject site shall be one that minimizes grading in comparison with other available development sites, taking into consideration other development constraints and regulations applicable to the project.**

The site is relatively flat. The grading associated with the Grading Approval is primarily for the backfilling of the subgrade demolition for the basement level of the existing Taube Family Tennis Stadium. The proposed grading, with compliance with the conditions of approval in Attachment B, will be in conformance with all applicable regulations. As such, this finding *can* be made.

**E. Grading and associated improvements will conform with the natural terrain and existing topography of the site as much as possible and should not create a significant visual scar.**

The proposed 3,867 c.y. of backfill for the basement demolition of the existing Taube Family Tennis Stadium will be finished with installing new tennis courts above. The new tennis court area will match the existing surrounding grades. As such, the proposed grading is designed to conform with the existing topography of the surrounding area to minimize grading and visual impacts. As such, this finding *can* be made.

**F. Grading conforms with any applicable general plan or specific plan policies; and**

The proposed grading is in conformance with specific findings and policies identified in the County General Plan. The proposed grading is designed to minimize grading and to reduce visual impacts from surrounding uses in keeping with General Plan policies. Grading outside of the building pad area is provided for landscaping, driveway, access road, and other site improvements. The proposed landscaping area matches the existing grade and is therefore compatible with the surrounding development in the area. As such, this finding *can* be made.

**G. Grading substantially conforms with the adopted "Guidelines for Grading and Hillside Development" and other applicable guidelines adopted by the County.**

The project site is in the AI zone on the academic campus of Stanford University, and is not located within a hillside zoning district. As such, this finding *does not apply* to the site.

**BACKGROUND**

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On December 12, 2000 the County of Santa Clara approved the 2000 Stanford University Community Plan and General Use Permit (GUP), governing development projects on the Stanford campus. The GUP allows Stanford to construct up to 2,035,000 net square feet of academic and academic support uses, 3,018 new housing units, and 2,300 net new parking spaces on Stanford lands. The GUP was subsequently amended three times to move permitted academic square footage from one district to another, provide flexibility in the type of housing construction, and for additional housing.

The proposed tennis center building is 48,289 sq.ft. in size (7,101 “academic” GUP sq.ft.; 41,188 sq.ft. of building area includes covered/uncovered terrace, open circulation, open trellis, arcade, mechanical/utility rooms, which are not counted as GUP sq.ft.). The project also includes demolition of several structures including the existing Varsity Tennis Court Facility, and Taube Family Tennis Stadium. The total square footage of demolition is 48,752 sq.ft. (43,623 “academic” GUP sq.ft.; 5,129 sq.ft. of building area includes exterior corridor, open to below space, mechanical/utility rooms, which are not counted as GUP sq.ft.).

The proposed new Varsity Tennis Center is located in the DAPER and Administrative Development District (District). As of June 2023 the existing GUP square footage in the District is 42,972 sq. ft. As the demolition square footage exceeds the proposed construction square footage, the project would result in a net decrease of 36,522 GUP sq.ft. Therefore, after the addition of the new Varsity Tennis Center, the balance GUP square footage remaining in the District would be 79,494 sq.ft.

On February 22, 2023 an application for Architecture and Site Approval and Grading Approval was submitted for Varsity Tennis Center including one new tennis center building and twelve (12) tennis courts. The application was deemed incomplete on March 23, 2023 and was resubmitted on May 5, 2023. Subsequently, the application was deemed complete on June 2, 2023. As of writing this report, no public comments were received for this application. A public notice was mailed to all property owners within a 300-foot radius and the interested parties list on June 23, 2023 and was also published in the Post Records on June 23, 2023.

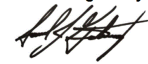
**STAFF REPORT REVIEW**

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Prepared by: Lulu Pang, Assistant Planner

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Reviewed by: Samuel Gutierrez, Principal Planner

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## USE OF A PRIOR CEQA DOCUMENT PROGRAM ENVIRONMENTAL IMPACT REPORT (EIR)


Pursuant to Section 15162 of the CEQA Guidelines, the County of Santa Clara has determined that the project described below is pursuant to or in furtherance of an Environmental Impact Report which has been previously adopted and does not involve new significant impacts beyond those analyzed in the previous Environmental Impact Report.

<b>File Number</b>	<b>APN(s)</b>	<b>Date</b>
PLN23-036	142-04-036	July 06, 2023
<b>Project Name</b>	<b>Project Type</b>	
Stanford University Varsity Tennis Center	Architecture and Site Approval and Grading Approval	
<b>Owner</b>	<b>Applicant</b>	
Stanford University	Mark Bonino, Project Manager	
<b>Project Location</b>		
275 Sam McDonald Mall, Stanford		
<b>Project Description</b>		
Concurrent land use application including an Architecture & Site Approval (ASA) and Grading Approval for the construction of the new Varsity Tennis Center including a 48,289 square foot tennis center building, replacement and reconfiguration of tennis courts, and associated site improvements. The project includes demolition of four structures included in the existing Varsity Tennis Court Facility, and the Taube Family Tennis Stadium, with a total demolition square footage of 48,752. Proposed grading quantities associated with the Grading Approval include 1,553 cubic yards (c.y.) of cut and 4,545 c.y. of fill, with a maximum depth of 11.5 feet.		

### Background and Summary of Findings

Per the California Environmental Quality Act (CEQA) of 1970 (as amended), all development permits processed by the County Planning Office which require discretionary approval are subject to environmental review. A new Negative Declaration or EIR is not required if a previous CEQA document has been prepared and adopted or certified which adequately addresses all the possible environmental impacts of the proposed project and (a) no substantial changes are proposed in the project which will result in new significant environmental effects, (b) no substantial changes have occurred with respect to the circumstances under which will result in the identification of new significant impacts, or (c) no new information is available which shows that the project will have new significant impacts or mitigation measures and alternatives which were previously found to be infeasible would now in fact be feasible (CEQA Guidelines 15162).

The Planning Office evaluated the project described above and has determined that none of the circumstances exist which would require additional environmental review. As such the environmental impacts of the project have been adequately evaluated in the Environmental Impact Report adopted by the Board of Supervisors on December 15, 2000, for the project entitled "Stanford University Community Plan and General Use Permit" and that no further environmental review is required under the California Environmental Quality Act.

<b>Approved by:</b> Lulu Pang, Assistant Planner	 _____ <b>Signature</b>	06/29/2023 _____ <b>Date</b>
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**ATTACHMENT B**  
**PRELIMINARY CONDITIONS OF APPROVAL**  
**FOR**  
**ARCHITECTURE & SITE APPROVAL AND GRADING APPROVAL**

Date: July 6, 2023

Owner/Applicant: Stanford University

Location: 275 Sam McDonald Mall, Stanford (APN: 142-04-036)

File Number: PLN23-036

CEQA: Prior CEQA - 2000 Stanford Community Plan and General Use Permit (GUP) Program Environmental Impact Report (EIR)

Project Description: Concurrent land use application including an Architecture & Site Approval (ASA) and Grading Approval for the construction of the new Varsity Tennis Center including a 48,289 square foot tennis center building, replacement and reconfiguration of tennis courts, and associated site improvements. The project includes demolition of four structures included in the existing Varsity Tennis Court Facility, and the Taube Family Tennis Stadium, with a total demolition square footage of 48,752. Proposed grading quantities associated with the Grading Approval include 1,553 cubic yards (c.y.) of cut and 4,545 c.y. of fill, with a maximum depth of 11.5 feet.

If you have any questions regarding the following preliminary conditions of approval, call the person whose name is listed as the contact for that agency. They represent a specialty or office and can provide details about the conditions of approval.

<b>Agency</b>	<b>Name</b>	<b>Phone</b>	<b>E-mail</b>
<b>Planning</b>	Lulu Pang	(408) 299-5718	<a href="mailto:lulu.pang@pln.sccgov.org">lulu.pang@pln.sccgov.org</a>
<b>Land Development Engineering</b>	Ed Duazo	(408) 299-5733	<a href="mailto:ed.duazo@pln.sccgov.org">ed.duazo@pln.sccgov.org</a>
<b>Fire Marshal</b>	Alex Goff	(408) 299-5763	<a href="mailto:alex.goff@sccfd.org">alex.goff@sccfd.org</a>
<b>Environmental Health</b>	Darrin Lee	(408) 573-2464	<a href="mailto:darrin.lee@cep.sccgov.org">darrin.lee@cep.sccgov.org</a>
<b>Building Inspection</b>	Building Inspection Office	(408) 299-5700	

## **STANDARD CONDITIONS OF APPROVAL**

### **Building Inspection**

1. For detailed information about the requirements for a building permit, obtain a Building Permit Application Instruction handout from the Office of Building Inspection or visit their website ([www.sccbbuilding.org](http://www.sccbbuilding.org)).

### **Planning**

2. Development and maintenance of the project site shall take place in accordance with approved plans, received by the Planning Department on February 22, 2023. The project allows construction of a 48,289 sq. ft. tennis center building, twelve (12) new tennis courts and associated site improvements. The project includes demolition of four structures included in the existing Varsity Tennis Court Facility, and the Taube Family Tennis Stadium, with a total demolition square footage of 48,752. The plans submitted into Plan Check shall be in substantial conformance with the approved plans. Any changes to the approved project included such as (but not limited to) the design, quantity, location or other modifications to the approved plans are required to be submitted for review by the Planning Office and may result in a Modification to the approved ASA and Grading Approval and may be subject to additional review under the California Environmental Quality Act (CEQA).
3. File and obtain demolition, grading, and building permits for the project.
4. The project shall comply with the Stanford University 2000 General Use Permit Conditions of Approval, and approved Stanford University 2000 GUP Mitigation Monitoring and Reporting Program.
5. Stanford shall be responsible for paying all reasonable costs associated with work by the County Planning Department, or with work conducted under the supervision of the County Planning Office, in conjunction with, or in any way related to the conditions of approval identified in this project. This includes but is not limited to costs for staff time, consultant fees, and direct costs associated with report production and distribution.
6. In the event that previously unidentified historic or prehistoric archaeological resources are discovered during construction, the contractor shall cease work in the immediate area and the County Planning Office and Campus Archaeologist shall be contacted. An independent qualified archaeologist retained by the County at the expense of Stanford shall assess the significance of the find and make mitigation recommendations.
7. If archeological resources are discovered as described above, construction monitoring shall be conducted at any time ground-disturbing activities (greater than 12 inches in depth) are taking place in the immediate vicinity of the identified resources. If monitoring does not produce evidence of significant cultural resources within the project area, further mitigation shall be limited to construction monitoring, unless additional testing or other

specific mitigation measures are determined by a qualified archaeologist to be necessary to ensure avoidance of damage to significant archaeological resources. A technical report of findings describing the results of all monitoring shall be prepared in accordance with professional standards. The archaeological monitoring program shall be implemented by an individual meeting the Secretary of Interior Professional Qualifications Standards in Archaeology (36 CFR 61); individual field monitors shall be qualified in the recognition of cultural resources and possess sufficient academic and field training as required to conduct the work effectively and without undue delay.

8. In the event that human skeletal remains are encountered, the applicant is required by County Ordinance No. B6-18 to immediately notify the County Coroner. Upon determination by the County Coroner that the remains are Native American, the coroner shall contact the California Native American Heritage Commission, pursuant to subdivision (c) of section 7050.5 of the Health and Safety Code and the County Coordinator of Indian affairs. No further disturbance of the site may be made except as authorized by the County Coordinator of Indian Affairs in accordance with the provisions of state law and this chapter. If artifacts are found on the site a qualified archaeologist shall be contacted along with the County Planning Office. No further disturbance of the artifacts may be made except as authorized by the County Planning Office.
9. In the event that a fossilized shell or bone is uncovered during any earth-disturbing operation, contractors shall stop work in the immediate area of the find and notify the Campus Archaeologist and the County Building Inspector assigned to the project. The Campus Archaeologist shall visit the site and make recommendations for treatment of the find (including but not limited to consultation with a paleontologist and excavation, if warranted), which would be sent to the County Building Inspection Office and the County Planning Office. If a fossil find is confirmed, it will be recorded with the United States Geological Survey and curated in an appropriate repository.

#### Department of Environmental Health

10. All exterior activities shall comply with County of Santa Clara Noise Ordinance (B11-152), unless exempted under B11-156 (Special Provisions), where the occasional outdoor gatherings, public dances, shows, and sporting and entertainment events, provided the events are conducted pursuant to a permit or license issued by the County relative to the staging of the events.
11. All construction activities shall be in conformance with the Santa Clara County Noise Ordinance Section B11-154 and prohibited between the hours of 7:00 p.m. and 7:00 a.m. on weekdays and Saturdays, or at any time on Sundays for the duration of construction.

**CONDITIONS OF APPROVAL TO BE COMPLETED PRIOR TO GRADING OR BUILDING PERMIT ISSUANCE**

Planning

12. Place a construction note on the site plan that states the following: *“The Bay Area Air Quality Management District (BAAQMD) has identified a set of feasible PM10 control measures for all construction activities. These control measures, as previously required in the Program EIR, shall be adhered to during all construction activities.*
- A. Water all active construction areas at least twice daily;*
  - B. Cover all trucks hauling soil, sand, and other loose materials or require all trucks to maintain at least two feet of freeboard;*
  - C. Pave, apply water three times daily, or apply (non-toxic) soil stabilizers on all unpaved access roads, parking areas and staging areas at construction sites;*
  - D. Sweep daily (with water sweepers) all paved access roads, parking areas and staging areas at construction sites;*
  - E. Sweep streets daily (with water sweepers) if visible soil material is carried onto adjacent public streets;*
  - F. Hydroseed or apply (non-toxic) soil stabilizers to inactive construction areas (previously graded areas inactive for ten days or more);*
  - G. Enclose, cover, water twice daily or apply (non-toxic) soil binders to exposed stockpiles (dirt, sand,);*
  - H. Limit traffic speeds on unpaved roads to 15 mph;*
  - I. Install fiber rolls, sandbags or other erosion control measures to prevent silt runoff to public roadways;*
  - J. Replant vegetation in disturbed areas as quickly as possible;*
  - K. Install wheel washers for all existing trucks, or wash off the tires of tracks of all trucks and equipment leaving the site; and*
  - L. Suspend excavation and grading activity when winds (instantaneous gusts) exceed 25 mph.”*
13. Place a construction note on the site plan that states the following: *“All construction contractors shall properly maintain the equipment and where feasible, use “clean fuel” equipment and emissions control technology (e.g., CNG fired engines, catalytic converters, particulate traps, etc.). Measures to reduce diesel emission would be considered feasible when they are capable of being used on equipment without interfering substantially with equipment performance.”*
14. Submit a site plan that shows all pedestrian and bicycle corridors along with public transit stops adjacent to the project site and indicate how bicycle, pedestrian, and public transit access and circulation will be maintained during construction. Bicycle and pedestrian access onto the campus and around the site (outside construction areas) shall not be substantially limited by construction activities associated with the project. In addition,

access to public transit shall not be limited, which could include the relocation or removal of adjacent bus stops.

15. Final grading permit plans shall include the following construction notes:
  - A. Stanford shall make feasible attempts to limit the number of construction material deliveries from 7:00 a.m. to 9:00 a.m. and from 4:00 p.m. to 6:00 p.m. (peak-hours) on weekdays. Construction material delivery shall not result in reduction in on-street parking; reduction in pedestrian, bicycle, and public transit access; use of non-truck routes by construction traffic; damage to roadways; and interference with special events (This construction note shall be included in the Final grading permit plans). Stanford shall provide estimated total construction material deliveries, as well as estimated material deliveries, between these peak-hours as part of the Construction Logistics and Management Plan, and provide notice to residents and interested parties for deliveries during peak hours.
  - B. Trucks exporting/importing dirt and building materials for the project shall use approved truck routes shown in the 2000 GUP, as designated by the cities of Palo Alto and Menlo Park.
  
16. Submit a Construction Management and Logistics Plan for approval by Planning and Land Development Engineering, **prior to issuance of any grading permits**, that clearly identifies the elements listed below:
  - A. Provide the location, anticipated quantities and time frame for construction staging and earthwork stockpiling associated with this project. Said location is required to be approved by Planning and Land Development Engineering.
  - B. Provide off-street construction related parking. Identify off-street parking location(s) on site plan for all construction related vehicles (employee parking and construction equipment) throughout the construction period. If adequate parking cannot be provided on the construction sites, identify on the site plan or vicinity map the satellite parking location(s) that will be used.
  - C. Prohibit impacts to accessing public transit access and movement of public transit vehicles. Identify on site plan all temporary or permanent access limitations, re-routes, lane closures, or limits to public transit movements or place a note on the site plan stating “No temporary or permanent access limitations, re-routes, lane closures, or limits to public transit movement are permitted.”
  - D. Prohibit roadway construction activities from reducing roadway capacity during Stanford major athletic and special events. Stanford shall not limit roadway capacity during special events or during major athletic events, which attract a large number of visitors to the campus.
  - E. Provide written notification to Stanford Police and Palo Alto Fire Department regarding construction location and construction dates. Include in the notices alternate evacuation and emergency route designations to maintain response times during construction periods, if applicable. Provide one copy of the notices to the County.
  - F. Provide written notification to all contractors and subcontractors regarding appropriate routes and weight limits and speed limits for local roads used to access construction sites. Provide one copy of the notices to the County Planning Office.

- G. Provide notification to the Cities of Palo Alto and Menlo Park of the construction schedule and include a copy of the Santa Clara County approved Construction and Traffic Management Plan. Provide one copy of the notices to the County Planning Office.
17. The following tree removal/protection requirements shall apply:
- A. Four (4) non-oak trees and twelve (12) oak trees over 12 inches in diameter at 4.5 feet above grade are authorized for removal with this project (refer to approved plan pages C-3.0 and C-3.1).
  - B. All other trees in the project area shall remain and are protected after the approval of this ASA and Grading Approval, per plan C-3.0 and C-3.1.
  - C. If any trees are proposed to be removed after the approval of the ASA, further review by the Planning Office may be required to assess the visual impact of the tree removal on the project and surrounding area.
  - D. Final grading plans shall show the size and species of all trees over 12 inches in diameter (at 4.5 feet above grade) within the proposed work area for the project and clearly label all trees proposed for removal. This shall include all trees where construction will occur within the dripline of the tree.
  - E. An I.S.A.-certified arborist shall review final grading plans. The objective shall be to ensure that all the trees adjacent to the improvements will not be damaged or removed.
  - F. A certified arborist shall monitor the construction and provide written recommendations to preserve any potentially impacted trees associated with the proposed improvements. Submit a plan-review letter prior to the issuance of the final grading permit evaluating the consistency of final grading plans with these mitigations and a construction-observation letter prior to the issuance of final occupancy summarizing the implementation of these mitigation measures.
    - i. Provide two copies of an arborist report that recommends effective tree protection measures for the site's existing trees that have not been slated for removal. Protection measures must be in place prior to construction activity commencing.
18. Adequate signs shall be posted along the street frontages or in front of the project site, no smaller than 1,296 square inches in size, containing the name, telephone number, and email address of the appropriate Stanford person the public may contact to register a complaint about construction noise. Additionally, Stanford shall create an outreach and information portal to facilitate information and alerts to be delivered to the immediate neighborhoods on construction activities. Stanford shall keep a written record of all such complaints and shall provide copies of these records to the County Planning Office.
19. Preconstruction surveys for nesting raptors and migratory birds shall be conducted by a qualified ornithologist to identify active nests that may be disturbed during project implementation. Between January 1 and April 30, preconstruction surveys shall be conducted no more than 14 days **prior to the initiation of construction activities or tree removal**. Between May 1 and August 31, preconstruction surveys no more than 30 days **prior to the initiation of these activities**. Stanford University shall conduct an additional preconstruction survey within 24 hours of initiation of construction activities, by the

Campus Biologist, to verify no new nesting has occurred. If an active nest is found near, or in close proximity to, the construction area where the nest could be disturbed by these activities, the ornithologist or Campus Biologist, shall, in consultation with the California Department of Fish and Game, designate a construction-free buffer zone (typically 250 feet) around the nest.

20. Landscape Plan: The requirements of Division B33 of the County Ordinance Code (Sustainable Landscape Ordinance) shall apply. As proposed, if the total landscape area exceeds 2,500 sq. ft., a landscape documentation package shall be submitted **prior to building permit issuance** for review and approval. New landscaping shall be similar to existing landscaping on-site and meet all Stanford Community Plan and General Use Permit requirements. The submittal shall include a landscaping plan and irrigation plan, stamped and signed by a licensed landscape architect. Submit two (2) copies of the final landscape plan and associated irrigation systems, prepared and stamped by a licensed landscape architect.

The landscape ordinance and supporting information can be found on the Planning Department web site: <https://plandev.sccgov.org/landscape-ordinance>

21. Incorporate any applicable water conservation and recycling measures into the project building plans, which may include but not be limited to: water efficient landscape, landscape water management, and public outreach.
22. **Prior to building permit issuance**, submit a detailed lighting plan which includes all new exterior lighting. The Lighting Plan shall provide light fixture details (cut sheets) with lighting profiles and product-specific information that includes the following information:

Depict the extent of illumination from all new outdoor lighting (photometric plan, beam patterns). The Photometric plan shall note the light fixtures and their locations relative to their photometrics on the plan. Light poles or mounting details must also be included. Lighting shall include light fixtures that are shielded. All lighting shall be downward-directed and shall only illuminate the area intended. Ensure absence of upward glow. Use “state-of-the-art” luminaries including those with high beam efficiency.

#### Land Development Engineering

23. Obtain a Grading Permit from Land Development Engineering (LDE) prior to beginning any construction activities. Issuance of the grading permit is required **prior to LDE clearance of the building permit** (building and grading permits can be applied for concurrently). If the grading and building construction are to be phased, then issuance of the foundation permit shall be contingent on issuance of the rough grading permit, and issuance of the final grading permit shall be contingent on issuance of the final/finish grading permit. The process for obtaining a Grading Permit and the forms that are required can be found at the following web page:

[www.sccplanning.org](http://www.sccplanning.org) > How To > Apply for a Development Permit... > [Grading Permit](#)

24. Final plans shall include a single sheet which contains the County standard notes and certificates as shown on County Standard Cover Sheet. Plans shall be neatly and accurately drawn, at an appropriate scale that will enable ready identification and recognition of submitted information.

25. Final grading plans shall be prepared by a licensed civil engineer for review and approval by LDE and the scope of work shall be in substantial conformance with the conditionally approved preliminary plans on file with the Planning Office. Include plan, profile, typical sections, contour grading for all street, road, driveway, structures and other improvements as appropriate for construction. The final design shall be in conformance with all currently adopted standards and ordinances. The following standards (Land Development Engineering Standards and Policies Manual, Volume 1, and 2007 Santa Clara County Drainage Manual) are available on-line:

[www.sccplanning.org](http://www.sccplanning.org) > Ordinances & Codes > [Land Development Standards and Policies](#)

[www.sccplanning.org](http://www.sccplanning.org) > Ordinances & Codes > [Grading & Drainage Ordinance](#)

26. Survey monuments shall be shown on the improvement plan to provide sufficient information to locate the proposed improvements and the property lines. Existing monuments must be exposed, verified and noted on the grading plans. Where existing monuments are below grade, they shall be field verified by the surveyor and the grade shall be restored and a temporary stake shall be placed identifying the location of the found monument. If existing survey monuments are not found, temporary staking delineating the property line may be placed prior to construction and new monuments shall be set prior to final acceptance of the improvements. The permanent survey monuments shall be set pursuant to the State Land Surveyor's Act. The Land Surveyor / Engineer in charge of the boundary survey shall file appropriate records pursuant to Business and Professions Code Section 8762 or 8771 of the Land Surveyors Act with the County Surveyor.

27. The improvement plans shall include an Erosion and Sediment Control Plan that outlines seasonally appropriate erosion and sediment controls during the construction period). Include the County's Standard Best Management Practice Plan Sheets BMP-1 and BMP-2 with the Plan Set.

28. All new on-site utilities, mains, and services shall be placed underground and extended to serve the proposed development. All extensions shall be included in the improvement plans. Off-site work should be coordinated with any other undergrounding to serve other properties in the immediate area.

29. In the grading plans, include a stormwater management plan that details how the project complies with Provision C.3 of the current NPDES Municipal Regional Permit. Include C.3 sizing calculations to support the information provided in the stormwater management plan.



30. Include at least one of the following site design measures in the project design: (a) direct hardscape and/or roof runoff onto vegetated areas, (b) collect roof runoff in cisterns or rain barrels for reuse, or (c) construct hardscape (driveway, walkways, patios, etc.) with permeable surfaces. Though only one site design measure is required, it is encouraged to include multiple site design measures in the project design. For additional information, refer to the C.3 Stormwater Handbook (June 2016) available online at:

[http://scvurppp-w2k.com/c3\\_handbook.shtml](http://scvurppp-w2k.com/c3_handbook.shtml)

31. Indicate on the grading plans the land area that will be disturbed. If one acre or more of land area will be disturbed, file a Notice of Intent (NOI) with the State Water Resources Control Board for coverage under the State General Construction Permit. The SWRCB will issue a Waste Discharge Identification (WDID) number. The WDID number shall be shown on the grading plans. The SWRCVB website is:

[www.waterboards.ca.gov](http://www.waterboards.ca.gov) > Programs > Stormwater > [Construction](#)

32. Demonstrate that the on-site drainage will be controlled in such a manner as to not increase the downstream peak flow for the 10-year and 100-year storm event or cause a public nuisance.
33. Submit **one copy** of the signed and stamped geotechnical report for the project.
34. Submit a plan review letter by the Project Geotechnical Engineer certifying that the geotechnical recommendation in the above geotechnical report has been incorporated into the improvement plan.
35. Submit an updated Credit/Usage Capacity Tracking Sheet for the Stanford University East Campus C.3 Regional Stormwater Capture Facility.

#### Environmental Health

36. **Prior to issuance of a development permit**, obtain and provide a water connection letter from Stanford Utilities stating it has the ability to provide potable water to the proposed development.
37. **Prior to issuance of a development permit**, provide a 'will serve' letter from Stanford Utilities addressing sanitary sewer capacity and its ability to provide service to the proposed development.

#### Fire Marshal's Office

NOTE- The review of this project was for Fire Land Use ONLY, further review including Fire Life Safety review will be conducted at Building Permit submittal.

#### FIRE PROTECTION WATER

IMPORTANT: Fire protection water system shall be installed, functioning and inspected prior to approval of the foundation. System shall be maintained in good working order and accessible throughout construction. A stop work order may be placed on the project if the required hydrant systems are not installed, accessible, and/or functioning.

38. FIRE-FLOW: The minimum fire-flow shall be based upon the final size of the structure shown on the building permit set of drawings to meet Appendix B of the CFC. The flow is to be recorded within 1 year and show the available gpm at 20 psi.
- A. At the time of plan submittal for building permit, provide written verification from the water company that this condition can be satisfied.
  - B. If an existing approved water system is within 300 ft. of the property line, extension to site is required, provided it is feasible to do so. Contact local water purveyor as soon as possible. If the water company will not grant a water connection, submit official documentation from the water company to that effect.
  - C. Standard fire hydrant/s to meet CFC Appendix "C" and to be located within 400 ft. exterior path of travel to all portions of the structure.

#### FIRE DEPARTMENT ACCESS

39. General Requirements:

- A. These are minimum Fire Marshal standards. Should these standards conflict with any other local, state or federal requirement, the most restrictive shall apply.
- B. All required access roads, driveways, turnarounds, and turnouts shall be installed, and serviceable prior to approval of the foundation, and shall be maintained throughout construction. A stop work order may be placed on the project if required driving surfaces are not installed, accessible, and/or maintained at all times.

40. Fire Department Access shall comply with the following:

- A. Width: A clear drivable width of 20 ft. excluding shoulders.
- B. Vertical Clearance: Minimum vertical clearance of 13 ft. 6 in shall be maintained to building site (trim or remove, tree limbs, electrical wires, structures, and similar improvements) for access roads and driveways.
- C. Curve Radius: Plans to show minimum 30 ft. inside turn radius for curves and 50 ft. exterior turn radius.
- D. Grade: Maximum grade shall not exceed 15%.
- E. Surface: All driving surfaces shall be all-weather and capable of sustaining 75,000 pounds gross vehicle weight.
- F. Dead End Roads: Turnarounds shall be provided for dead end access roads in excess of 150 ft. in length. Acceptable turnaround shall comply with County Standard SD-16. All turnarounds shall have a slope of not more than 5% in any direction.
- G. Gates: Gates shall not obstruct the required width or vertical clearance of the driveway and may require a Fire Department Lock Box/Gate Switch to allow for fire department access. Installation shall comply with CFMO-A3.
- H. Address: Numbered address to be easily recognizable from the street.

41. MAINTENANCE: Fire protection water systems and equipment shall be accessible and maintained in operable condition at all times and shall be replaced or repaired where defective. Fire protection water shall be made available to the fire department.

Fire department access roads, driveways, turnouts, and turnarounds shall be maintained free and clear and accessible at all times for fire department use. Gates shall be maintained in good working order and shall remain in compliance with Fire Marshal Standard CFMO-A3 at all times.

### **CONDITIONS OF APPROVAL TO BE COMPLETED PRIOR TO OCCUPANCY OR FINAL INSPECTION**

#### Planning

42. For each 11,763 net square feet of academic space built, Stanford shall either: (1) provide 1 affordable housing unit on the Stanford campus; or (2) make an appropriate cash payment in-lieu of providing the housing unit equal to the “BMR” payment that the City of Palo Alto is charging to commercial development projects when the project is built. The payment shall be made to an escrow account established and maintained by the County.
43. All grading materials and stockpiled materials shall be removed and disposed at an approved location.
44. Following completion of construction, contact the Planning Department (Lulu Pang at 408-299-5718) **at least two weeks in advance** to set up an appointment to schedule a site visit to verify the development is per approved plans.

#### Land Development Engineering

45. Construct the improvements. Construction staking is required and shall be the responsibility of the developer.
46. Existing and set permanent survey monuments shall be verified by inspectors prior to final acceptance of the improvements by the County. Any permanent survey monuments damaged or missing shall be reset by a licensed land surveyor or registered civil engineer authorized to practice land surveying and they shall file appropriate records pursuant to Business and Professions Code Section 8762 or 8771 of the Land Surveyors Act with the County Surveyor.
47. Submit as-built plans. If there have been any changes to the stormwater management plan (e.g., a change in new/replacement impervious area, change in credit/capacity usage, etc.), submit an updated Credit/Usage Capacity Tracking Sheet with the as-built.
48. Preliminary plans indicate that the project will utilize in-lieu credits provided by the Stanford University East Campus C.3 Regional Stormwater Capture Facility (County No.

11044-17C3). At the time of application, the regional facility does not have sufficient capacity to cover the project; however, a permit application (DEV23-0612) has been submitted to expand the regional facility's capture area and treatment capacity. Prior to final sign-off, the expansion of the regional facility (DEV23-0612) shall be completed and fully operational (i.e., the regional facility expansion shall receive final sign-off).

Fire Marshal's Office

49. FIRE SPRINKLER SYSTEM: An approved NFPA 13 fire sprinkler system shall be installed throughout the structure.

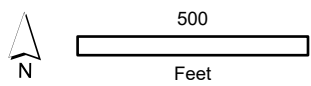
NOTE: The fire sprinkler system shall be installed and finalized by this office **prior to occupancy**. A separate permit shall be obtained from this office by a state licensed C-16 contractor **prior to installation**. Please allow for a minimum of 30 days for plan review of fire sprinkler plans by this office.





## Location and Vicinity Map

Record No. PLN23-036  
 APN 142-04-036  
 275 Sam McDonald Mall, Stanford  
 Stanford Varsity Tennis Center





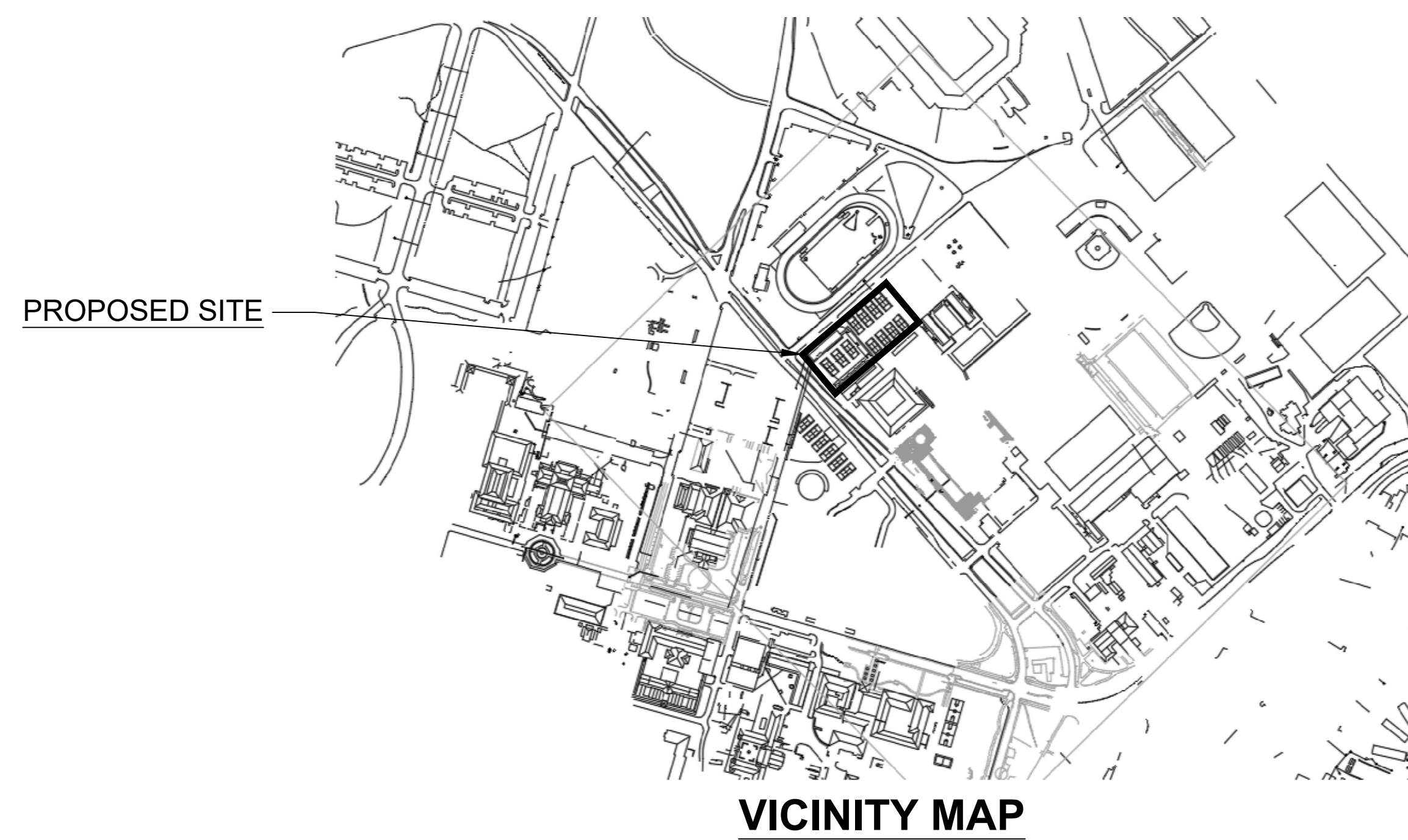
# STANFORD UNIVERSITY VARSITY TENNIS CENTER

PROJECT 5698

(09-345), 275 SAM MCDONALD MALL

SUBMITTAL DATE: APPROVAL DATE:

DRAWING STATUS  
SUBMITTAL  
COMPLIANCE RE-SUBMITTAL  
PERMIT APPLICATION  
CONSTRUCTION PERMIT  
RECORD DRAWINGS



## DRAWING INDEX

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A1-2B	GUP DEMO SURVEY REFERENCE
A1-2C	GUP DEMO REFERENCE
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C-6.0	STORMWATER MANAGEMENT PLAN
C-7.0	EROSION CONTROL PLAN
C-7.1	COUNTY BMP NOTES
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C-8.0	CONSTRUCTION SITE LOGISTICS AND SAFETY PLAN
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L-1.01	LANDSCAPE PLAN
L-1.02	LANDSCAPE PLAN
L-1.03	LANDSCAPE NOTES

## SITE DATA INFORMATION

### GENERAL

APN: 142-04-036  
 PARCEL SIZE: 580.15 AC  
 DEVELOPMENT DISTRICT: DAPER AND ADMINISTRATIVE  
 BUILDING/QUAD: 09-345  
 LAND USE DESIGNATION: ACADEMIC CAMPUS  
 SITE AREA: 162,756 SF

### PERCENTAGE OF SITE AREA:

LANDSCAPE: 72 %  
 CONCRETE PAVING: 28 %

### CBC BUILDING TYPE:

II-B

NUMBER OF NET  
 NEW PARKING SPACES: NONE

### ESTIMATED CUT AND FILL:

CUT: 1,575 CUBIC YARDS  
 FILL: 4,574 CUBIC YARDS  
 NET: 2,999 CUBIC YARDS IMPORT

## PROJECT DESCRIPTION:

**DEMOLITION OF CURRENT VARSITY TENNIS COURT FACILITY (09-380), TAUBE FAMILY TENNIS STADIUM (09-340), AND TAUBE TENNIS BACKCOURT BLEACHERS (09-381). CONSTRUCTION OF A NEW TENNIS CENTER BUILDING, REPLACEMENT AND RECONFIGURATION OF TENNIS COURTS, AND ASSOCIATED SITE DEVELOPMENT.**

### PROJECT MANAGER:

Mark Bonino  
 340 Bonair Siding Rd  
 Stanford, CA 94305  
 mbonino@stanford.edu

### DEFERRED SUBMITTALS

1. FIRE SPINKLERS
2. FIRE ALARM SYSTEM & FA CONTROL PANEL REPLACEMENT  
 ALARMS SHALL HAVE VOICE ACTIVATION PER CBC 907.5.2.2.

REVISION

DEPARTMENT OF PROJECT MANAGEMENT  
 340 Bonair Siding Rd  
 Stanford, CA 94305  
 TELEPHONE (650) 723-0022 FAX (650) 723-7444

TITLE SHEET

STANFORD UNIVERSITY  
 TENNIS STADIUM

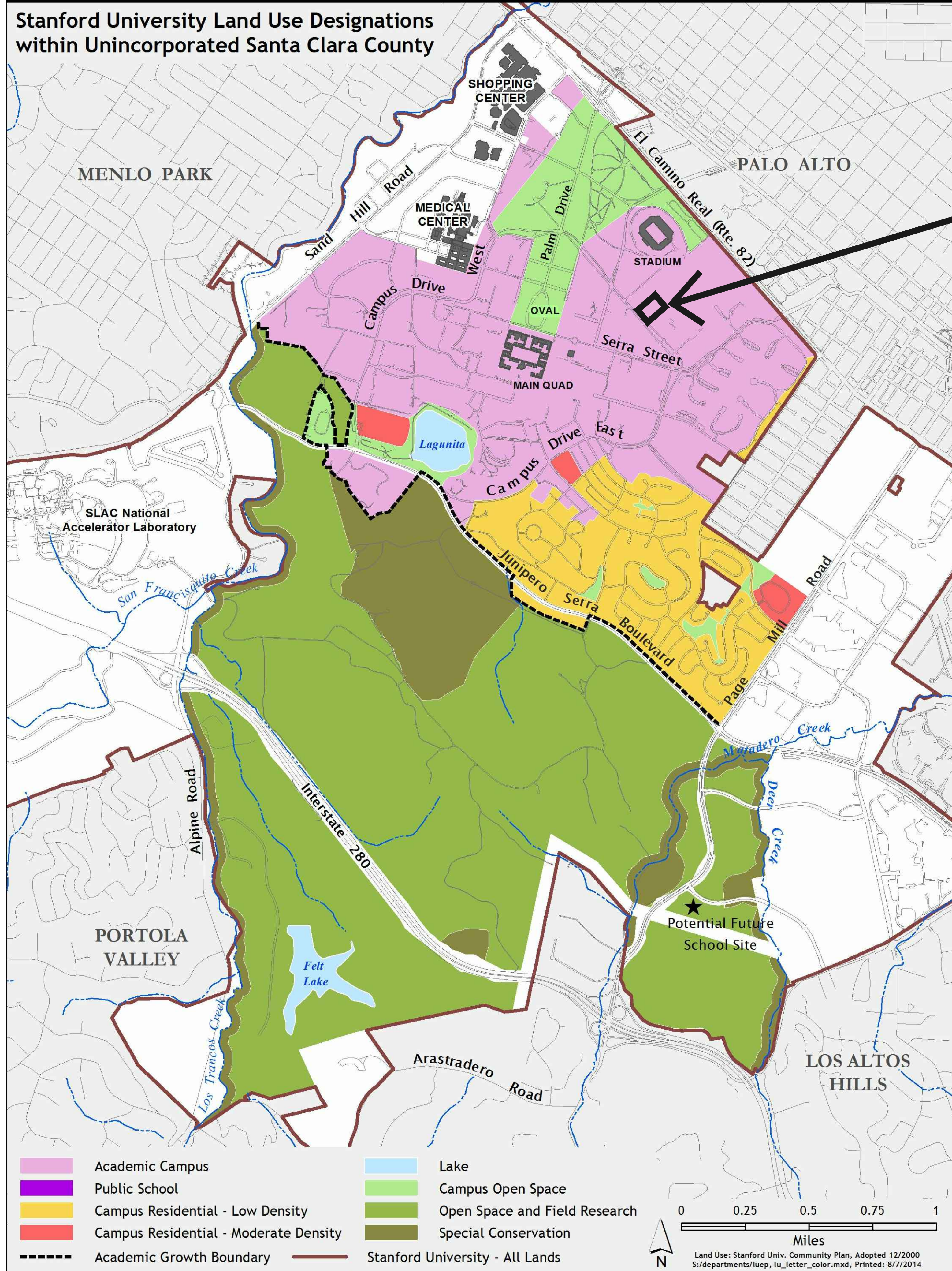
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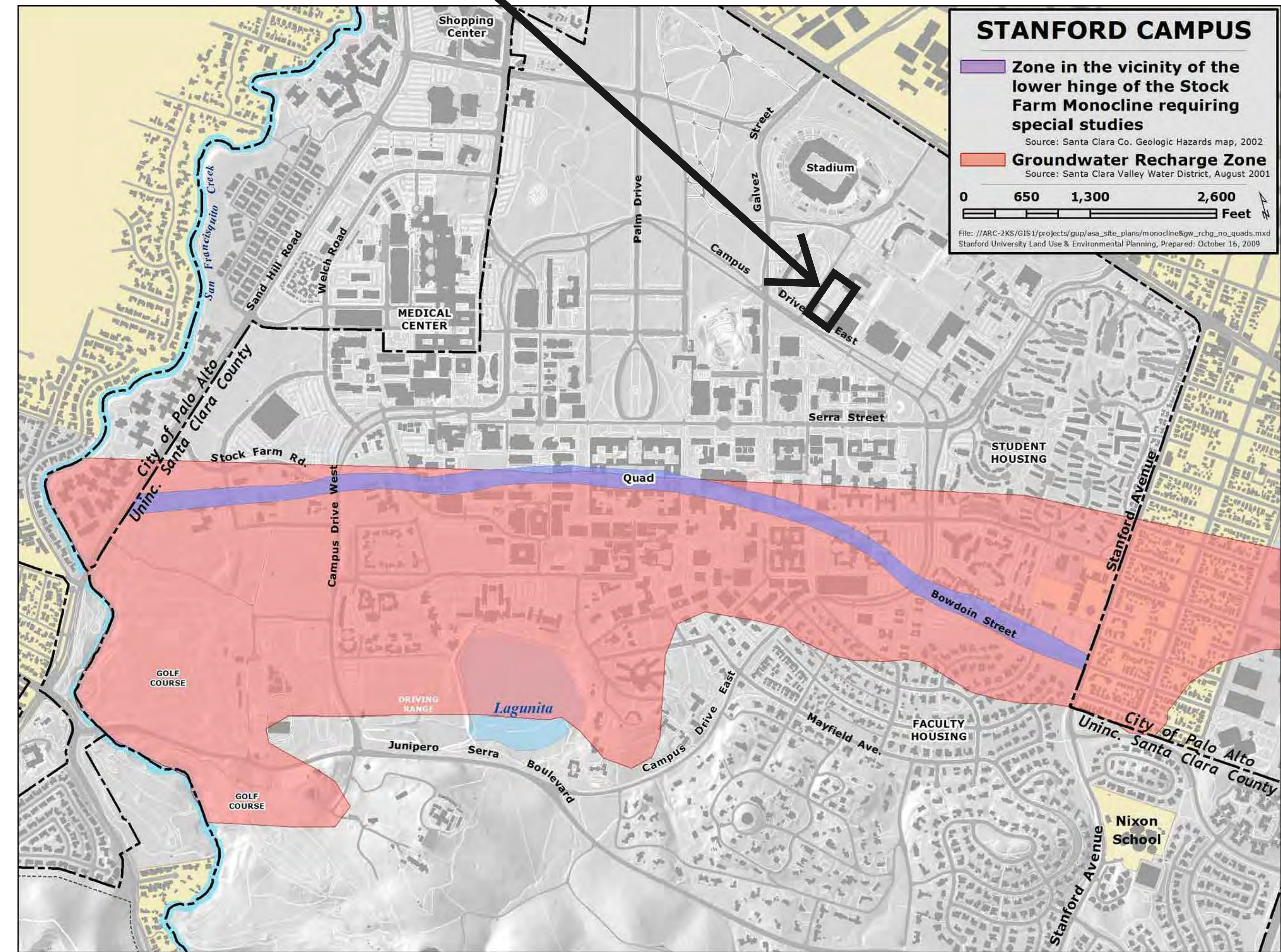
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GUP INFORMATION MAP



PROPOSED SITE





Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall, Stanford CA, 94305  
 Quad/ Bldg. Number: 09-345



ISSUES AND REVISIONS	
NO.	DESCRIPTION
01.27.2023	ASA SET
05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22012

SHEET TITLE  
**TENNIS CENTER  
DEMO SITE PLAN**

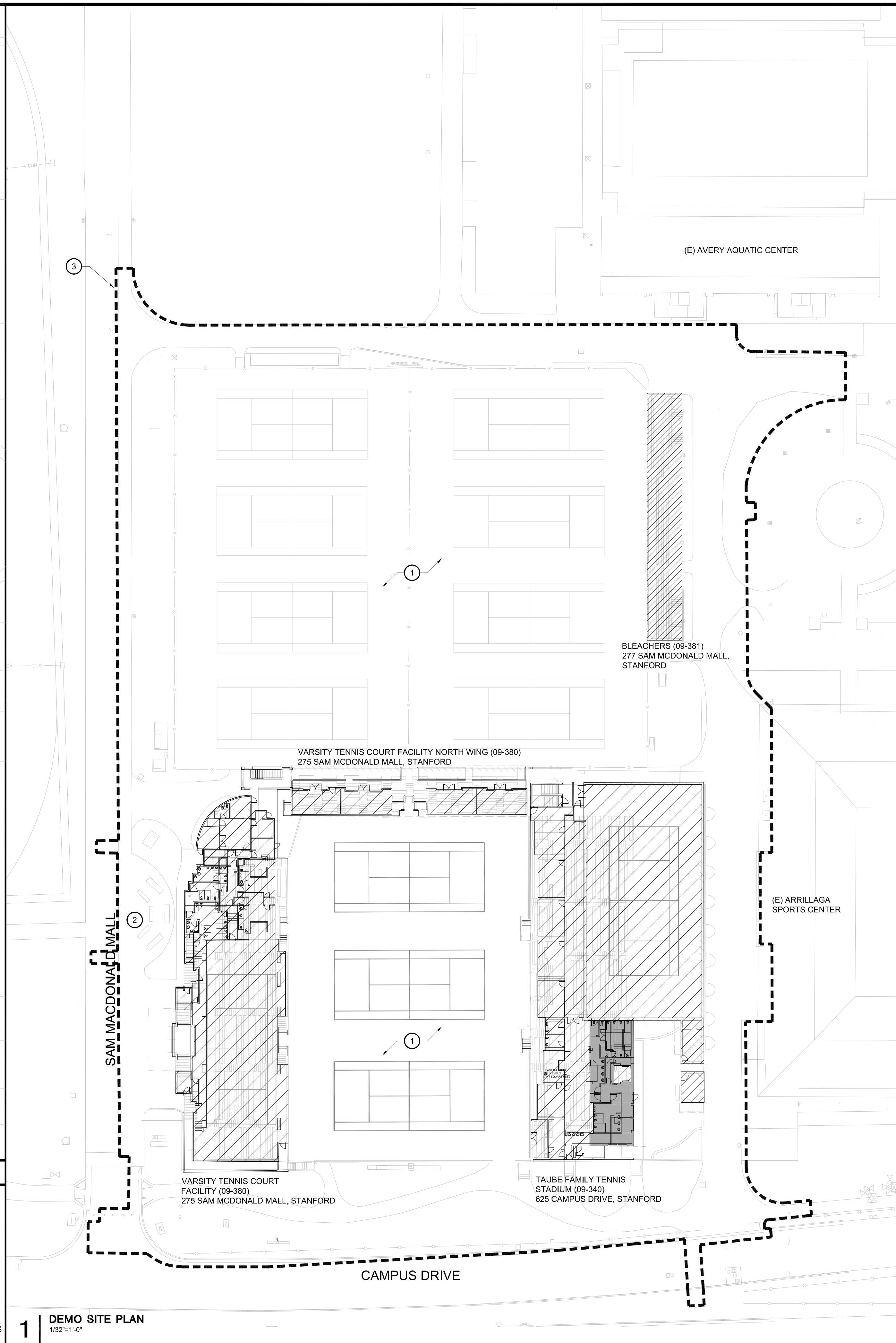
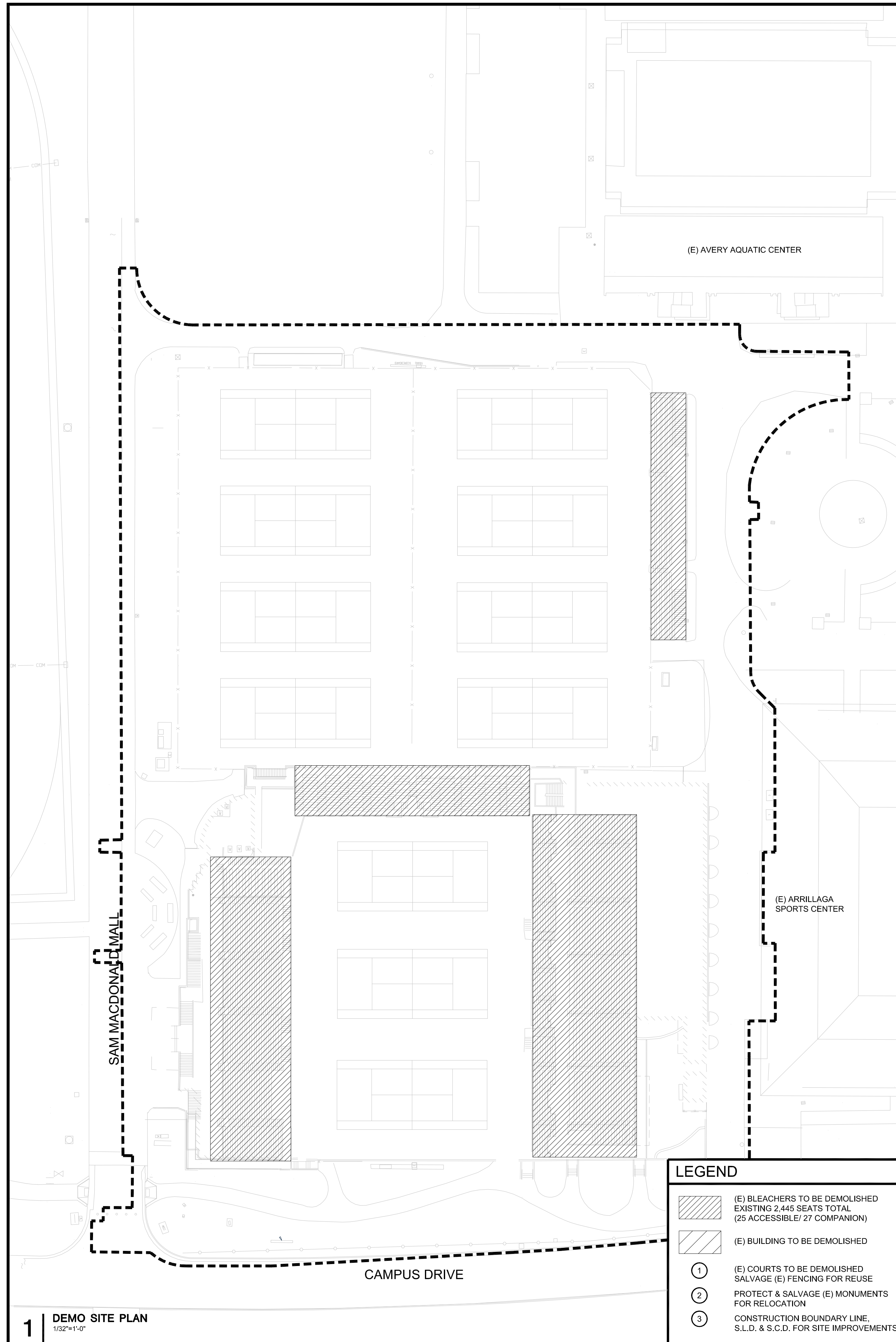
SCALE  
1/32" = 1'-0"



0 32 64

SHEET NUMBER

**A1-0**





Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA, 94305  
 Quad/ Bldg. Number: 09-345



ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	01.27.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22012

SHEET TITLE  
**TENNIS CENTER  
PROPOSED SITE PLAN**

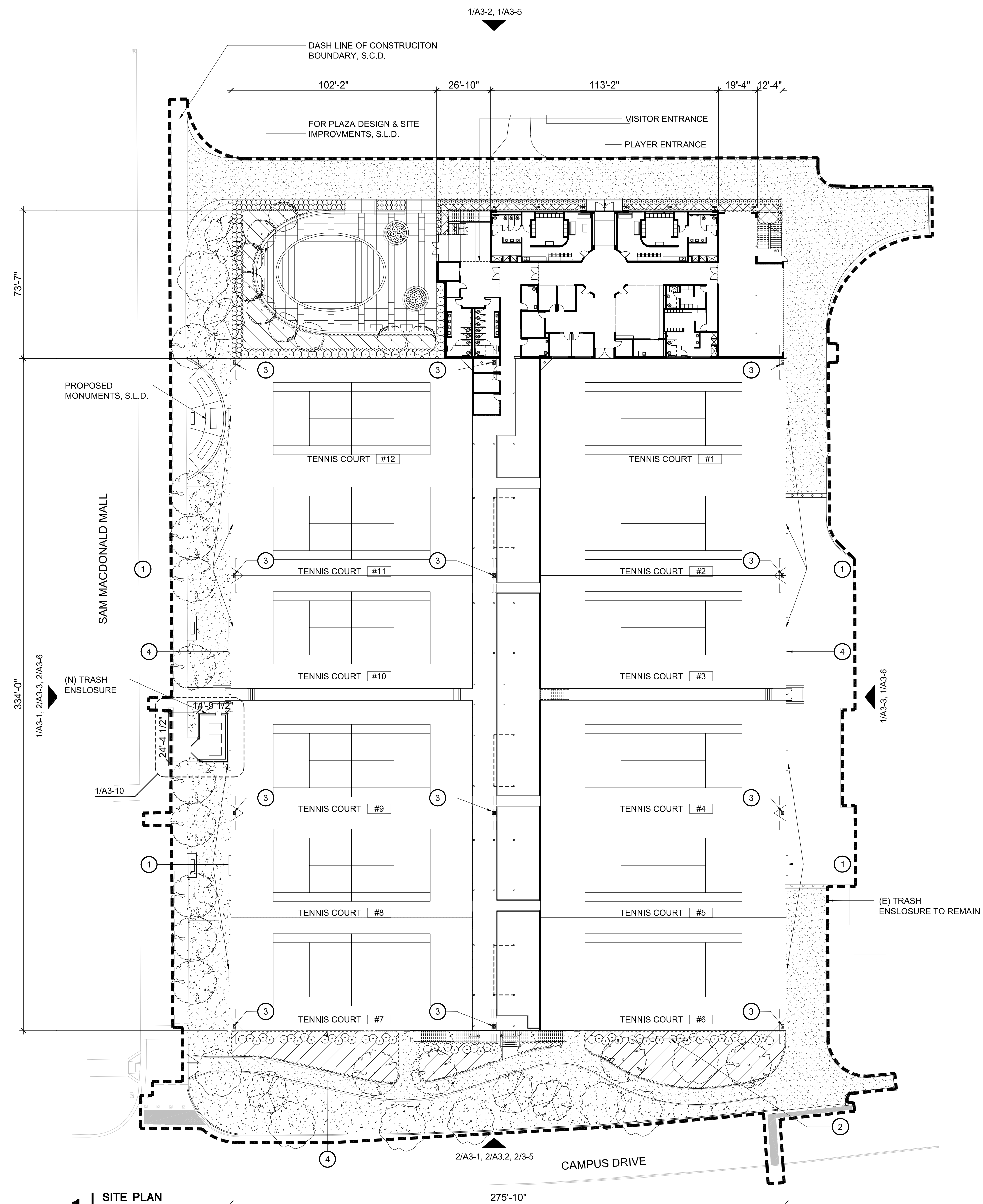
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SHEET NUMBER

A1-1

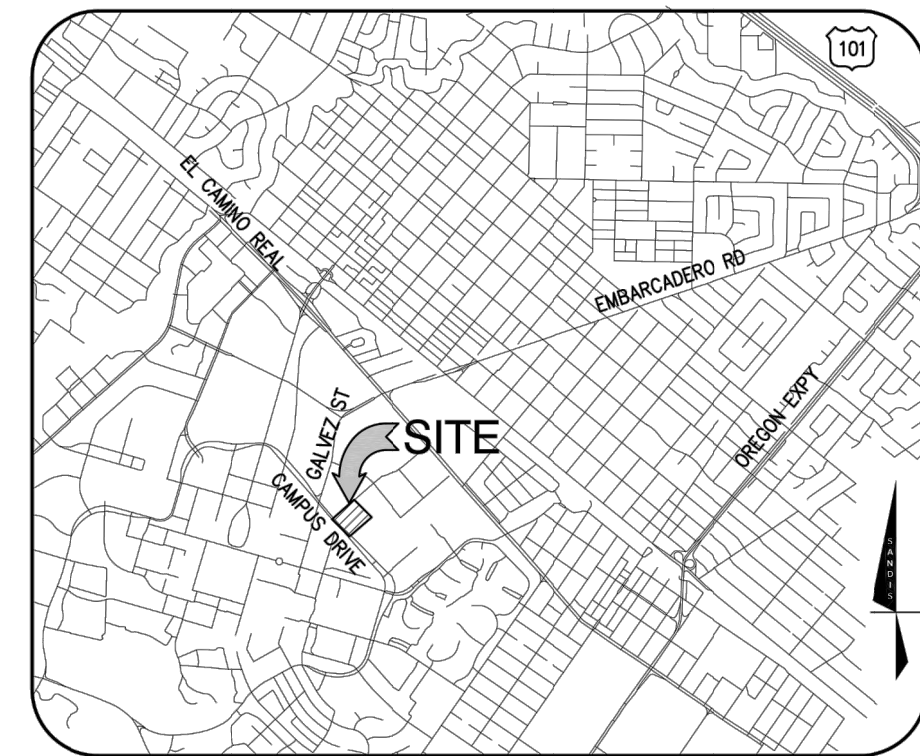


LEGEND	
①	SMALL ELECTRONIC SCOREBOARD AT THE END OF EACH COURT, MOUNTED AT FENCE
②	LARGE VIDEO BOARD SCOREBOARD FOR COURTS #1-6
③	80' TALL LIGHT POLE LOCATION
④	(N) FENCE
- - -	SITE LIMIT OF WORK, S.C.D.

**1 SITE PLAN**  
1/32"=1'-0"



Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA. 94305  
 Quad/ Bldg. Number: 09-345



**LEGEND**

- BUILDING OVERHANG
- EDGE OF PAVEMENT
- CURB LINE
- CURB & GUTTER LINE
- WALL
- CONTOURS
- RAIL
- FLOW LINE
- FENCE LINE
- IRRIGATION WATER
- LAKE WATER
- HOT WATER
- CHILLED WATER
- SD
- SS
- WTR
- G
- E
- CMN
- PAVEMENT
- CONCRETE
- FOUND SURVEY MONUMENT
- STORM DRAIN MANHOLE
- DRAIN INLET
- DRAIN INLET (ROUND)
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- WATER METER / BOX
- WATER VALVE
- BACKFLOW PREVENTOR
- WATER VALVE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- SEWAL
- POST INDICATOR VALVE
- CONTROL / VALVE BOX
- GAS METER
- GAS VALVE
- COMMUNICATIONS MANHOLE
- COMMUNICATIONS VAULT / PULLBOX
- ELECTRIC MANHOLE
- ELECTRIC VAULT / PULLBOX
- HARDSCAPE ELECTRIC LIGHT
- ELECTROLUER ON TOP OF POLE
- ELECTROLUER WITH MAST ARM
- STREET LIGHT PULLBOX
- MISCELLANEOUS MANHOLE
- MISCELLANEOUS PULLBOX
- MISCELLANEOUS CLEANOUT
- SIGN
- BOLLARD
- SPOT ELEVATION

**ABBREVIATIONS**

- AD - AREA DRAIN
- BFP - BACKFLOW PREVENTOR
- BLDC - BUILDING CORNER
- BOL - BOLLARD
- BOLL - BOLLARD
- BSW - BOTTOM OF WALL
- BSW - BOTTOM OF STAIR
- CHKSH - SURVEY CHECK SHOT
- CLF - CHAIN LINK FENCE
- CNPT - SURVEY CONTROL POINT
- COL - COLUMN
- COM-MH - COMMUNICATIONS MANHOLE
- COM-PB - COMMUNICATIONS PULLBOX
- CONC - CONCRETE
- DCK - DECK
- DD - DECK DRAIN
- DI - DRAIN INLET
- DW - DOMESTIC WATER
- EP - EDGE OF PAVEMENT
- EPB - ELECTRICAL PULLBOX
- FDC - FIRE DEPARTMENT CONNECTION
- FGD - FINISHED GRADE AT DOOR
- PH - FIRE HYDRANT
- FL - FLOW LINE
- FNTN - FOUNTAIN
- G - GROUND
- GM - GAS METER
- GR - DRAIN INLET GRATE
- GV - GAS VALVE
- HCR - ACCESSIBLE RAMP
- HE - HARDSCAPE ELECTRIC LIGHT
- IF - IRON FENCE
- IP - LIP OF GUTTER
- MISC-CO - MISCELLANEOUS CLEANOUT
- MISC-MH - MISCELLANEOUS MANHOLE
- MISC-PB - MISCELLANEOUS PULLBOX
- MISC-VLT - MISCELLANEOUS VAULT
- OH - BUILDING OVERHANG
- PE - PAVEMENT ELEVATION
- PF - PAVER ELEVATION
- PVI - POST INDICATOR VALVE
- EPN - ELECTRIC PANEL
- RNL - HANDRAIL / GUARDRAIL
- SDMH - STORM DRAIN MANHOLE
- SSCO - SANITARY SEWER CLEANOUT
- SSMH - SANITARY SEWER MANHOLE
- STL - STREET LIGHT
- STL-S - SINGLE-ARM STREET LIGHT
- STPB - STREET LIGHT PULLBOX
- SEWAL - SEWAL
- TC - TOP OF CURB
- TCOBC - AT CATCH BASIN
- TD - TRENCH DRAIN
- TOP - TOP OF SLOPE
- TOW - TOP OF WALL
- TRANS - TRANSFORMER
- TS - TOP OF STAIR
- VLT - VAULT
- WM - WATER METER
- WPB - WATER VAULT
- WV - WATER VALVE

**SURVEY NOTES**

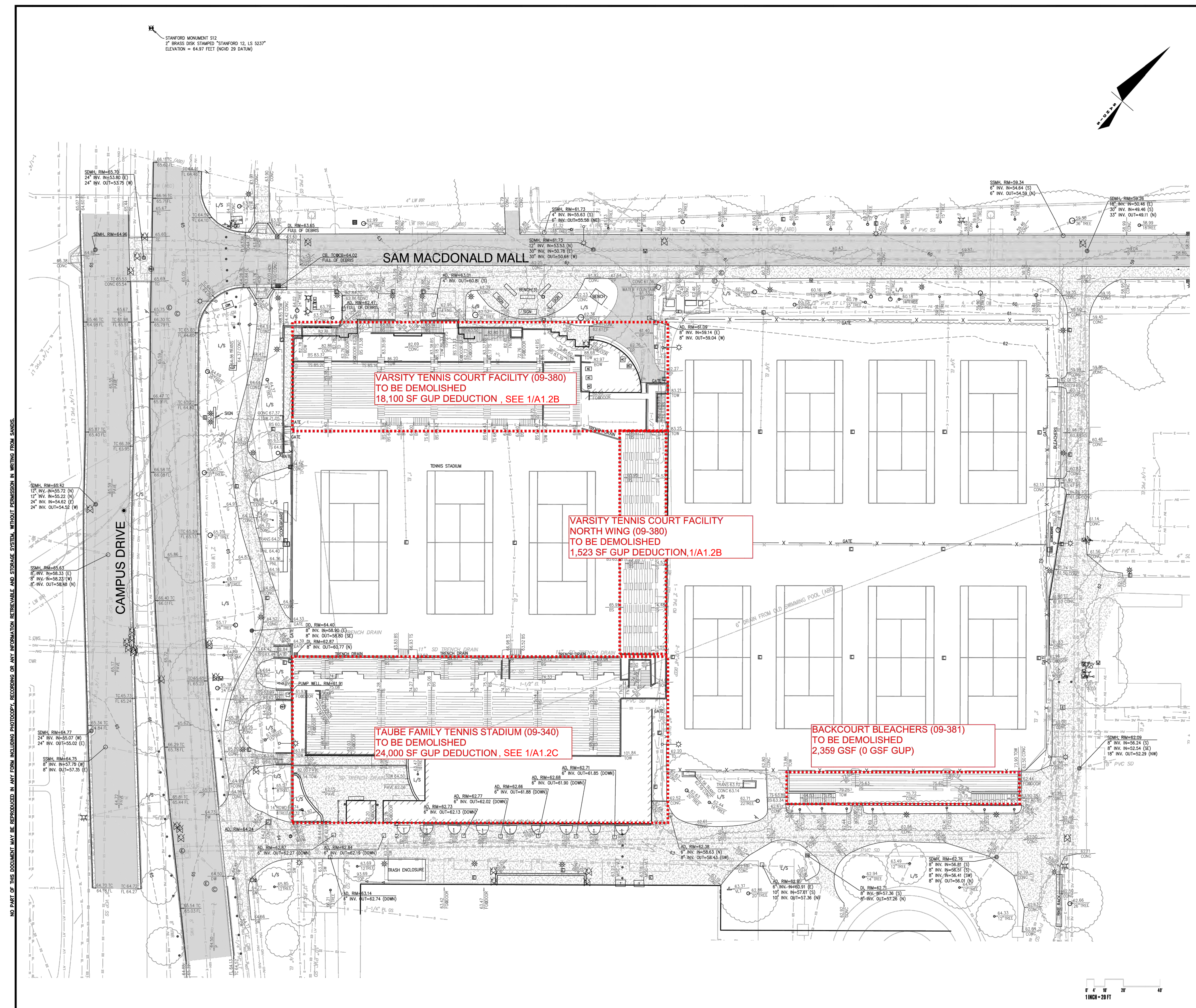
- ALL DISTANCES AND DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF.
  - DATES OF FIELD SURVEY: 08/09/21-08/13/21 AND 08/22/21.
  - HORIZONTAL CONTROL WAS BASED ON COORDINATES AS SHOWN IN BOOK 747 OF MAPS AT PAGE 44-48, SANTA CLARA COUNTY RECORDS. THE COORDINATES REFERENCED ON THIS MAP ARE IN CALIFORNIA ZONE II, US SURVEY FEET. VERTICAL CONTROL WAS BASED ON STANFORD MONUMENT.
- BENCHMARK**  
 THE ELEVATION REFERENCE FOR THIS SURVEY IS A STANFORD MONUMENT 512, WHICH IS A SET OF BRASS DISK STAMPED "STANFORD 12, LS 5337" IN MONUMENT WELL IN MIDDLE OF A TRAFFIC ISLAND ON CAMPUS DRIVE EAST BETWEEN GALEZ STREET AND SAM MCDONALD MALL. PER R.O.S. 747 M 40-48.  
 ELEVATION= 64.97 FEET (NGVD 29 DATUM)
- UNDERGROUND UTILITY NOTE**  
 THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THIS SURVEY.
- SURVEYOR'S STATEMENT**  
 THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYORS' ACT AT THE REQUEST OF STANFORD UNIVERSITY IN JULY, 2021.

DATE: 09/16/21  
 SCALE: 1"=20'  
 DRAWN BY: N.M.  
 CHECKED BY: N.B.B.  
 PROJECT No.: 220148

NO. DATE DESCRIPTION  
 01.27.2023 ASA SET  
 05.03.2023 ASA RESUBMITTAL #1

ISSUES AND REVISIONS

PROJECT NUMBER: 22012  
 SHEET TITLE: TENNIS CENTER GUP DEMO SURVEY REFERENCE  
 SCALE: NTS  
 SHEET NUMBER: 1



**SANDIS**  
 BUILD ON.  
 SANDIS.NET

No.	REVISION	DATE	BY

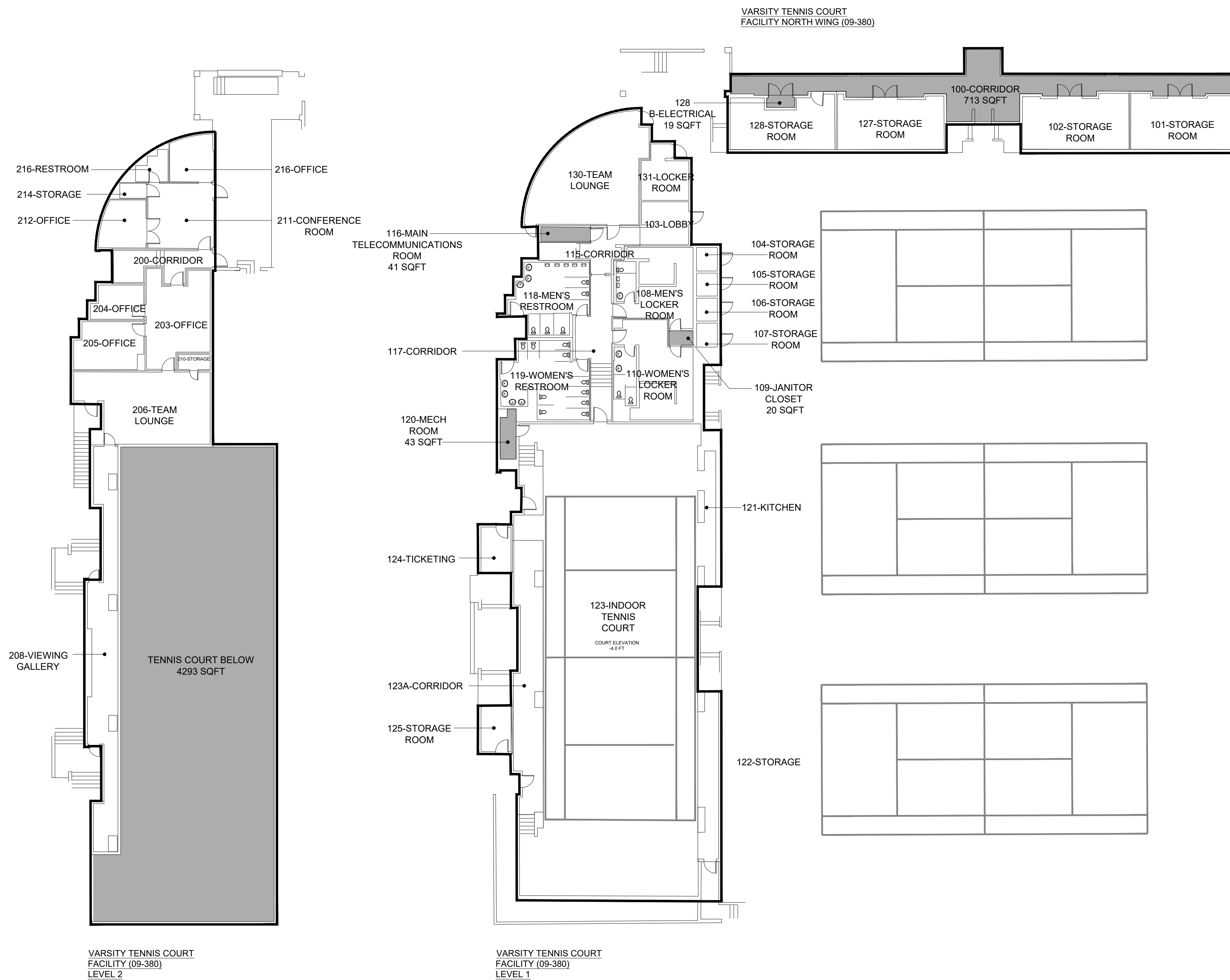
VARSITY TENNIS STADIUM  
 STANFORD CALIFORNIA

TOPOGRAPHIC SURVEY  
 SHEET 1

File: I:\Sandis\11\220148\_1\_SURVEY\_1\_MAPPING\_DELIVERABLES\TOPO220148 - TENNIS STADIUM - TOPO.dwg Date: November 16, 2021 - 1:11 PM, nmjgll

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT WRITTEN CONSENT OF THE ARCHITECT





Varsity Tennis Court Facility (09-380)  
LEVEL 2

Varsity Tennis Court Facility (09-380)  
LEVEL 1

DEMO GUP

	CBC 502 BUILDING AREA (SF)	GOVERNMENT CODE 65995-65998 (SF)
<b>Varsity Tennis Court Facility (09-380)</b>		
<b>FLOOR 1 GROSS AREA</b>	15,323	15,323
<b>EXEMPTIONS</b>		
109 Janitor Closet		(20)
116 Main Telecommunication Room		(41)
120 Mechanical Room		(43)
<b>SUBTOTAL FLOOR 1</b>	<b>15,323</b>	<b>15,219</b>
<b>FLOOR 2 GROSS AREA</b>	7,174	7,174
<b>EXEMPTIONS</b>		
Open to Below	(4,293)	(4,293)
<b>SUBTOTAL FLOOR 2</b>	<b>2,881</b>	<b>2,881</b>
<b>TOTAL Varsity Tennis Facility</b>	<b>18,204</b>	<b>18,100</b>
<b>Varsity Tennis - North Wing (09-380)</b>		
<b>FLOOR 1 GROSS AREA</b>	2,255	2,255
<b>EXEMPTIONS</b>		
100 Corridor (exterior)	(713)	(713)
128A Electrical Room		(19)
<b>SUBTOTAL FLOOR 1</b>	<b>1,542</b>	<b>1,523</b>
<b>TOTAL Varsity Tennis - North Wing</b>	<b>1,542</b>	<b>1,523</b>
<b>TOTAL Taube Family Tennis Stadium (09-340)</b>	24,000	24,000
SEE A1.2B FOR SU SANTA CLARA COUNTY GENERAL USE PERMIT [1989], ANNUAL REPORT #12		
<b>TOTAL DEMOLITION</b>	<b>43,746</b>	<b>43,623</b>

STANFORD UNIVERSITY

Project Name: Varsity Tennis Center  
Project Address: 275 Sam McDonald Mall,  
Stanford CA. 94305  
Quad/ Bldg. Number: 09-345



ISSUES AND REVISIONS

NO.	DATE	DESCRIPTION
	01.27.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22012

SHEET TITLE  
**TENNIS CENTER  
GUP DEMO SURVEY REFERENCE**

SCALE  
AS NOTED

PROJ NORTH

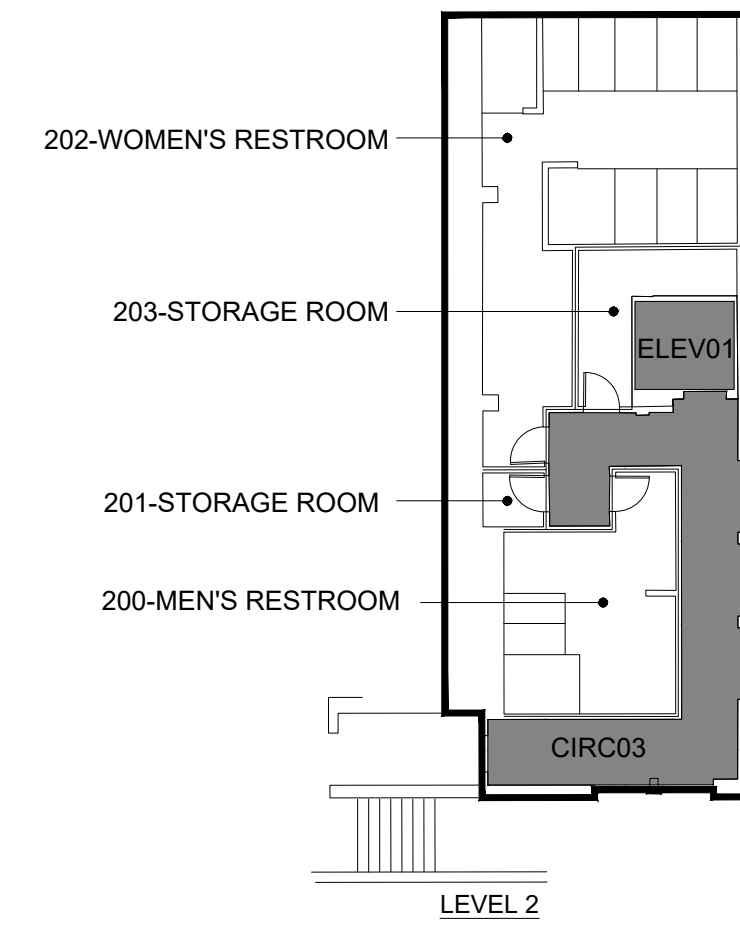
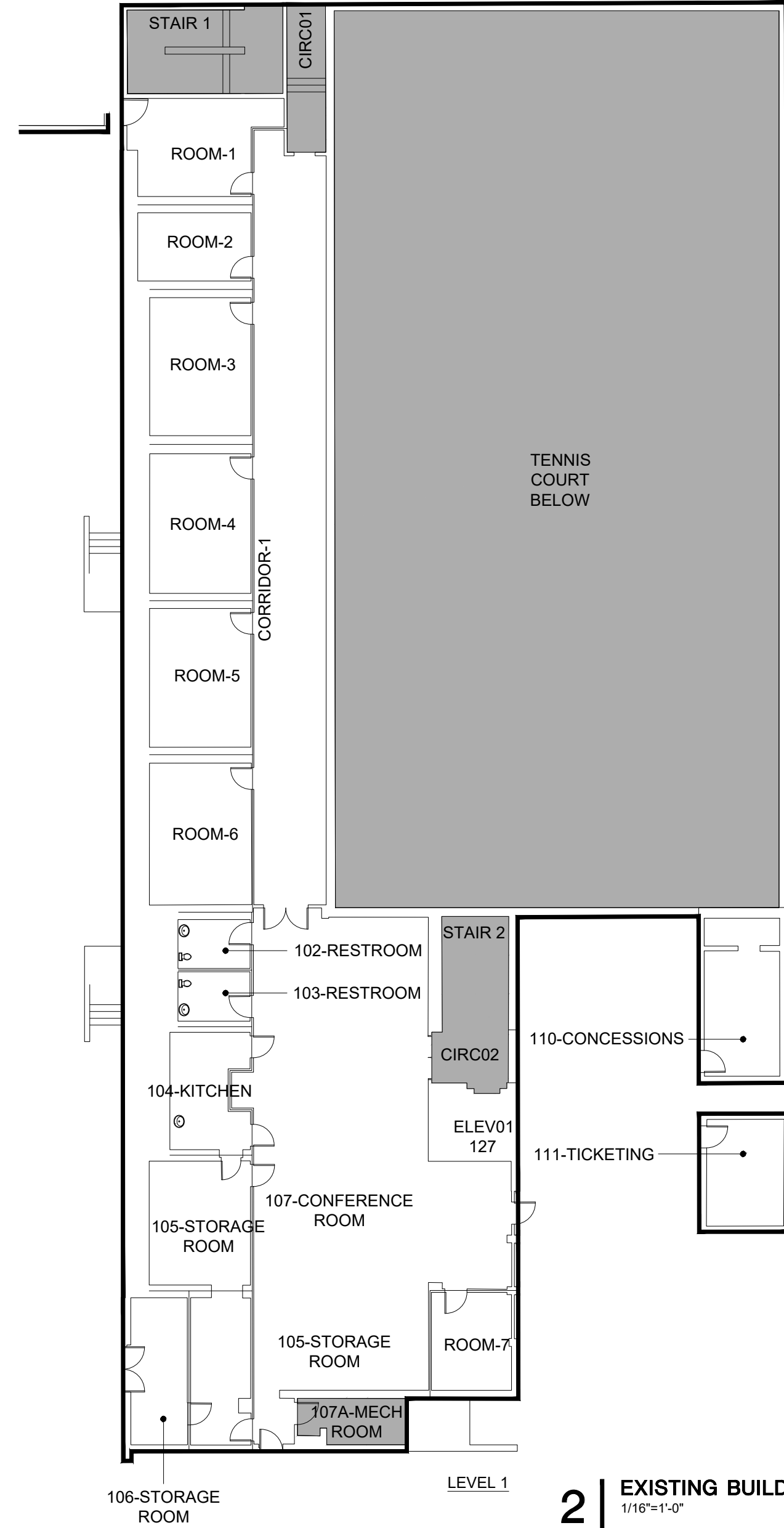
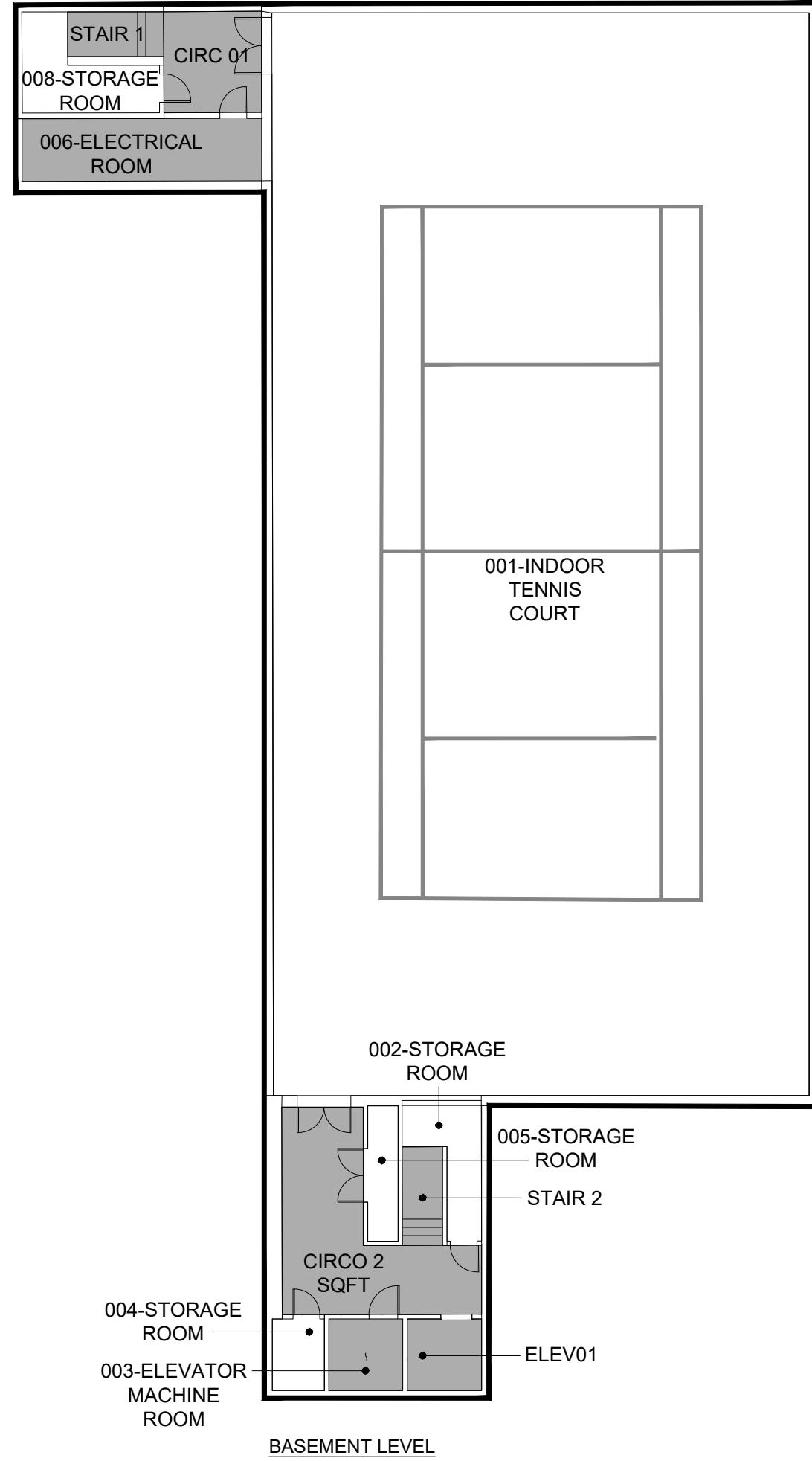
SHEET NUMBER

A1-2B

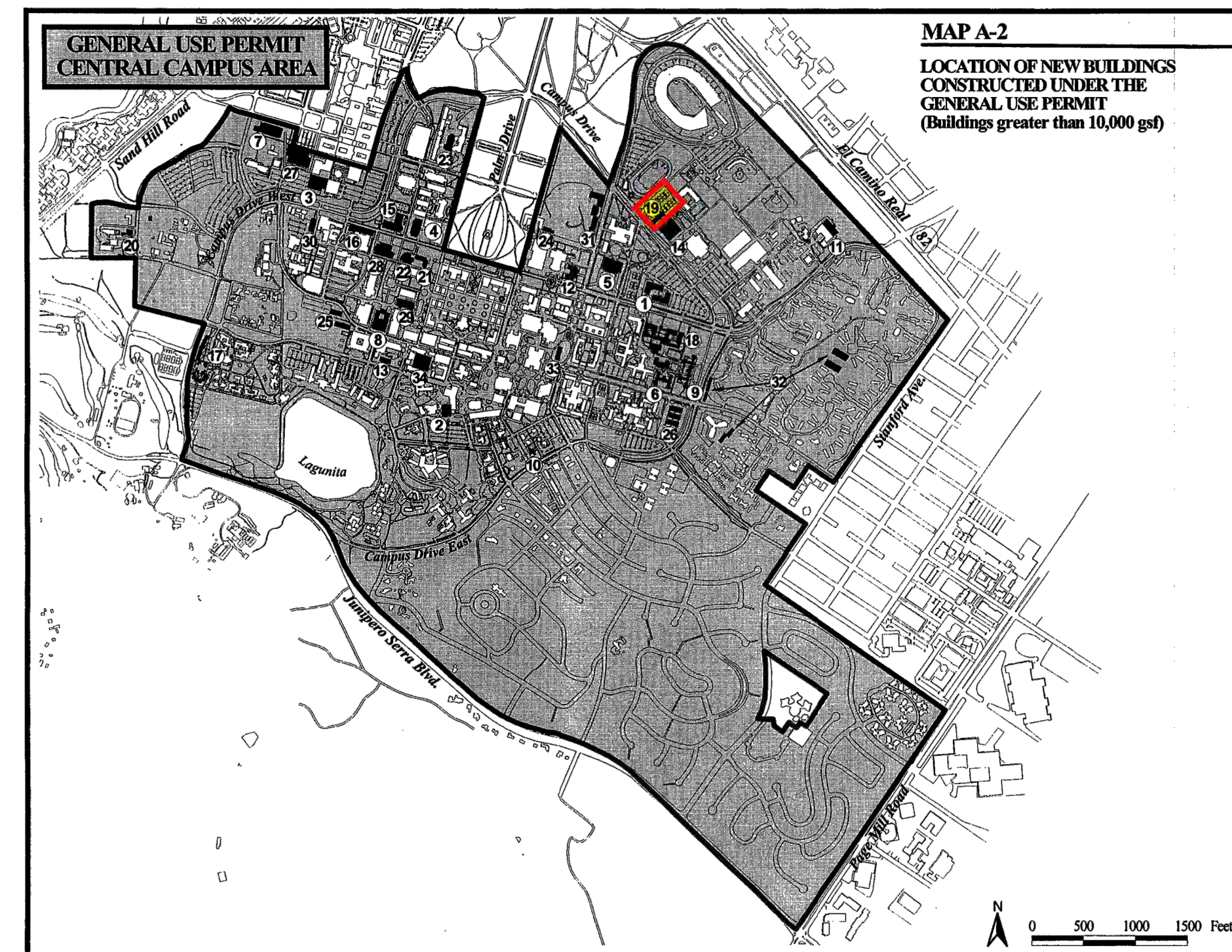
ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT WRITTEN CONSENT OF THE ARCHITECT



Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA. 94305  
 Quad/ Bldg. Number: 09-345



**2** EXISTING BUILDING DEMO GUP EXHIBIT- TAUBE FAMILY TENNIS STADIUM (09-340)  
 1/16"=1'-0"



**1** STANFORD, SANTA CLARA COUNTY GENERAL USE PERMIT [1989]  
 ANNUAL REPORT #12, APPENDIX A, MAP A-2 COMPLETED PROJECTS, 1 SEPTEMBER 1999 - 31 AUGUST 2000

KEY TO MAP A - 2.  
 (buildings than 10,000 gsf or larger)

Fiscal year	Project	Net size (gsf)	Subtotal	
Annual Report #1 (1988-89)	1 Serra Complex	84,000		
	2 Tressider Expansion	10,000		
	3 RAF II	49,000		
	4 Gilbert Biology	100,000		
	5 Ford Field House demo Ryan Lab	67,000 (22,476)	287,524	
Annual Report #2 (1989-90)	6 Kimball demo Manzanita Trailers	60,500 (20,768)		
	7 MSLSMRS	112,567		
	8 Green Earth Sciences demolition	77,000 (40,487)	188,812	
	Annual Report #3 (1990-91)	9 Golf Maintenance Shed	4,370	
Annual Report #4 (1991-92)	10 Manzanita II	63,000		
	demo Manzanita Trailers	(38,704)		
	HEPL office space	5,000	33,666	
Annual Report #5 (1992-93)	12 Econ/CEPR	45,000	96,000	
	Annual Report #5 (1992-93)	13 HD&S Shop	2,437	
	14 Thornton Engineering	11,500		
	14 Arrillaga Family Sports Center	107,415	121,352	
Annual Report #6 (1993-94)	Annual Report #6 (1993-94)	15 Econ/CEPR addition	2,450	
	16 Gates Computer Science	160,800		
	16 CIS Extension	53,000	216,250	
Annual Report #7 (1994-95)	Annual Report #7 (1994-95)	17 HS&S Shop II	5,575	
	HEPL Annex II	5,000		
	Governor's Corner	105,584	116,159	
Annual Report #8 (1995-96)	Annual Report #8 (1995-96)	18 GP-B Modular	8,640	
	demo old GP-B modular	(6,224)		
	demo old Ginzton modular	(2,880)		
	18 Schwab Center	158,000		
	demo Manzanita Trailers	(50,967)	24,000	
20 ESF Annex	6,500	137,069		

ISSUES AND REVISIONS

NO.	DATE	DESCRIPTION
	01.27.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22012

SHEET TITLE  
TENNIS CENTER  
GUP DEMO REFERENCE

SCALE  
NTS

SHEET NUMBER

A1-2C

Stanford University  
 Santa Clara County  
 General Use Permit  
 Annual Report #12

1 September, 1999 - 31 August, 2000

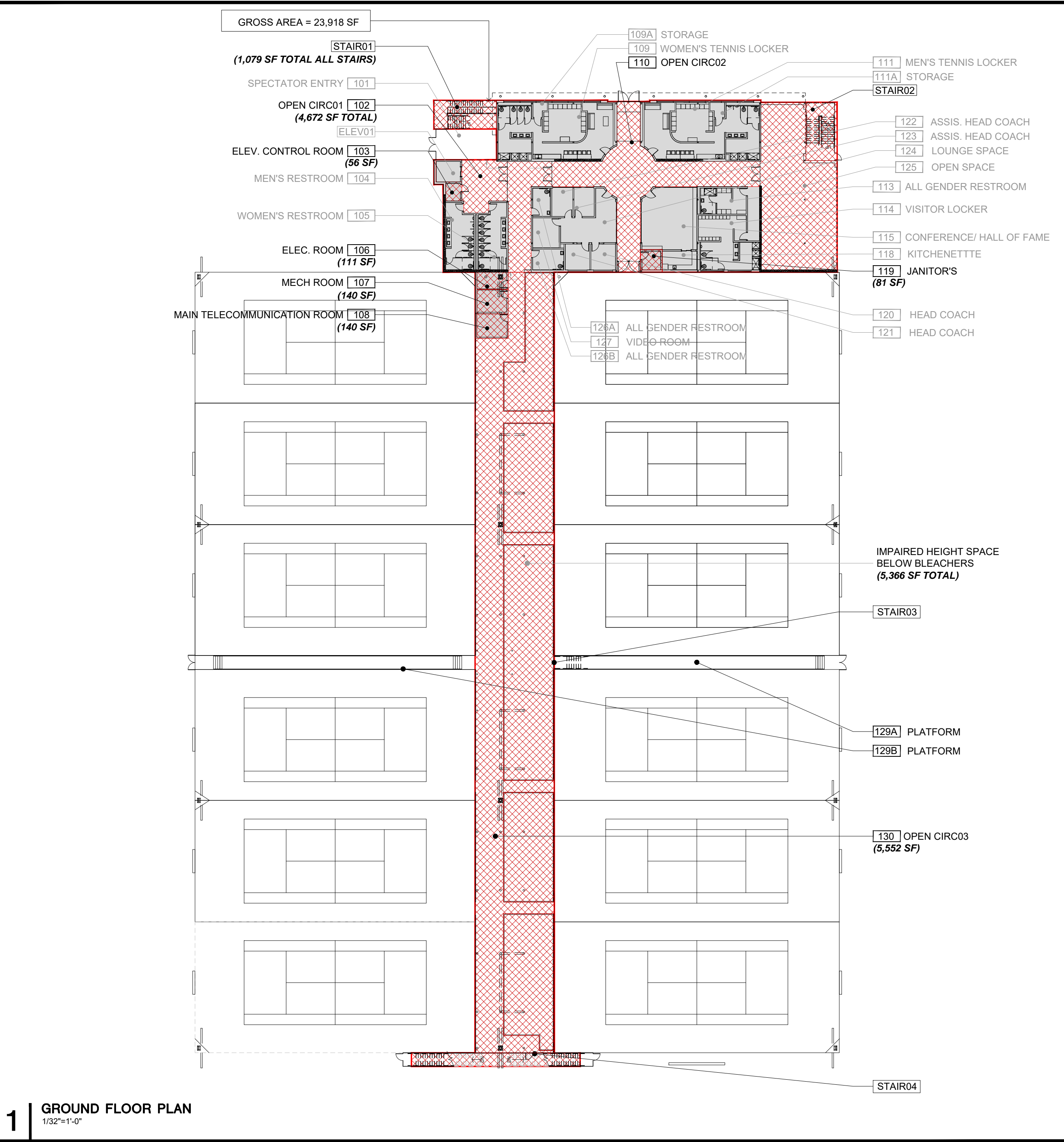
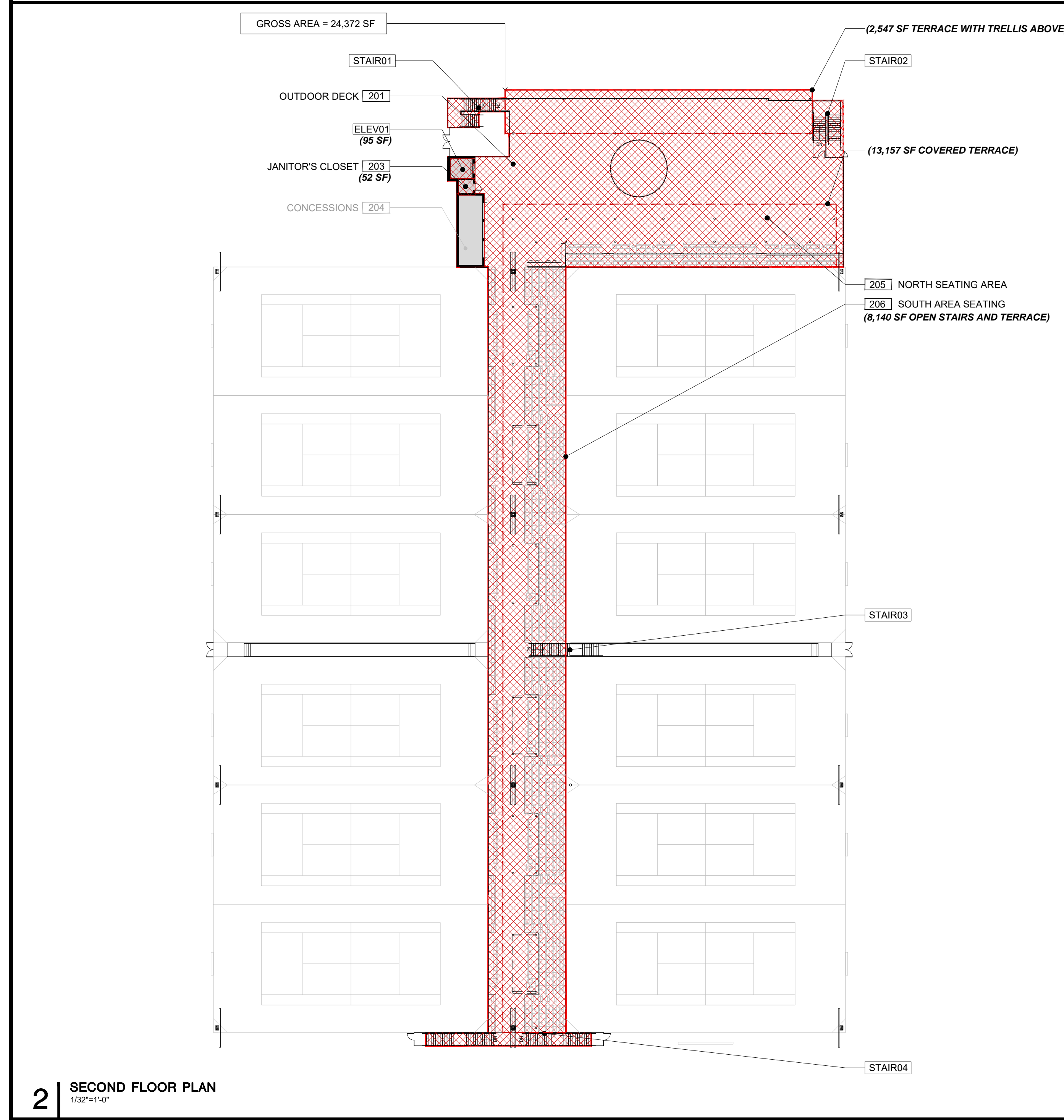


Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA. 94305  
 Quad/ Bldg. Number: 09-345



LEGEND	
	GUP AREA
	EXEMPT (INTERIOR AREA)
	EXEMPT COVERED (EXTERIOR) ARCADE AREA

PROPOSED GUP CALC		
	CBC 502 BUILDING AREA (SF)	GOVERNMENT CODE 65995-65998 (SF)
<b>Varsity Tennis Court Facility (09-345)</b>		
<b>FLOOR 1 GROSS AREA</b>	<b>23,917</b>	<b>23,917</b>
<b>EXEMPTIONS</b>		
103 Elevator Control Room		(56)
106 Electrical Room		(111)
107 Mechanical Room		(140)
108 Main Telecommunication Room		(140)
119 Janitor's Closet		(81)
Open Circ03		(4,568)
Impaired head height space	(6,350)	(6,350)
Arcade/ Open Space		(4,672)
Open Stairs	(1,079)	(1,079)
<b>SUBTOTAL FLOOR 1</b>	<b>16,488</b>	<b>6,720</b>
<b>FLOOR 2 GROSS AREA</b>	<b>24,372</b>	<b>24,372</b>
<b>EXEMPTIONS</b>		
202 Elevator		(95)
203 Janitor's Closet		(52)
Covered Terrace		(13,157)
Open Trellis	(2,547)	(2,547)
Uncovered Terrace/ Stairs	(8,140)	(8,140)
<b>SUBTOTAL FLOOR 2</b>	<b>13,685</b>	<b>381</b>
<b>TOTAL VARSITY COURT FACILITY</b>	<b>30,173</b>	<b>7,101</b>
<b>TOTAL GUP AREA SUMMARY</b>		
PROPOSED GUP AREA		<b>7,101</b>
DEMOLITION GUP AREA (REFER TO A1.2C FOR TOTAL DEMO GUP CREDIT)	43,623	
<b>TOTAL GUP AREA</b>	<b>(36,522)</b>	



ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
01	01.27.2023	ASA SET
05	03.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22012

SHEET TITLE  
**TENNIS CENTER  
GUP PROPOSED**

SCALE  
1/32" = 1'-0"

PROJ NORTH

SHEET NUMBER

A1-3





ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
01	01.27.2023	ASA SET
05	03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22012

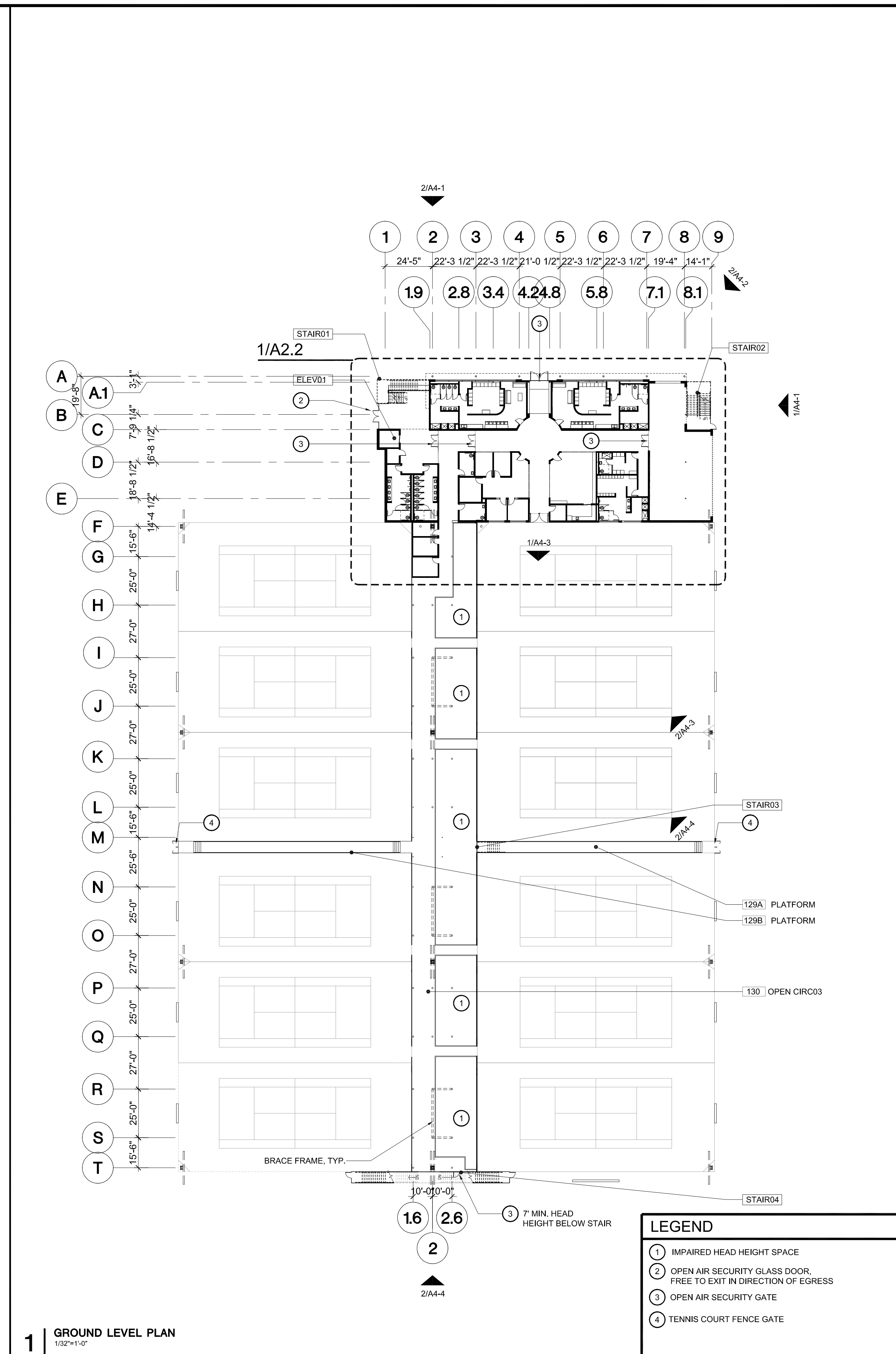
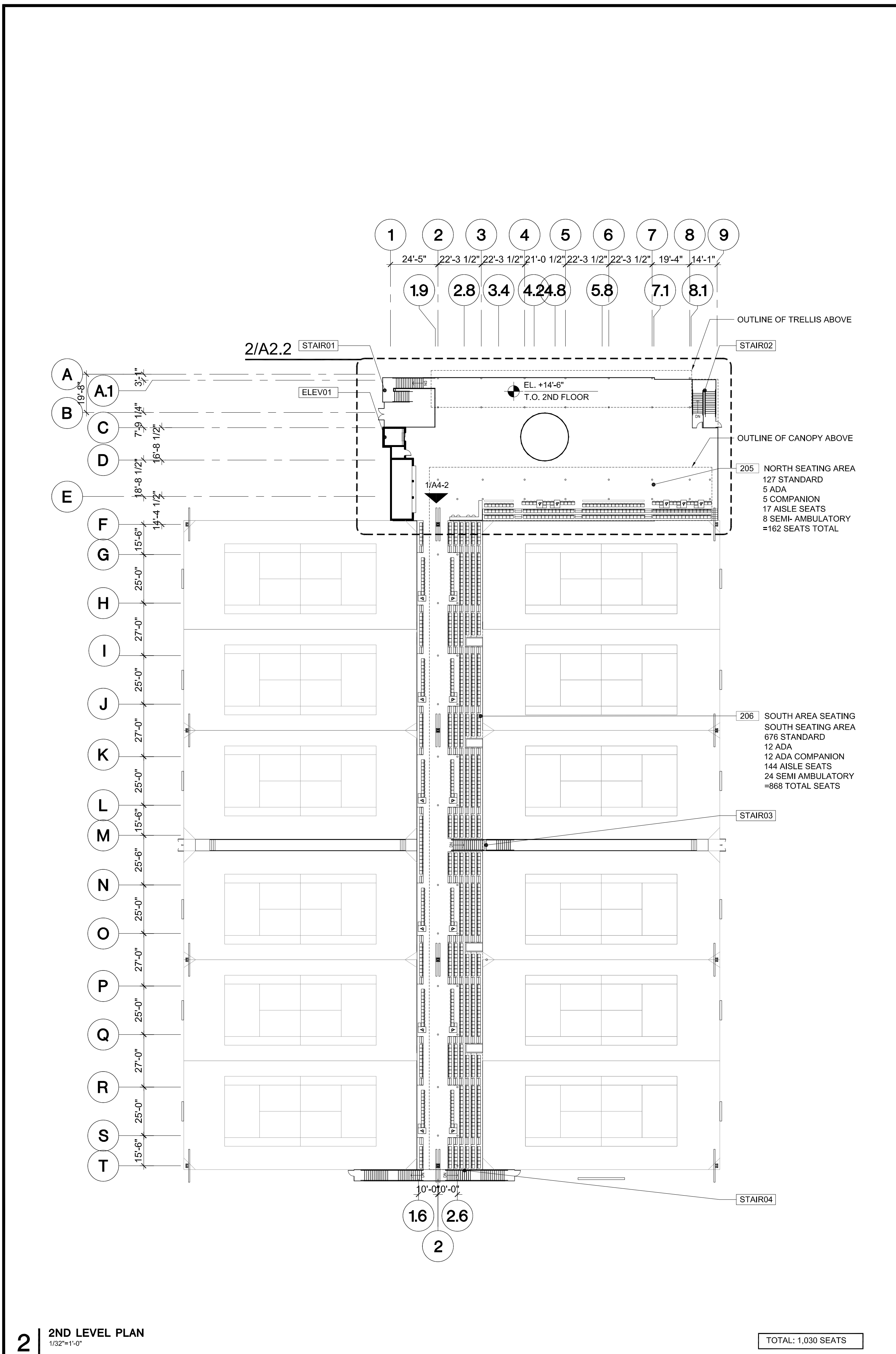
SHEET TITLE  
**TENNIS CENTER  
GROUND & SECOND FLOOR PLAN**

SCALE  
1/32" = 1'-0"

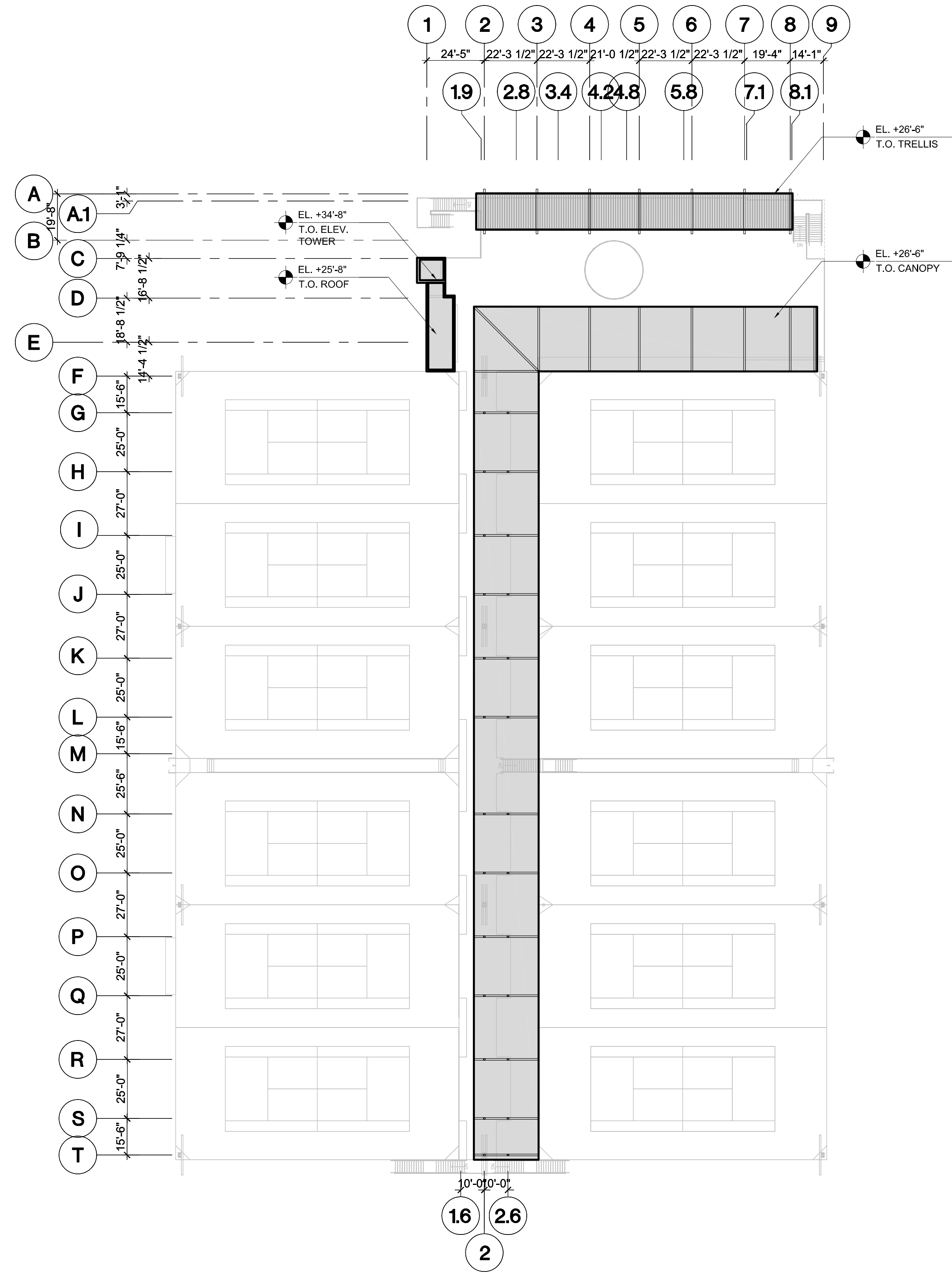
PROJ NORTH

SHEET NUMBER

A2-0



Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA, 94305  
 Quad/ Bldg. Number: 09-345



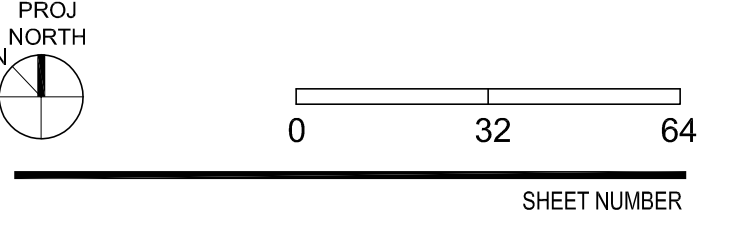
**1** ROOF LEVEL PLAN  
 1/32"=1'-0"

ISSUES AND REVISIONS	
NO.	DESCRIPTION
01.27.2023	ASA SET
05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
 22012

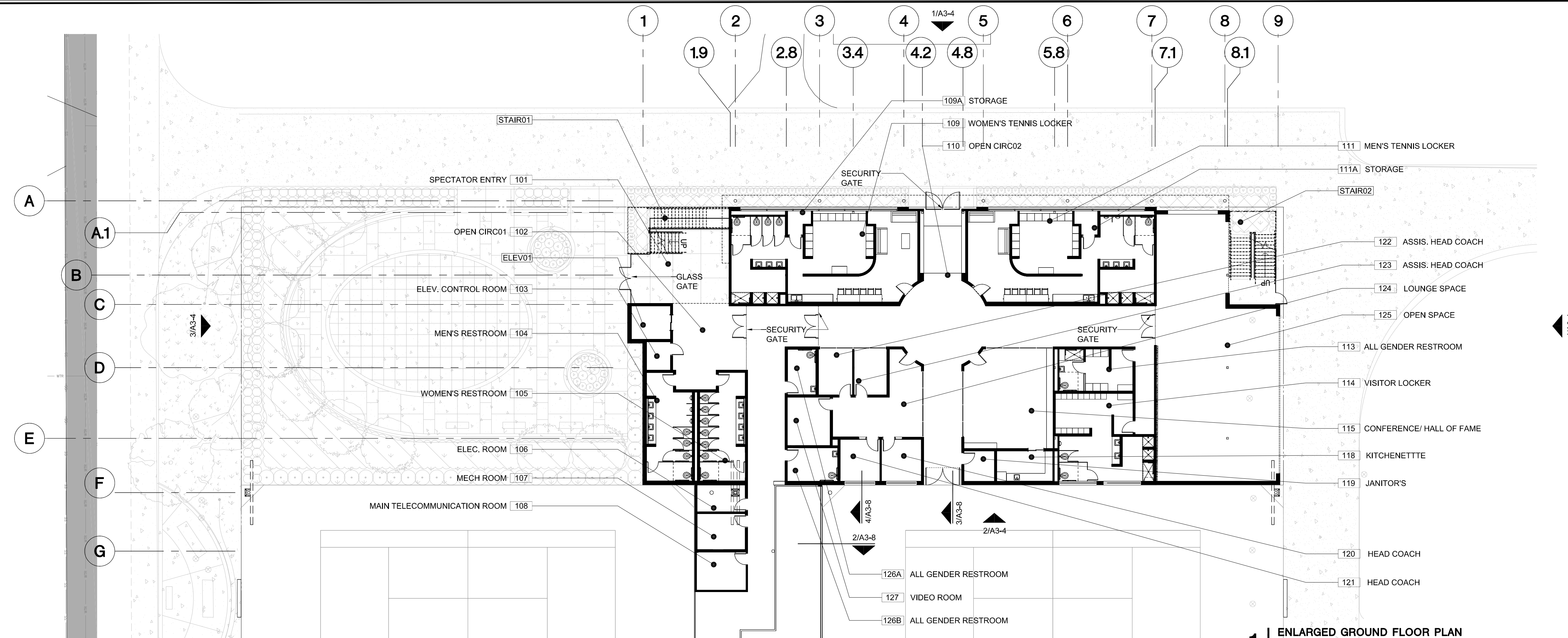
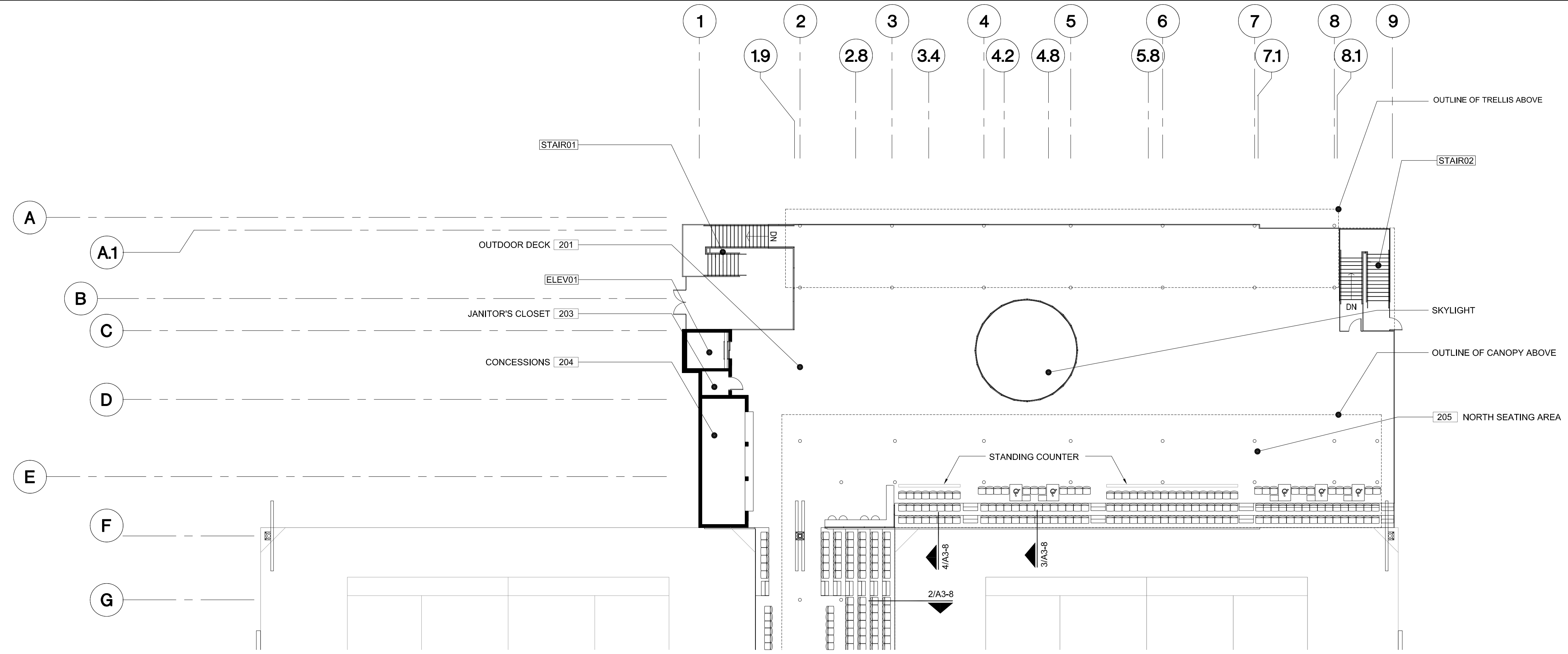
SHEET TITLE  
**TENNIS CENTER  
 ROOF FLOOR PLAN**

SCALE  
 1/32" = 1'-0"



**A2-1**





ISSUES AND REVISIONS

NO.	DATE	DESCRIPTION
01.27.2023	ASA SET	
05.03.2023	ASA RESUBMITTAL #1	

PROJECT NUMBER  
22012

SHEET TITLE  
**TENNIS CENTER ENLARGED  
GROUND & SECOND FLOOR PLAN**

SCALE  
AS NOTED

PROJ NORTH

SHEET NUMBER

A2-2



Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA, 94305  
 Quad/ Bldg. Number: 09-345



3 NOT USED



ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	01.27.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1

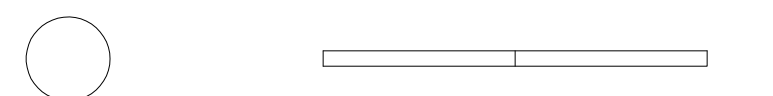
2 CONTEXT ELEVATION (CAMPUS DRIVE)  
 1/32"=1'-0"



PROJECT NUMBER  
22012

SHEET TITLE  
**TENNIS CENTER  
CONTEXT ELEVATIONS**

SCALE  
AS NOTED



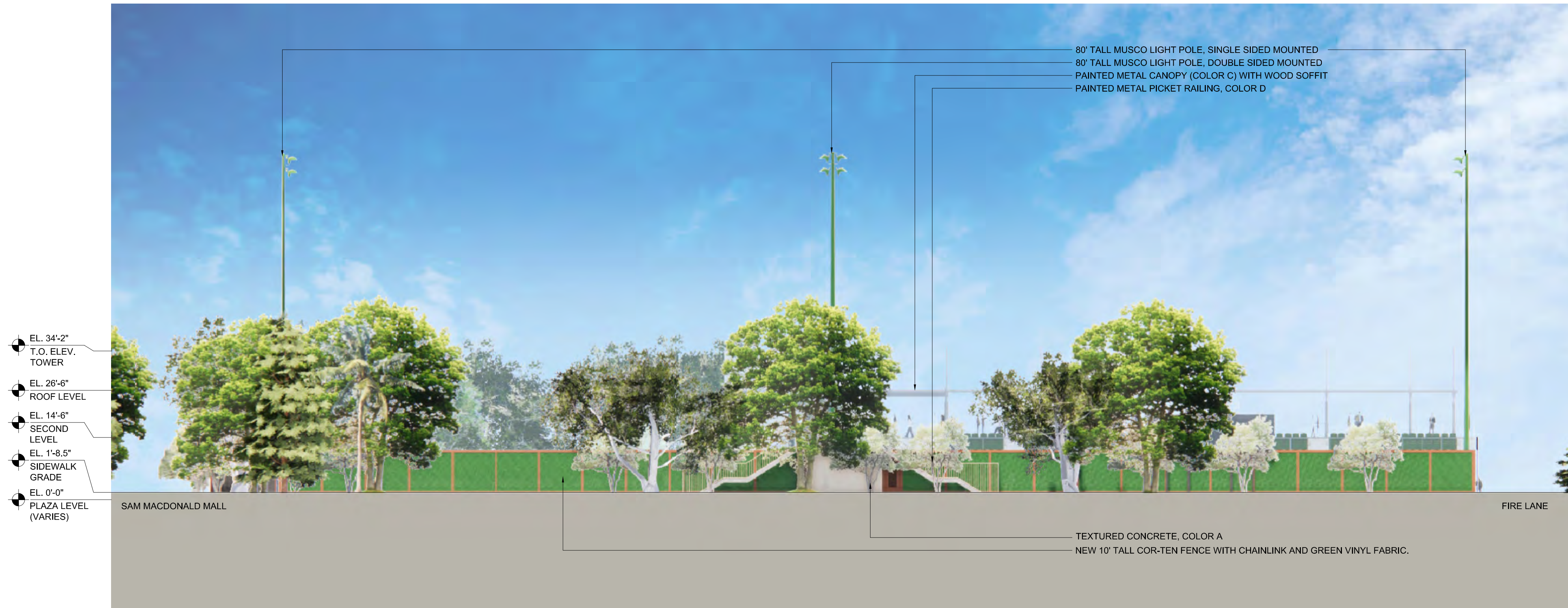
SHEET NUMBER

1 CONTEXT ELEVATION (SAM MACDONALD MALL)  
 1/32"=1'-0"

A3-1



Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA, 94305  
 Quad/ Bldg. Number: 09-345



2 SOUTH ELEVATION (VIEW FROM CAMPUS DRIVE)  
 1/16"=1'-0"



1 NORTH ELEVATION (VIEW FROM CHUCK TAYLOR GROVE)  
 1/16"=1'-0"

ELEVATION LEGEND	
	COLOR 'A', LIGHT BEIGE
	COLOR 'B', WARM BROWN
	COLOR 'C', GRAY
	COLOR 'D', BEIGE

ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	01.27.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22012

SHEET TITLE  
**TENNIS CENTER  
ELEVATIONS**

SCALE  
AS NOTED

SHEET NUMBER

A3-2



Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA, 94305  
 Quad/ Bldg. Number: 09-345



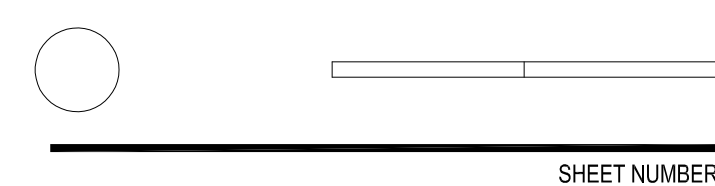
ARCHITECTS  
 KORTH SUNSERI HAGEY

ISSUES AND REVISIONS	
NO.	DESCRIPTION
01.27.2023	ASA SET
05.03.2023	ASA RESUBMITTAL #1

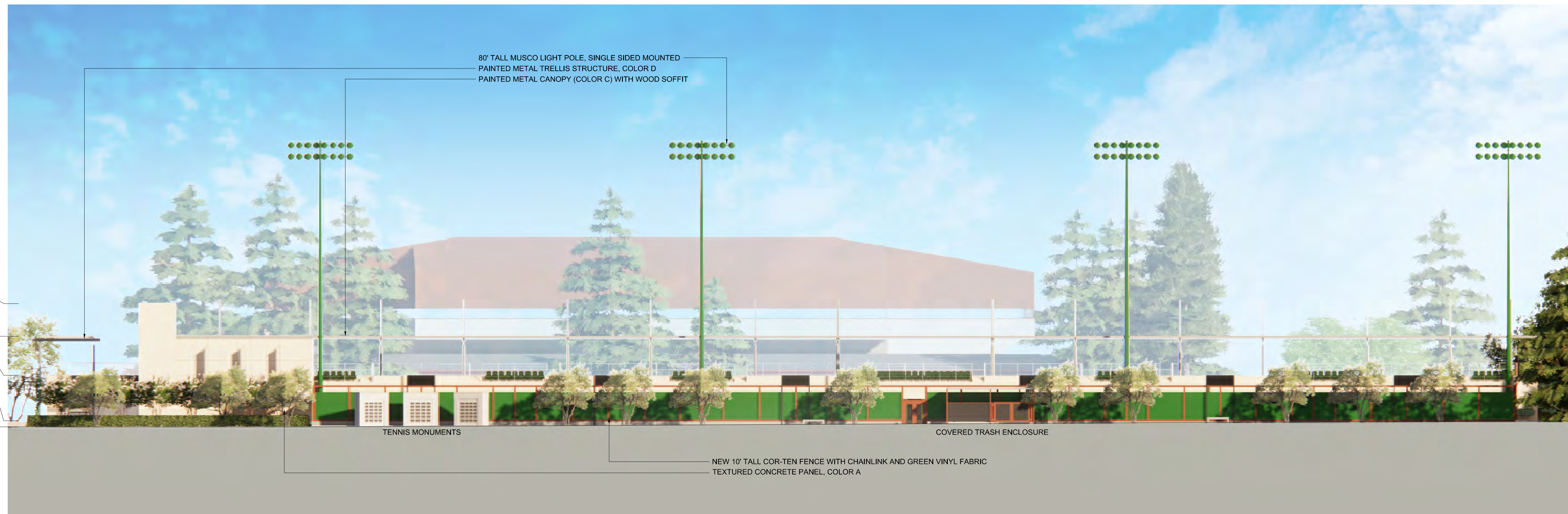
PROJECT NUMBER  
22012

SHEET TITLE  
**TENNIS CENTER  
ELEVATIONS**

SCALE  
AS NOTED



A3-3



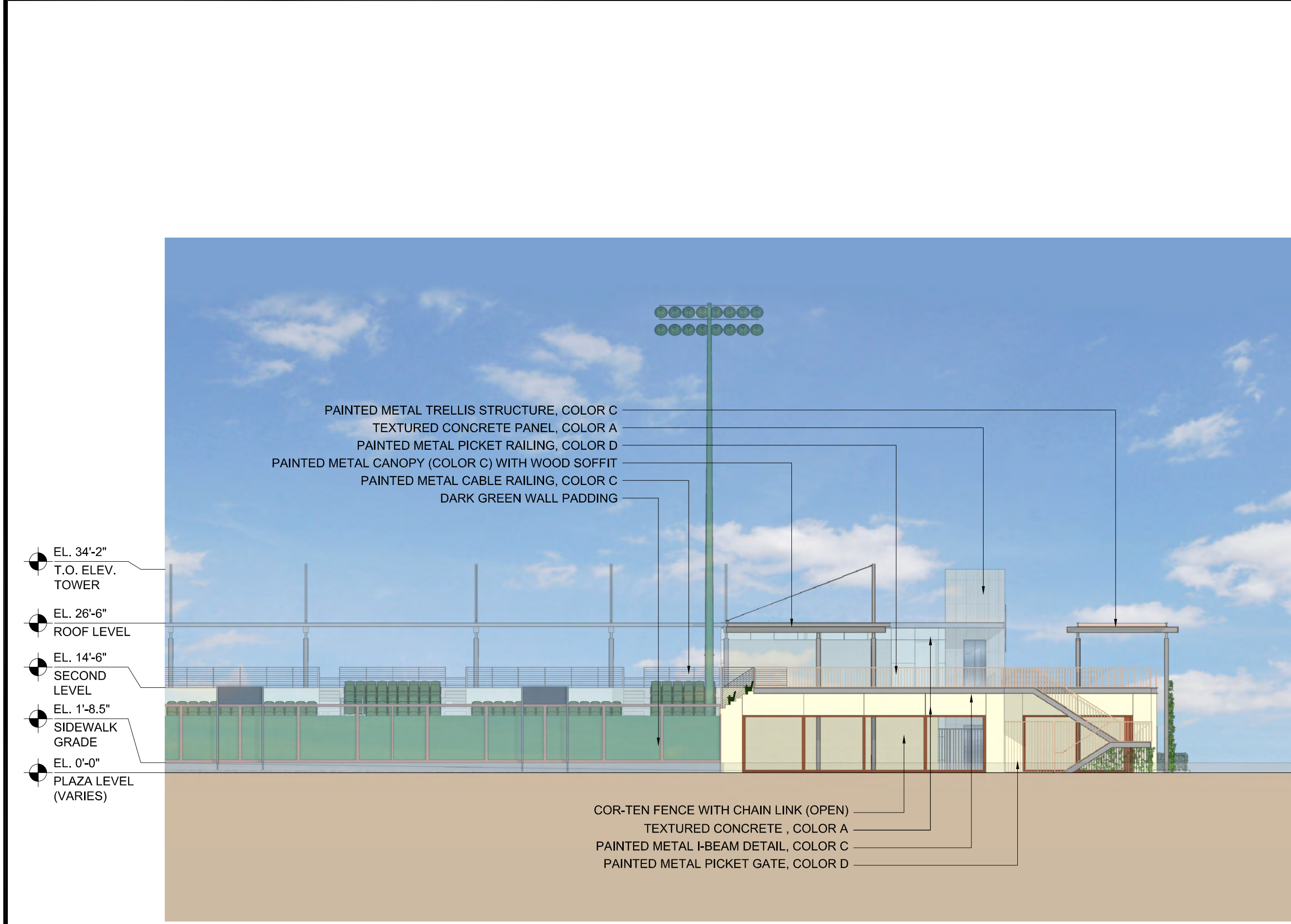
**2** WEST ELEVATION (VIEW FROM SAM MACDONALD MALL)  
1/16"=1'-0"



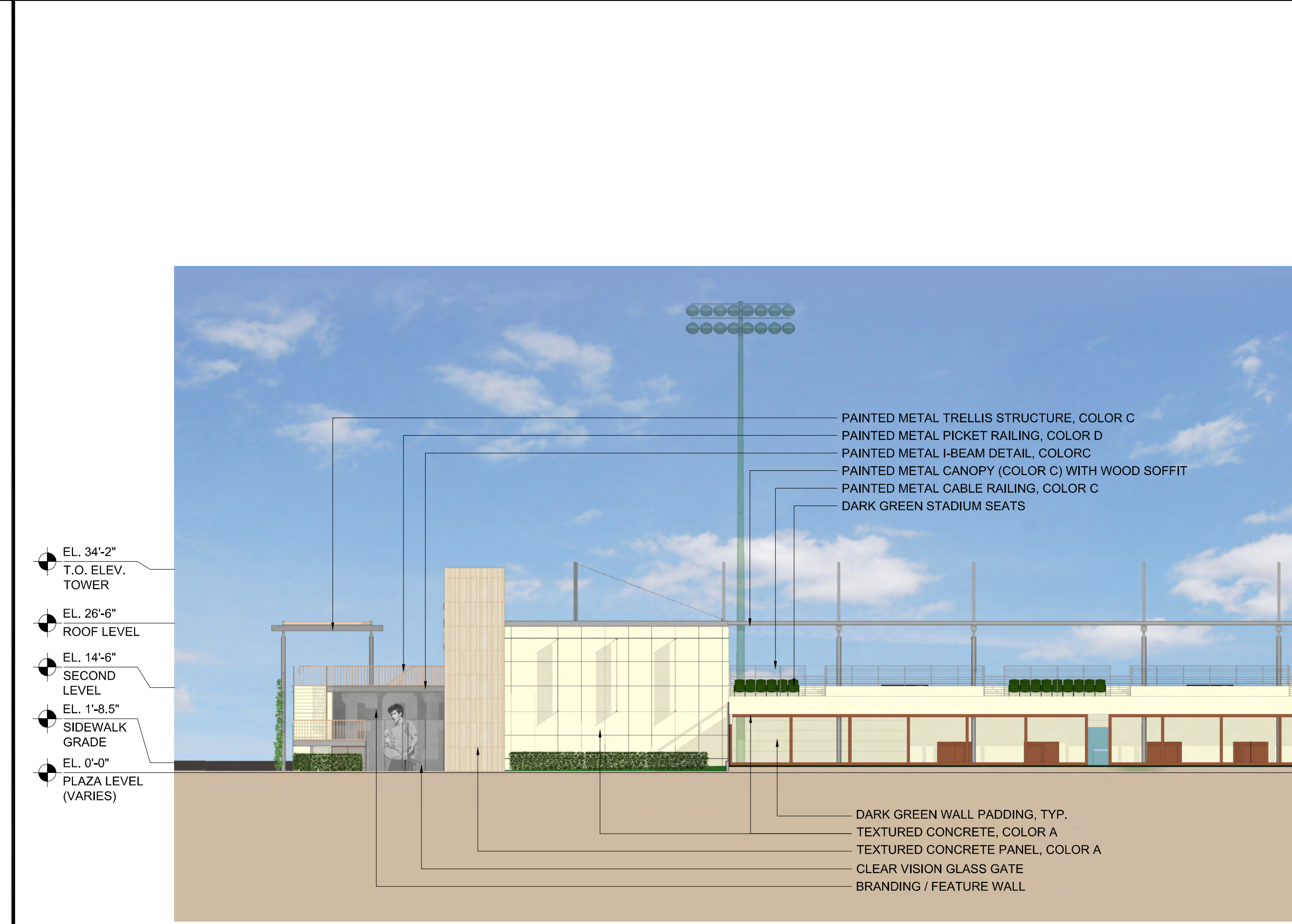
**1** EAST ELEVATION (VIEW FROM ARRILLAGA FAMILY SPORTS CENTER)  
1/16"=1'-0"



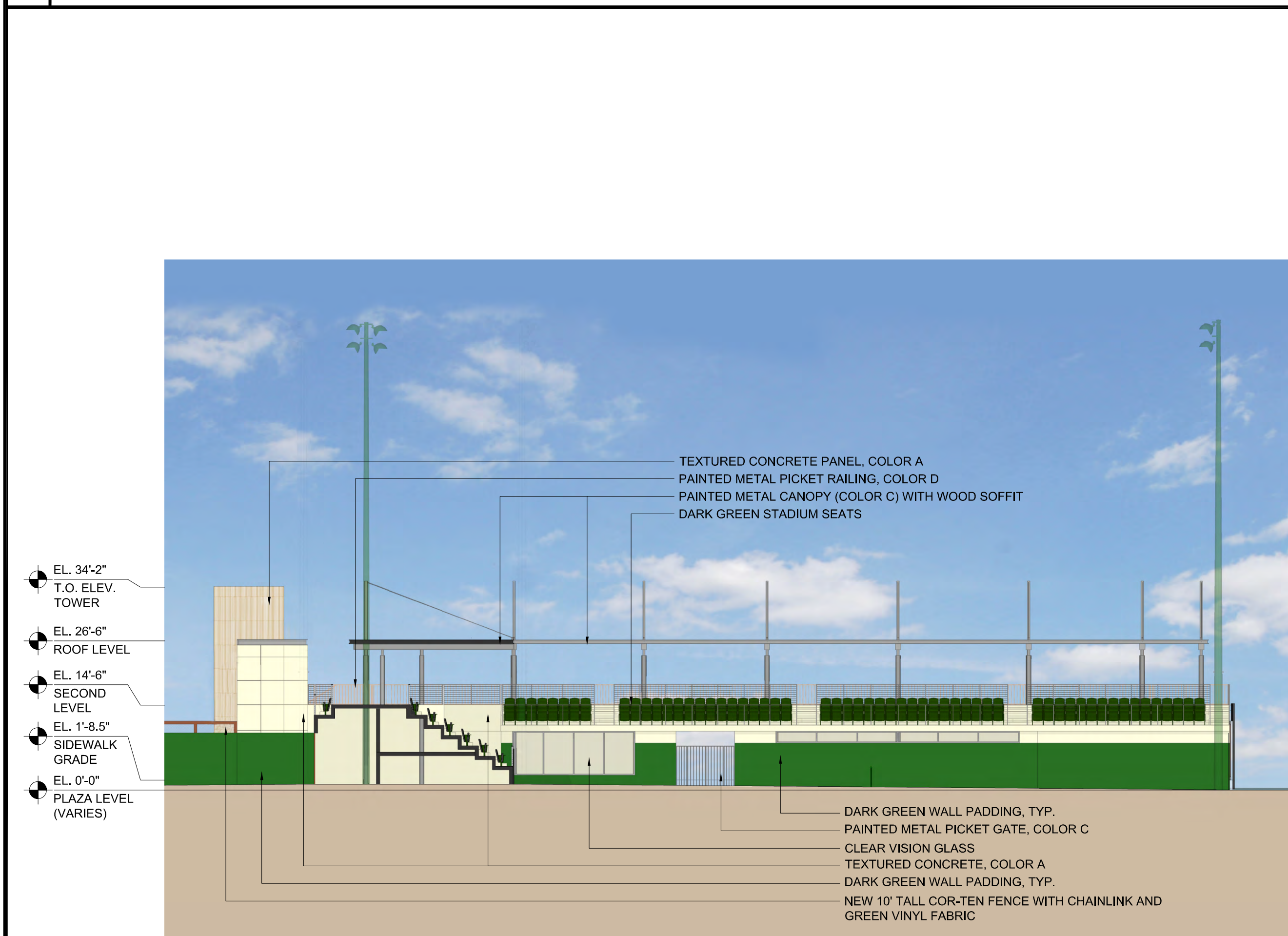
Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA, 94305  
 Quad/ Bldg. Number: 09-345



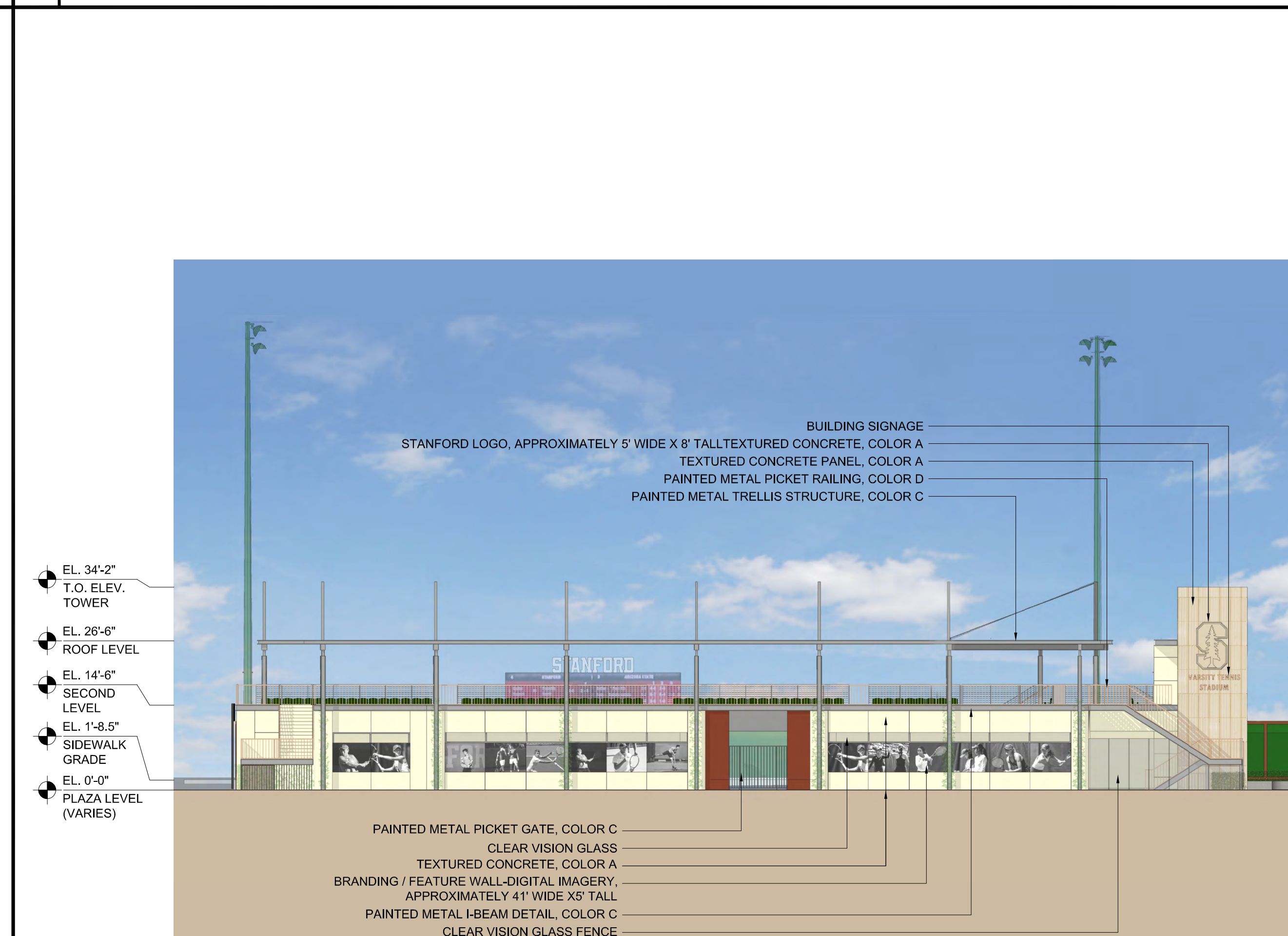
4 EAST ELEVATION (VIEW FROM ARRILLAGA FAMILY SPORTS CENTER)  
 1/16"=1'-0"



3 WEST ELEVATION (VIEW FROM SAM MACDONALD MALL)  
 1/16"=1'-0"



2 SOUTH ELEVATION (VIEW FROM CAMPUS DRIVE)  
 1/16"=1'-0"



1 NORTH ELEVATION (VIEW FROM CHUCK TAYLOR GROVE)  
 1/16"=1'-0"

ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	01.27.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
 22012

SHEET TITLE  
**TENNIS CENTER  
 BUILDING ELEVATIONS**

SCALE  
 AS NOTED



SHEET NUMBER

A3-4



Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA, 94305  
 Quad/ Bldg. Number: 09-345



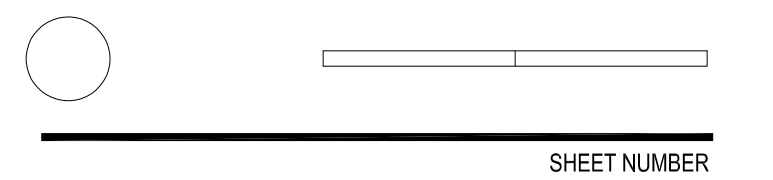
**2** WEST ELEVATION (VIEW FROM SAM MACDONALD MALL)  
 1/16"=1'-0"

ISSUES AND REVISIONS	
NO.	DATE DESCRIPTION
01.27.2023	ASA SET
05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22012

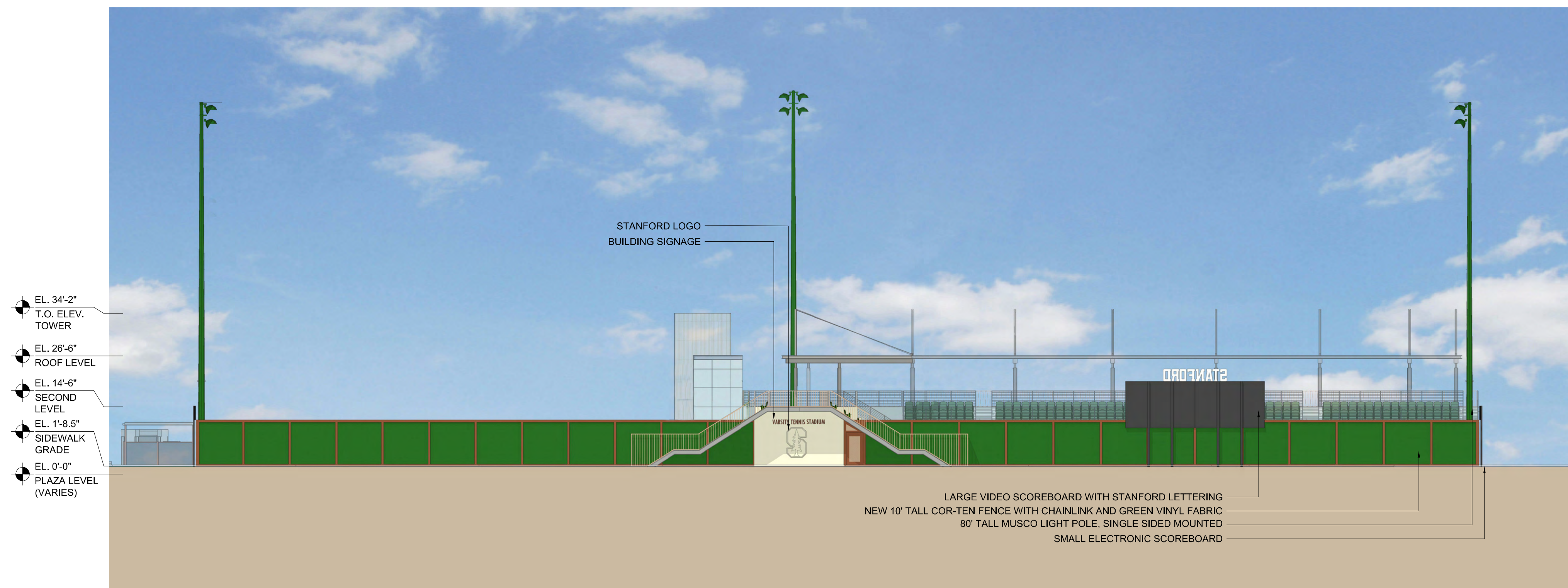
SHEET TITLE  
**TENNIS CENTER  
FENCE ELEVATIONS**

SCALE  
AS NOTED



SHEET NUMBER

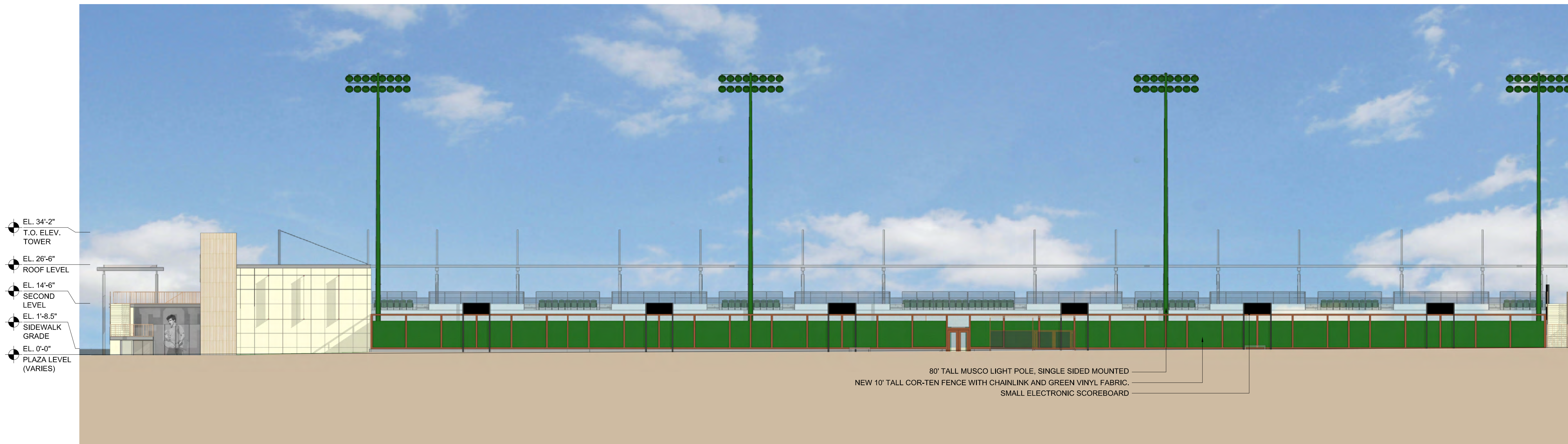
**A3-5**



**1** EAST ELEVATION (VIEW FROM ARRILLAGA FAMILY SPORTS CENTER)  
 1/16"=1'-0"



Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA, 94305  
 Quad/ Bldg. Number: 09-345



**2** SOUTH ELEVATION (VIEW FROM CAMPUS DRIVE)  
 1/16"=1'-0"

80' TALL MUSCO LIGHT POLE, SINGLE SIDED MOUNTED  
 NEW 10' TALL COR-TEN FENCE WITH CHAINLINK AND GREEN VINYL FABRIC.  
 SMALL ELECTRONIC SCOREBOARD

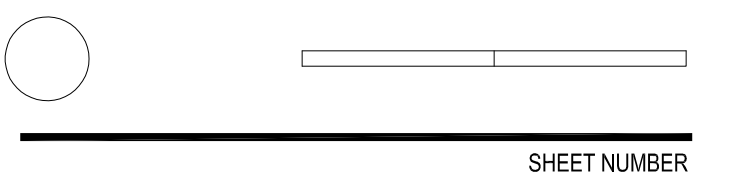
ISSUES AND REVISIONS

NO.	DATE	DESCRIPTION
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05.03.2023	ASA RESUBMITTAL #1	

PROJECT NUMBER  
22012

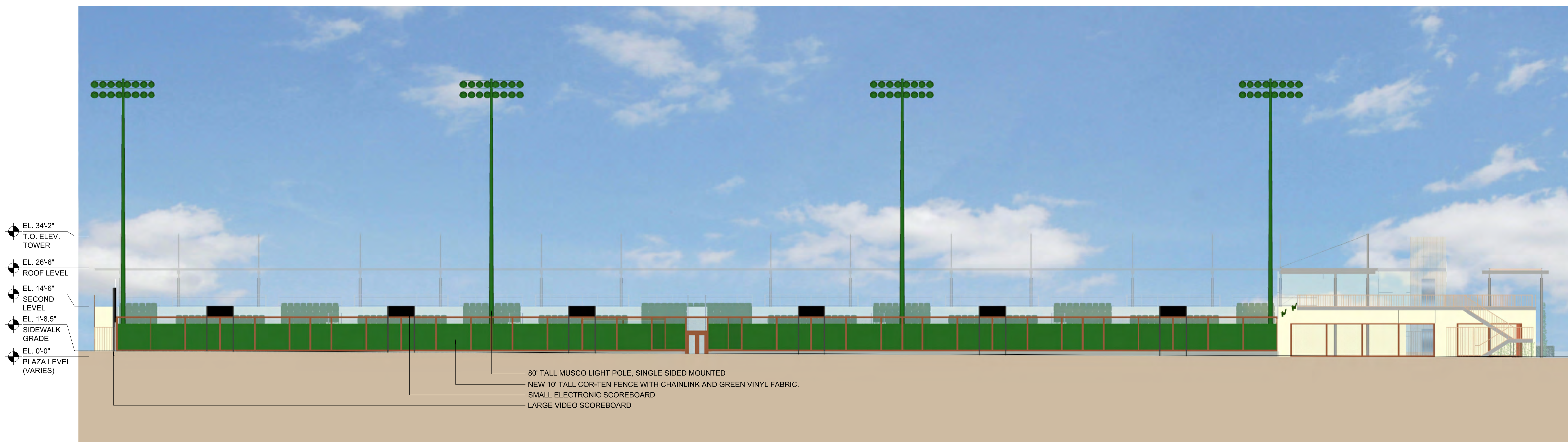
SHEET TITLE  
**TENNIS CENTER  
FENCE ELEVATIONS**

SCALE  
AS NOTED



SHEET NUMBER

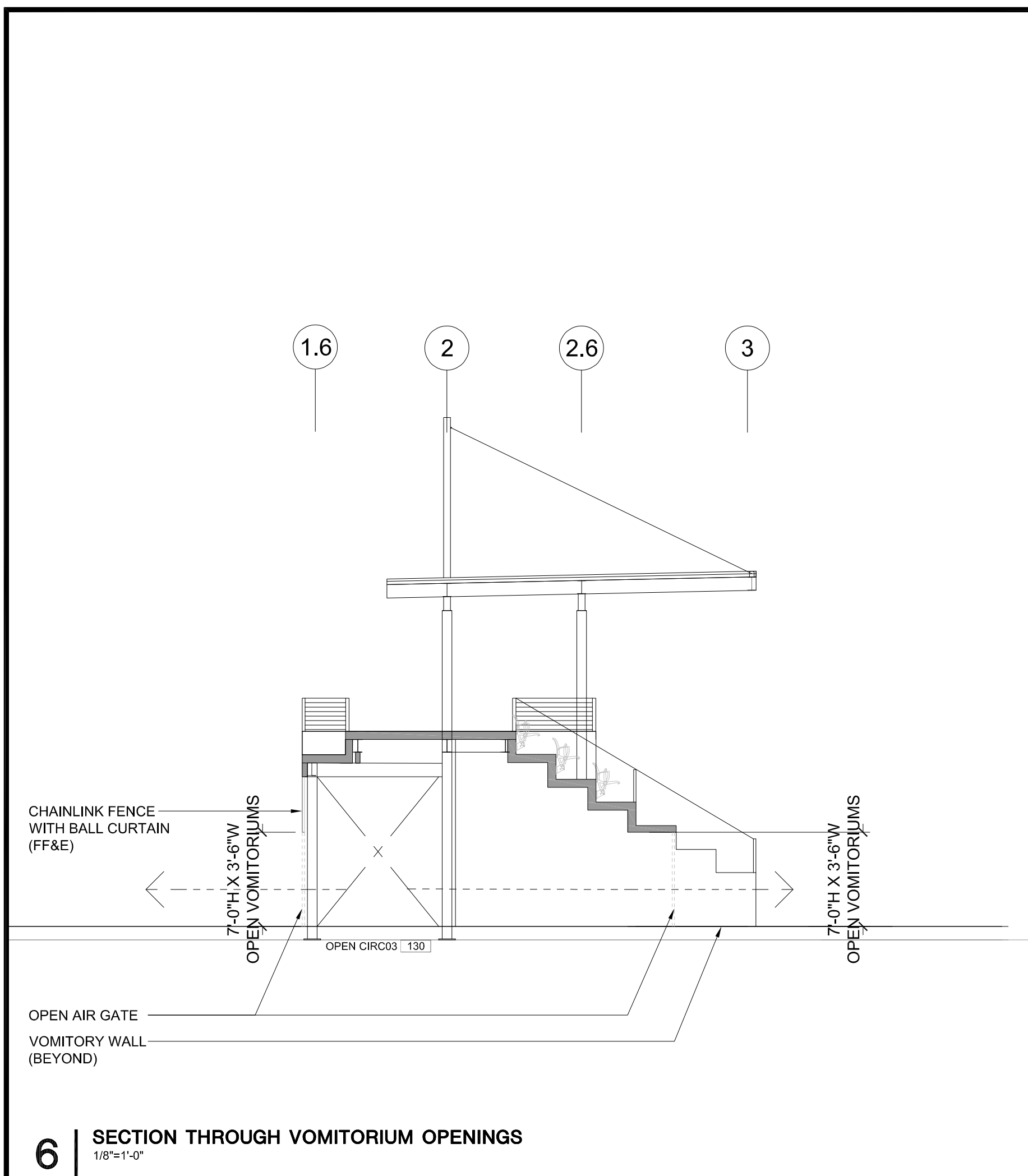
**A3-6**



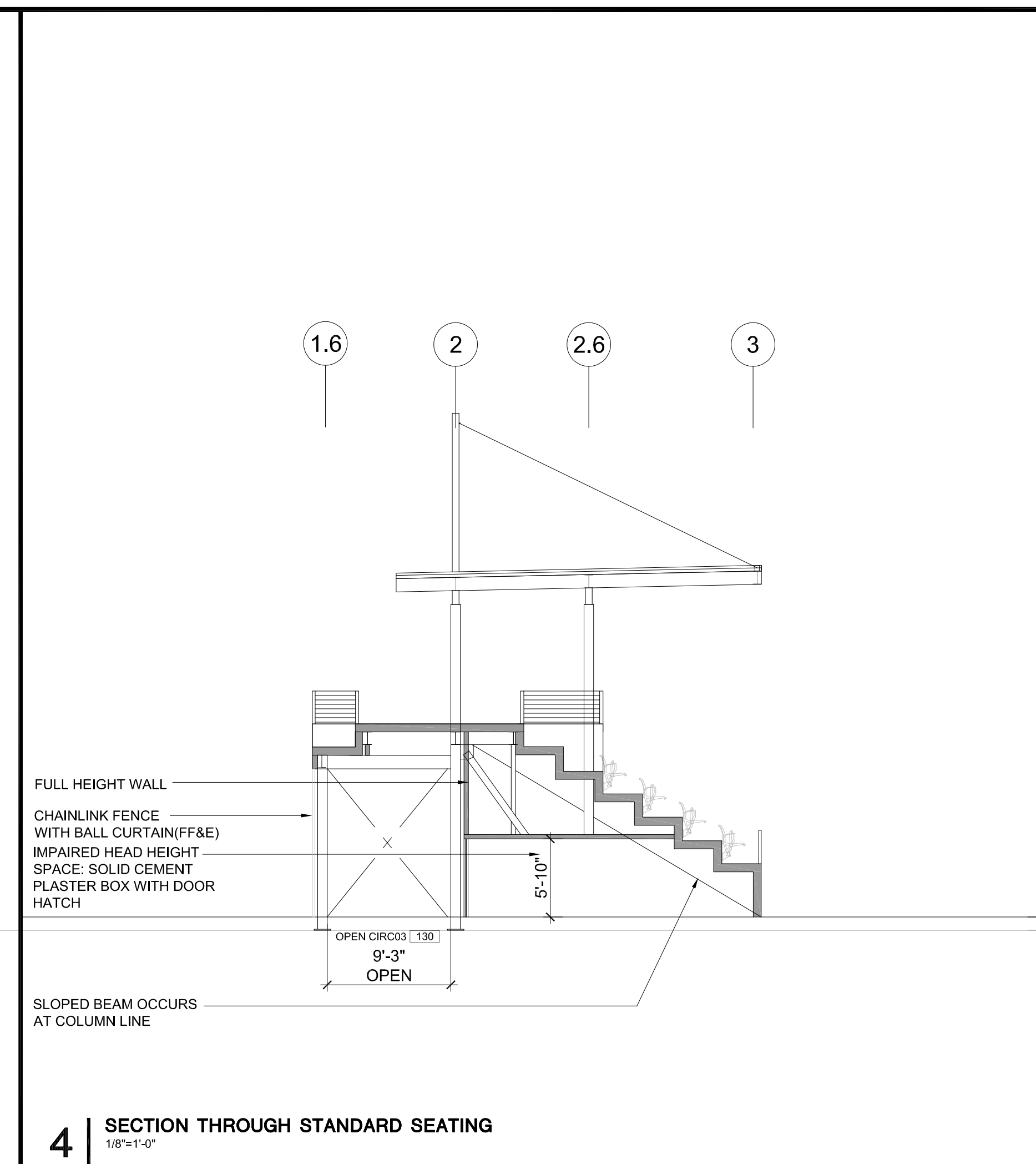
**1** NORTH ELEVATION (VIEW FROM CHUCK TAYLOR GROVE)  
 1/16"=1'-0"

80' TALL MUSCO LIGHT POLE, SINGLE SIDED MOUNTED  
 NEW 10' TALL COR-TEN FENCE WITH CHAINLINK AND GREEN VINYL FABRIC.  
 SMALL ELECTRONIC SCOREBOARD  
 LARGE VIDEO SCOREBOARD

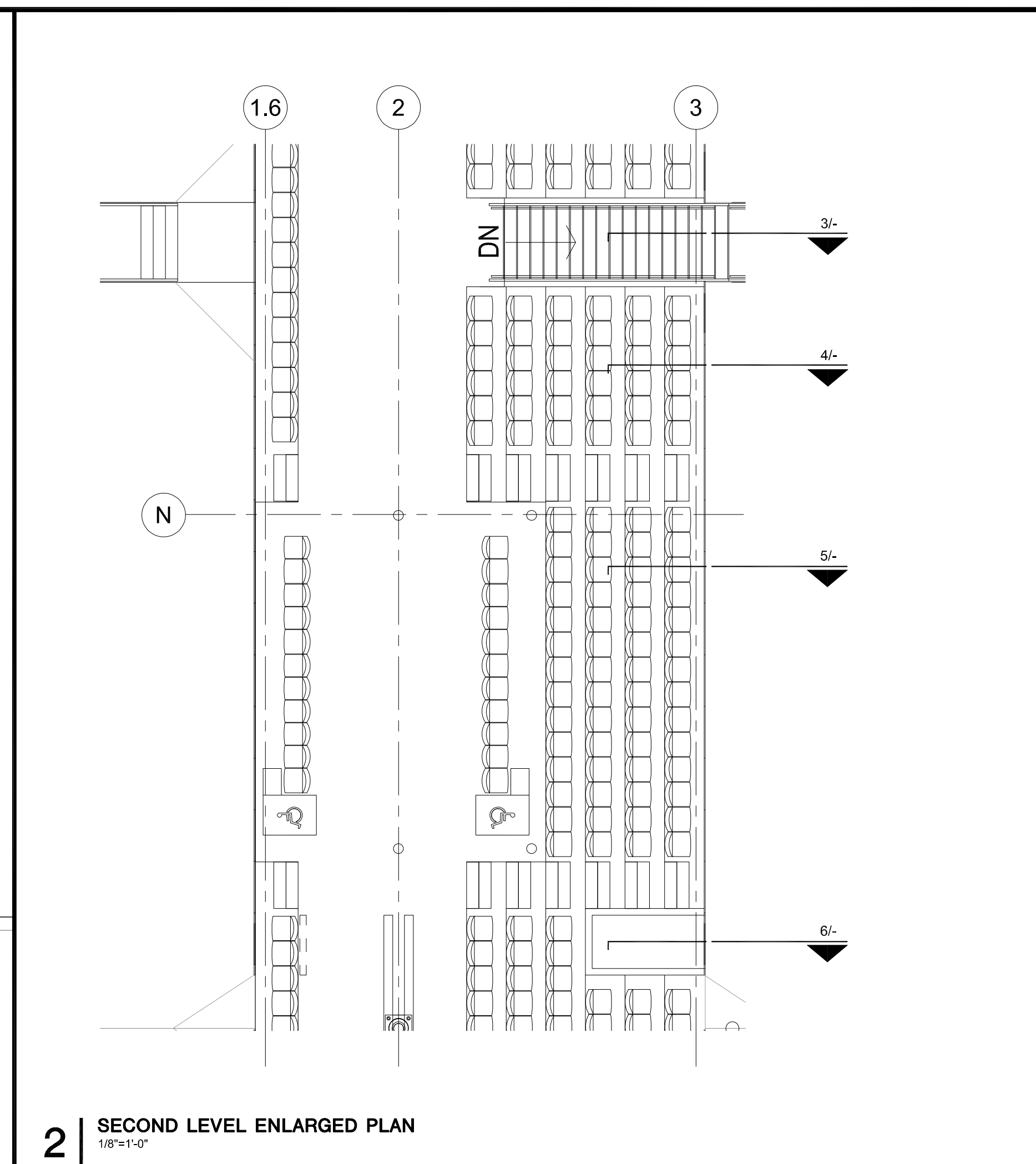




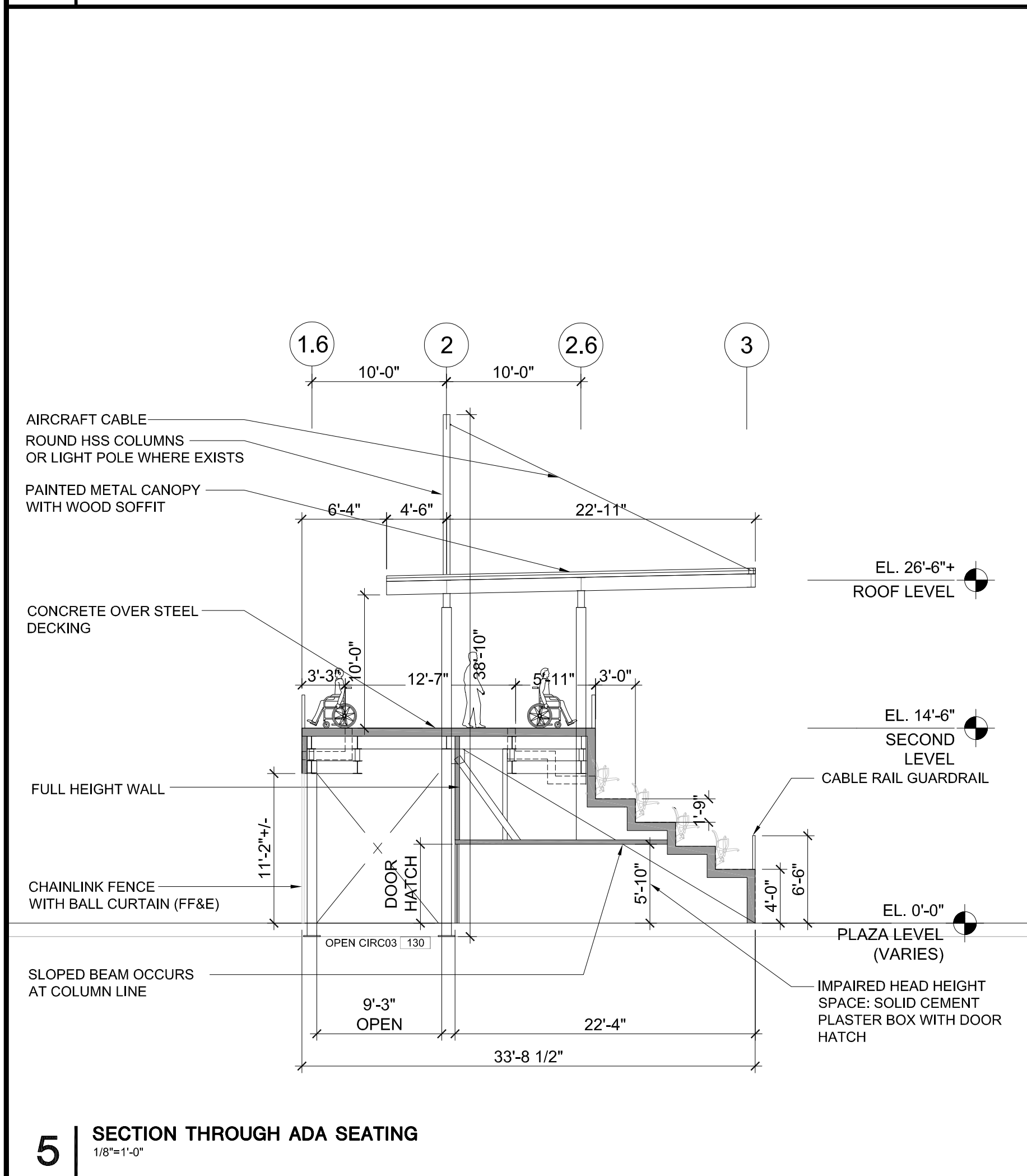
**6** SECTION THROUGH VOMITORIUM OPENINGS  
 1/8"=1'-0"



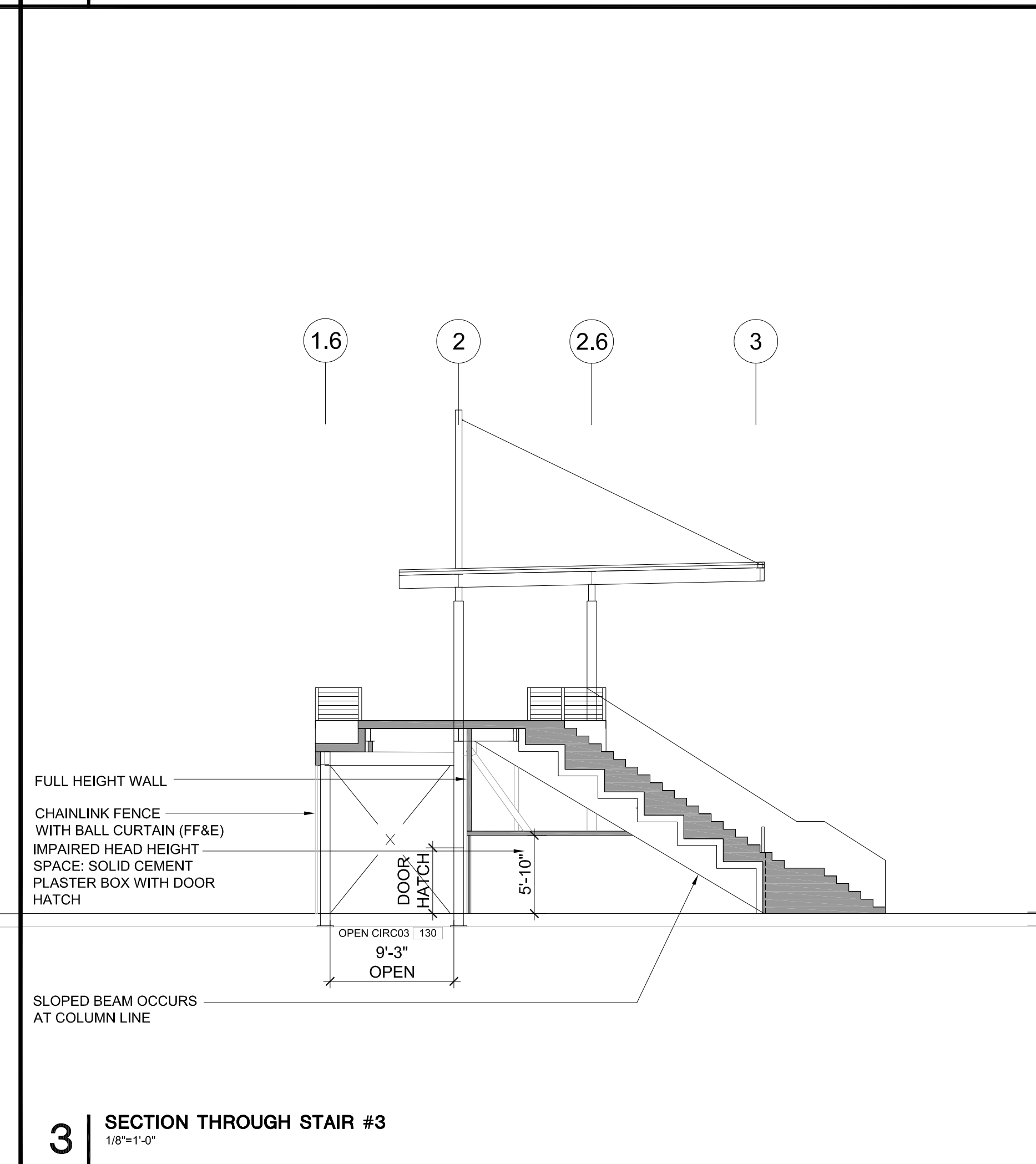
**4** SECTION THROUGH STANDARD SEATING  
 1/8"=1'-0"



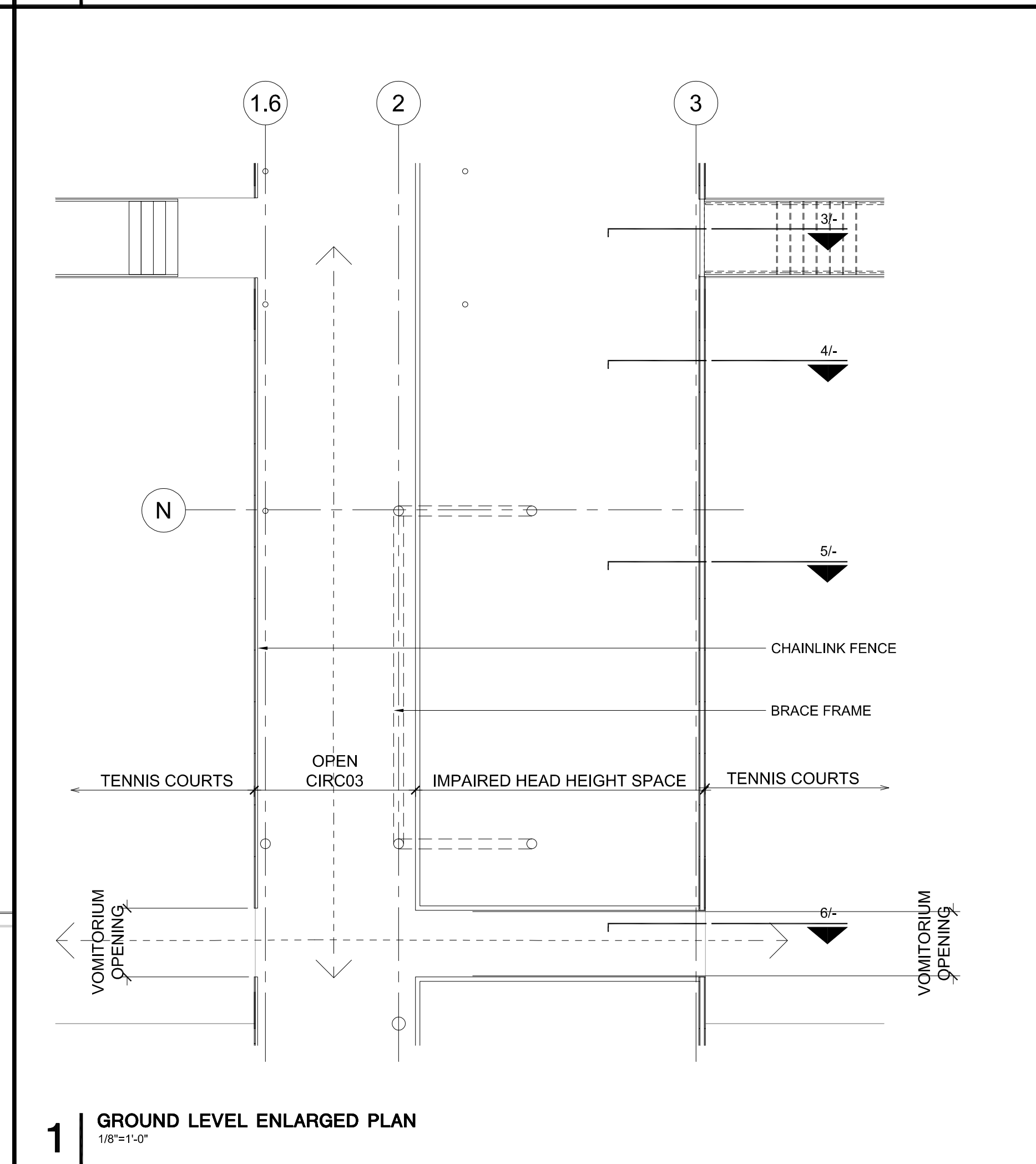
**2** SECOND LEVEL ENLARGED PLAN  
 1/8"=1'-0"



**5** SECTION THROUGH ADA SEATING  
 1/8"=1'-0"



**3** SECTION THROUGH STAIR #3  
 1/8"=1'-0"



**1** GROUND LEVEL ENLARGED PLAN  
 1/8"=1'-0"

ISSUES AND REVISIONS	
NO.	DESCRIPTION
01.27.2023	ASA SET
05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER	22012
SHEET TITLE	TENNIS CENTER SECTION
SCALE	AS NOTED
SHEET NUMBER	

A3-7



**ARCHITECTS**  
 KORTH SUNSERI HAGEY

ISSUES AND REVISIONS	
NO.	DATE DESCRIPTION
01.27.2023	ASA SET
05.03.2023	ASA RESUBMITTAL #1

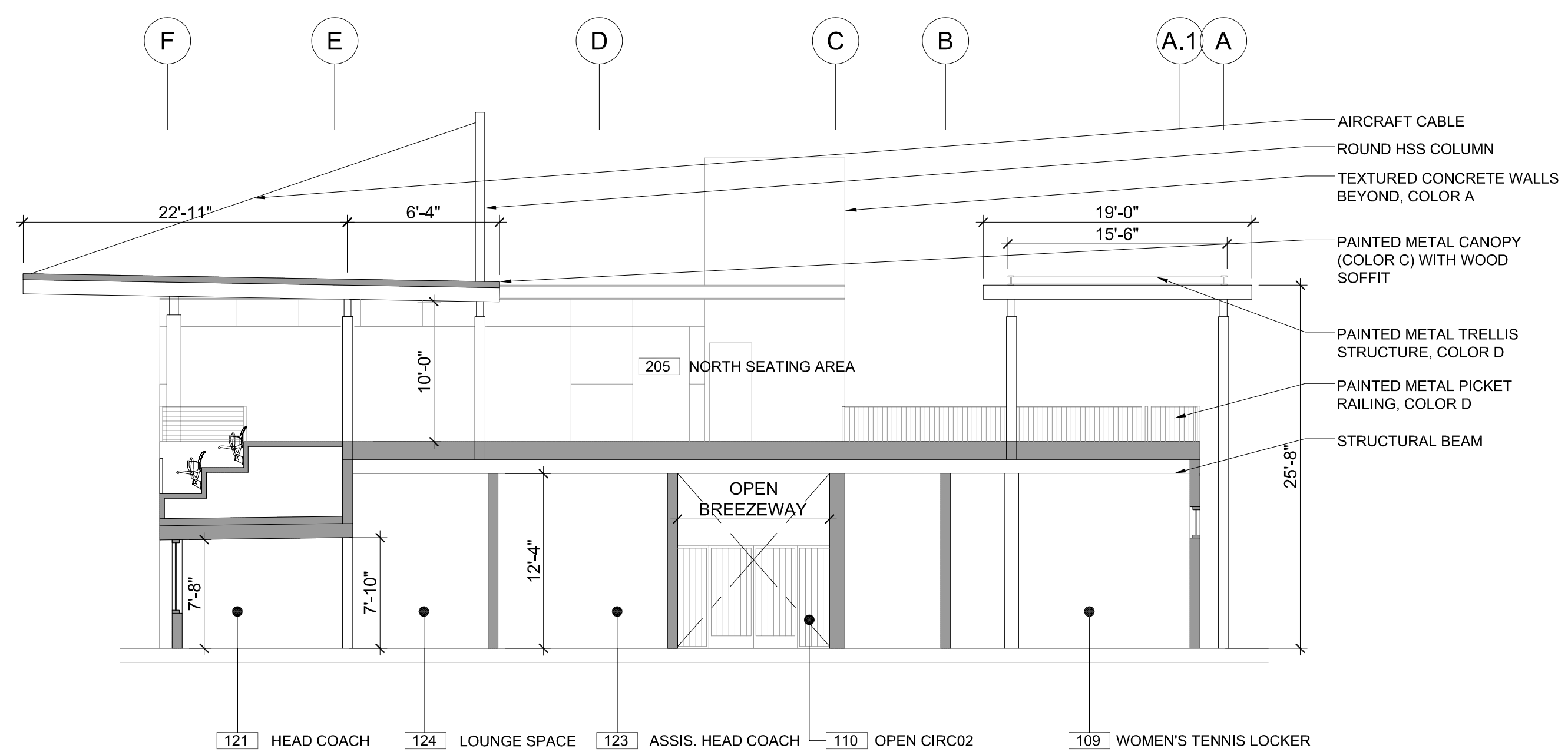
PROJECT NUMBER  
22012

SHEET TITLE  
**TENNIS CENTER SECTION**

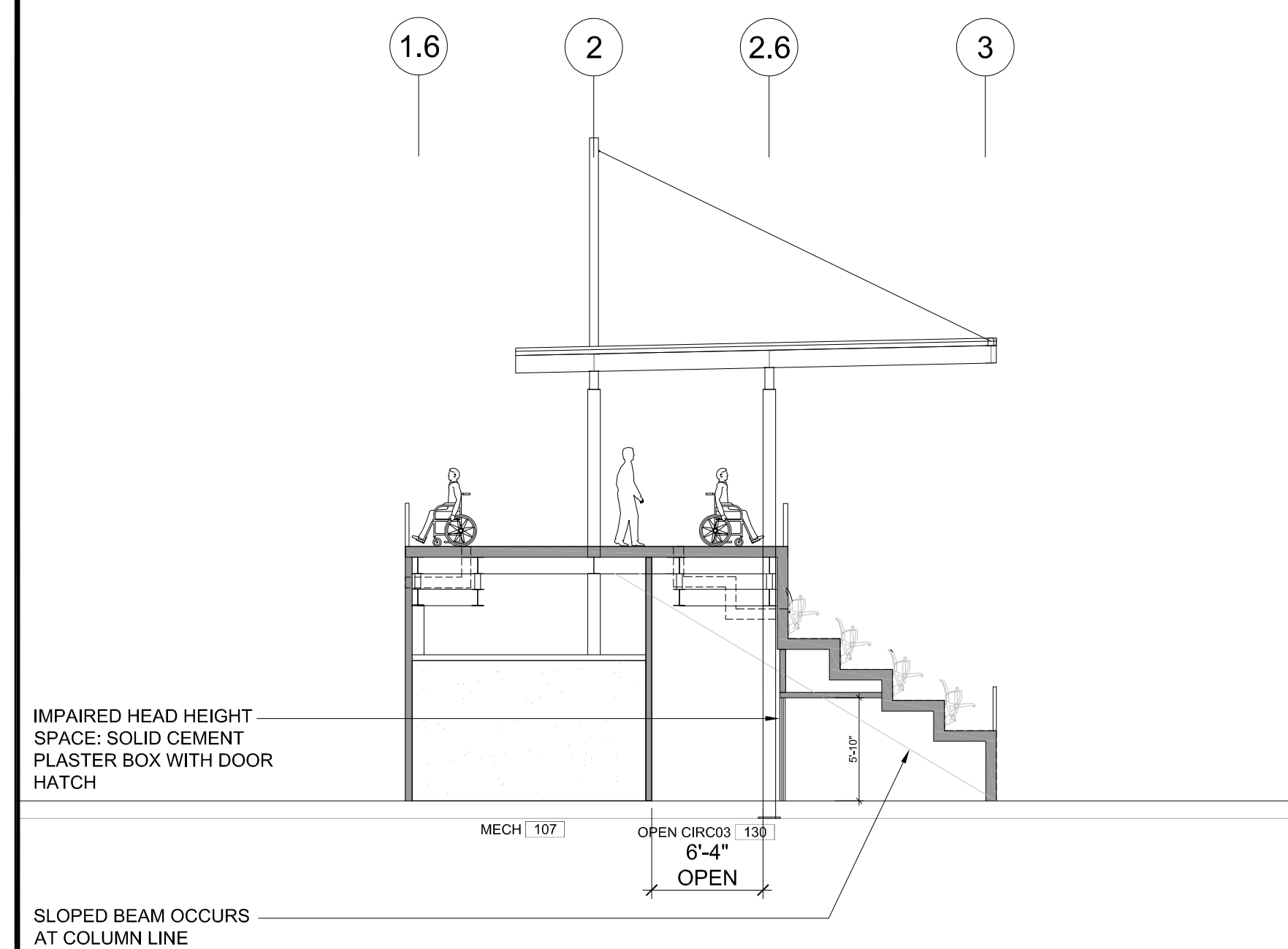
SCALE  
AS NOTED

SHEET NUMBER

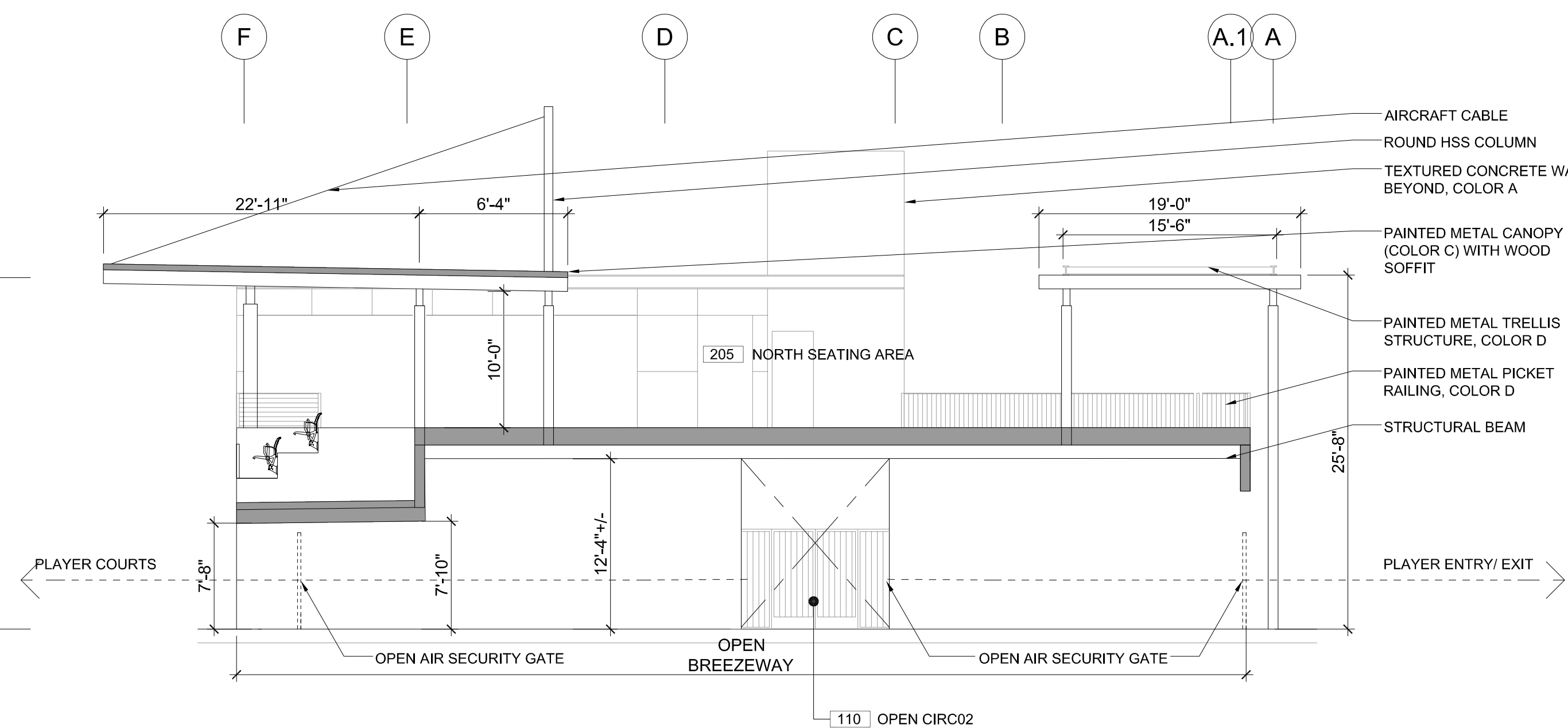
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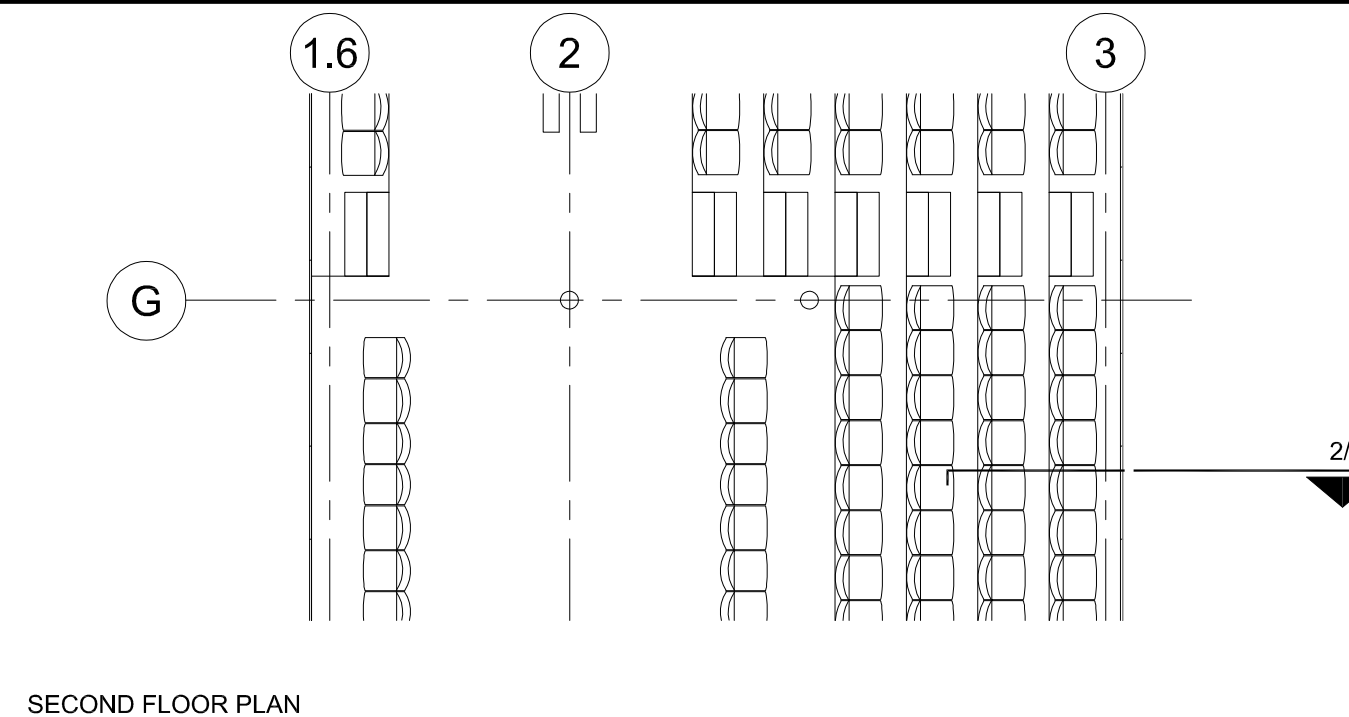
**4** SECTION THROUGH LOCKER ROOMS  
1/8"=1'-0"



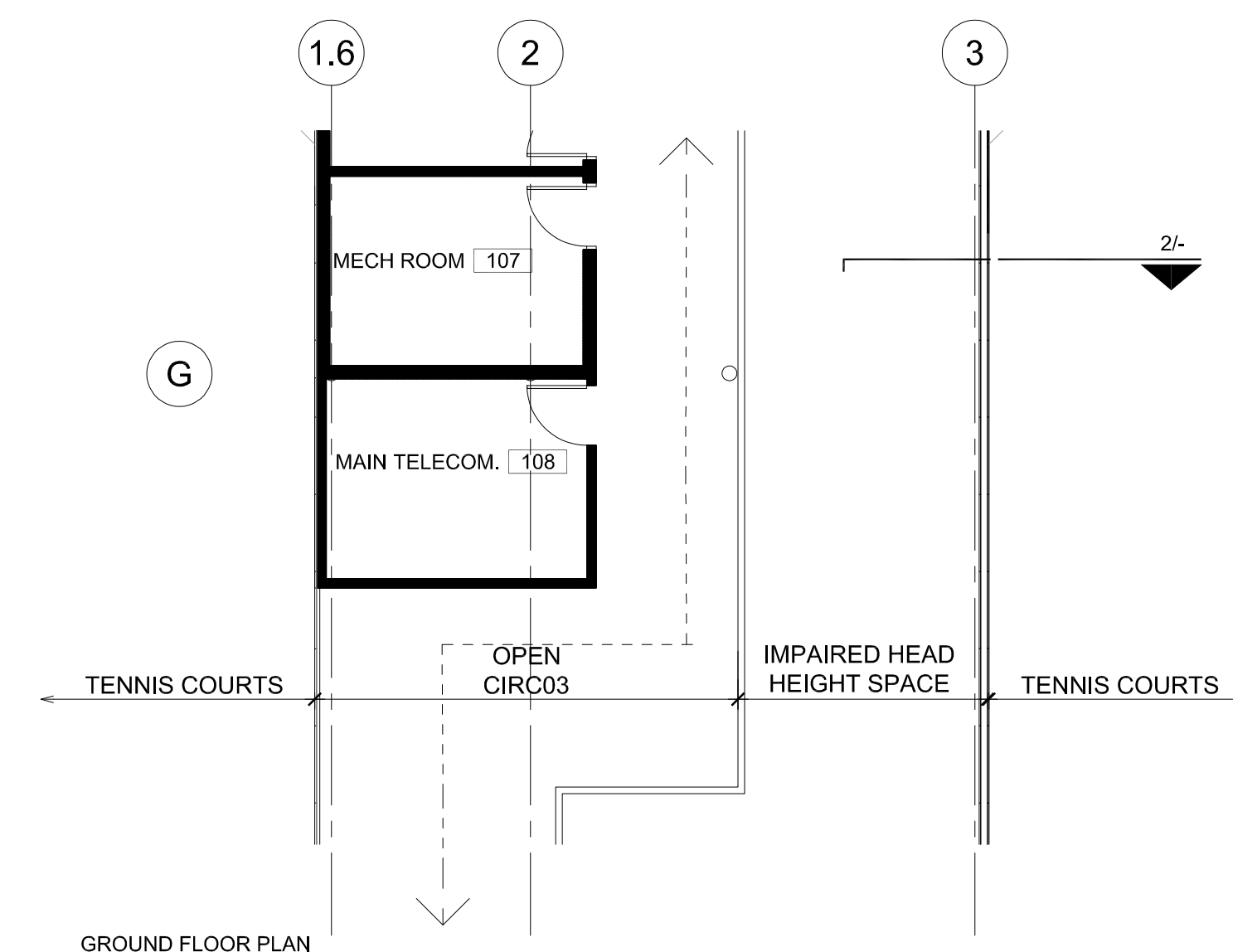
**2** SECTION THROUGH MECHANICAL ROOM  
1/8"=1'-0"



**3** SECTION THROUGH BREEZEWAY  
1/8"=1'-0"



SECOND FLOOR PLAN



**1** MECHANICAL ROOM ENLARGED PLAN  
1/8"=1'-0"



Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA, 94305  
 Quad/ Bldg. Number: 09-345



**ARCHITECTS**  
 KORTH SUNSERI HAGEY



**3** INTERIOR ELEVATION (OPEN-AIR WALKWAY)  
 1/16"=1'-0"

ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	01.27.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22012

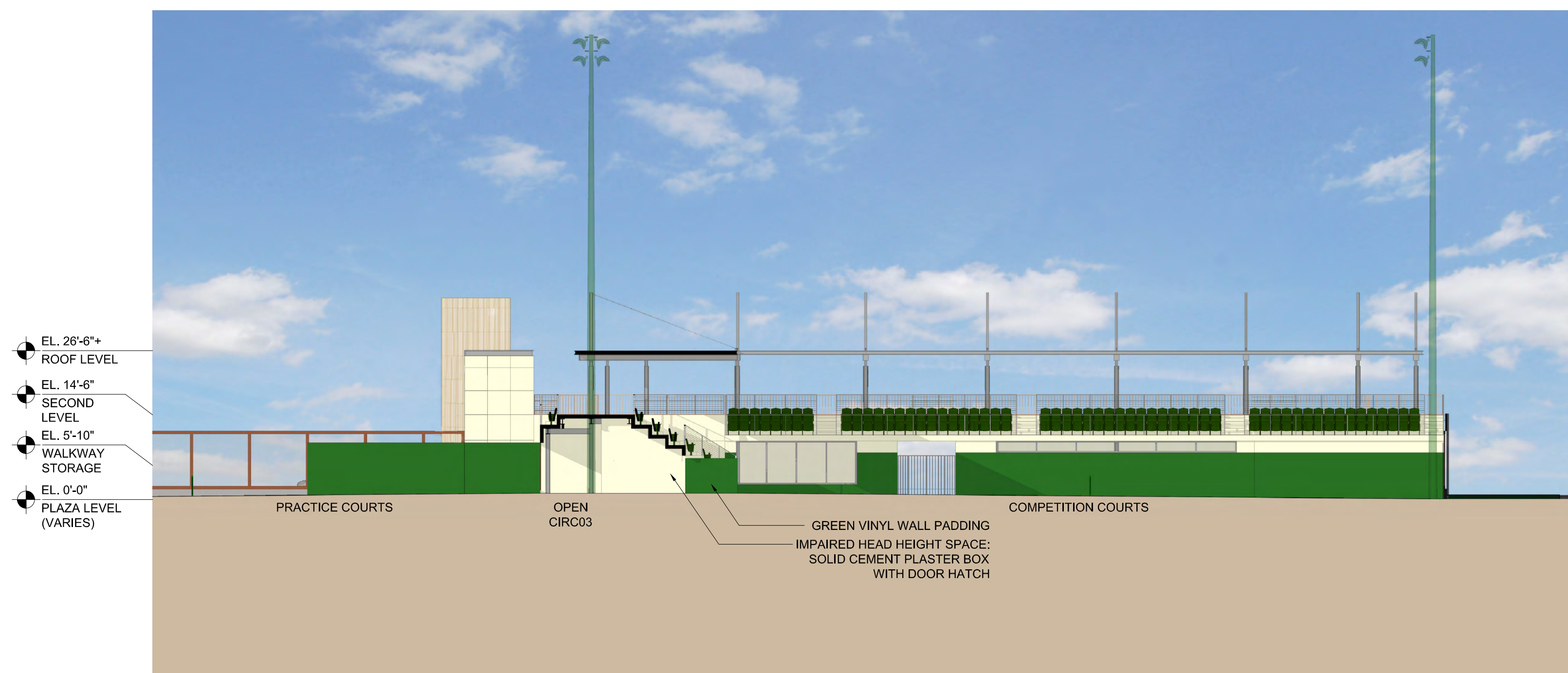
SHEET TITLE  
**TENNIS CENTER  
 INTERIOR ELEVATIONS**

SCALE  
AS NOTED

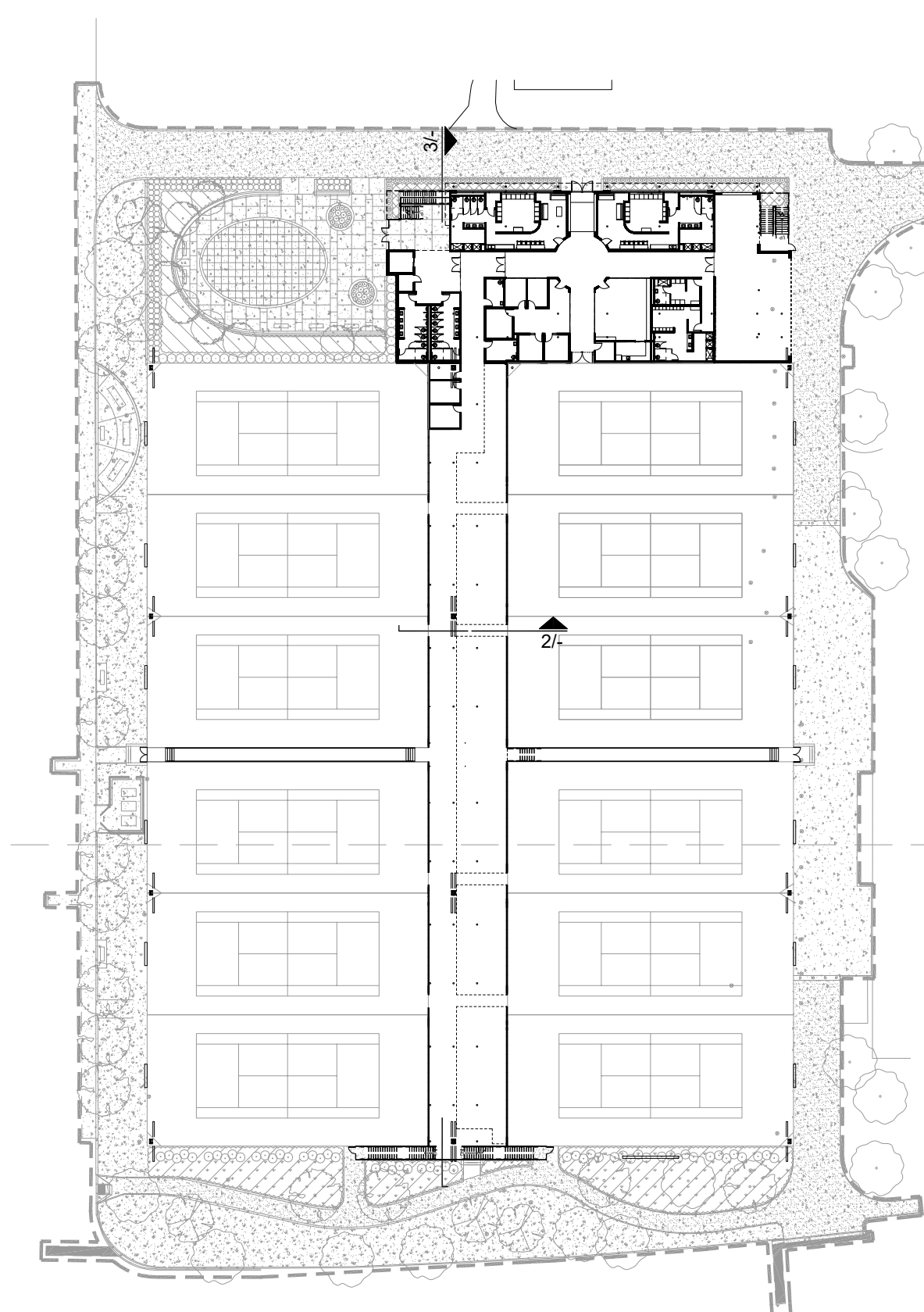


SHEET NUMBER

**A3-9**



**2** INTERIOR ELEVATION (OPEN-AIR WALKWAY)  
 1/16"=1'-0"



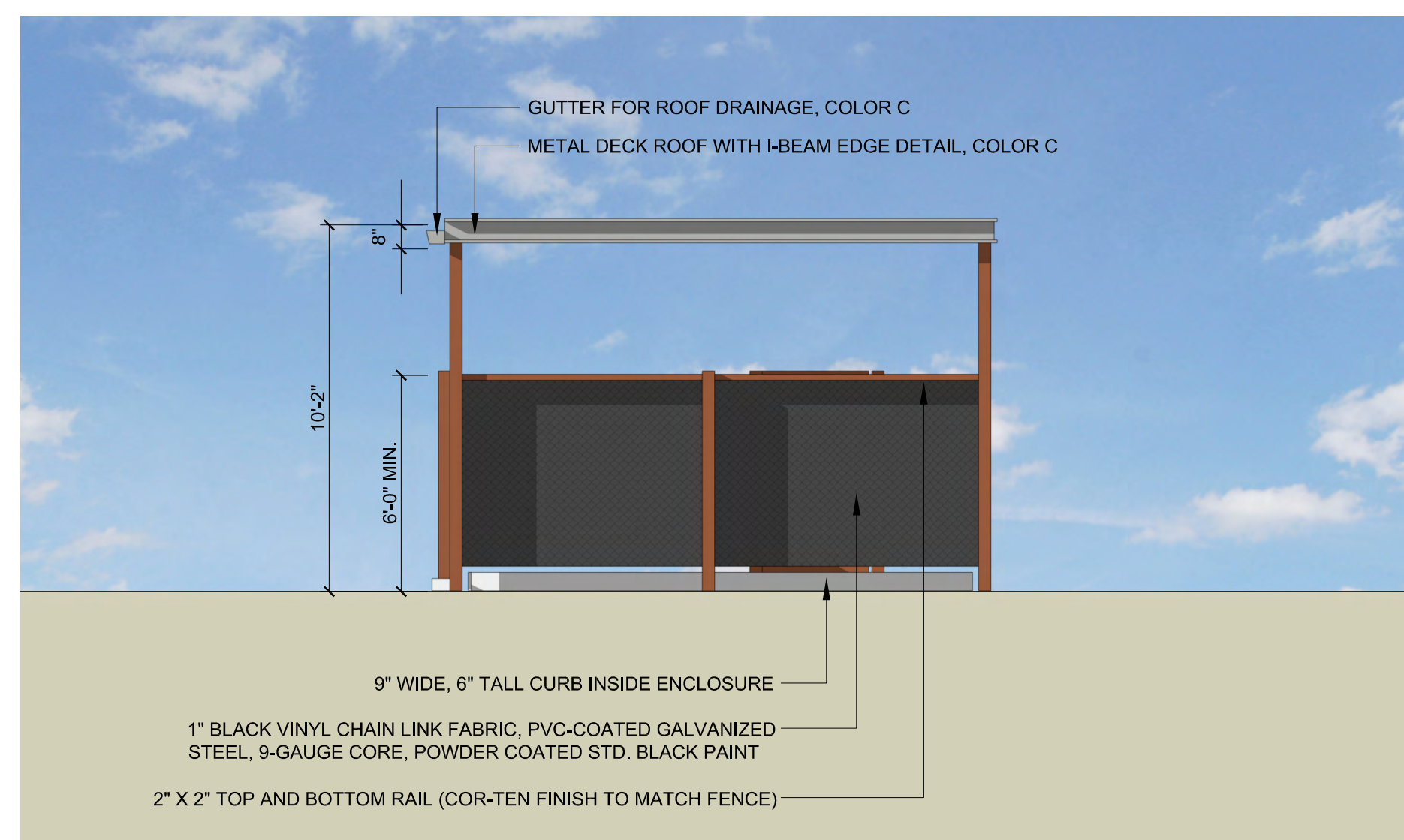
**1** KEY PLAN  
 1/84"=1'-0"



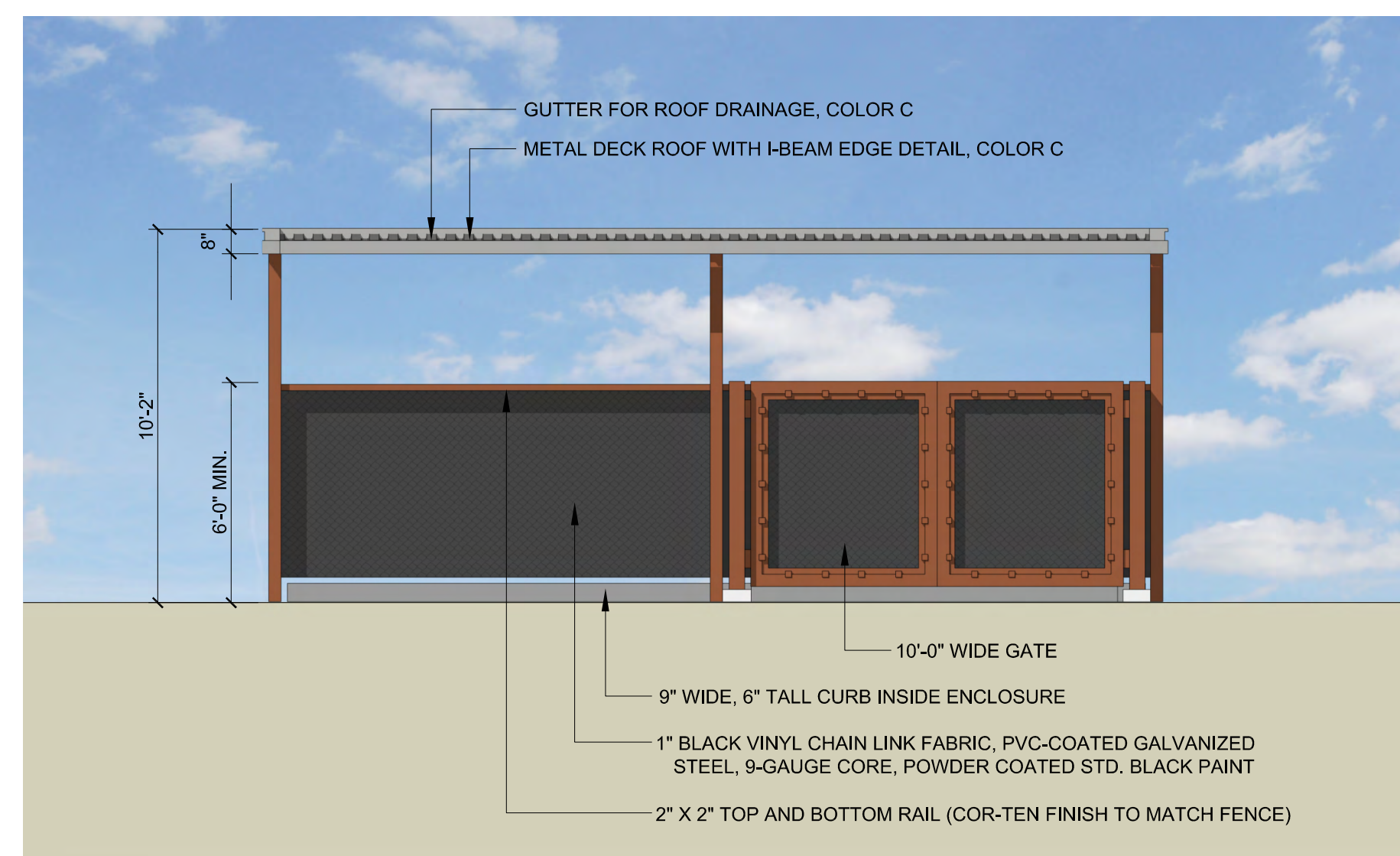
Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA, 94305  
 Quad/ Bldg. Number: 09-345



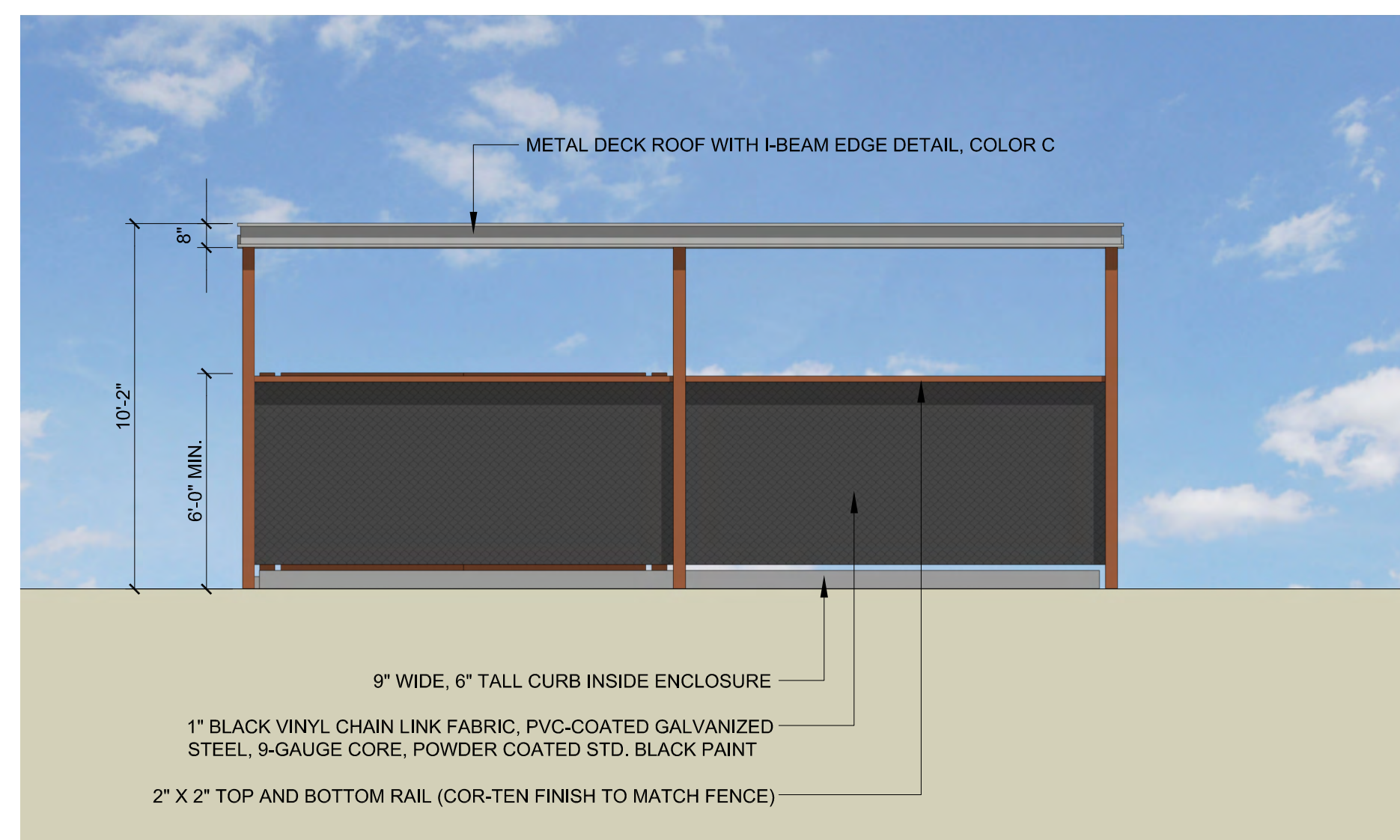
**ARCHITECTS**  
 KORTH SUNSERI HAGEY



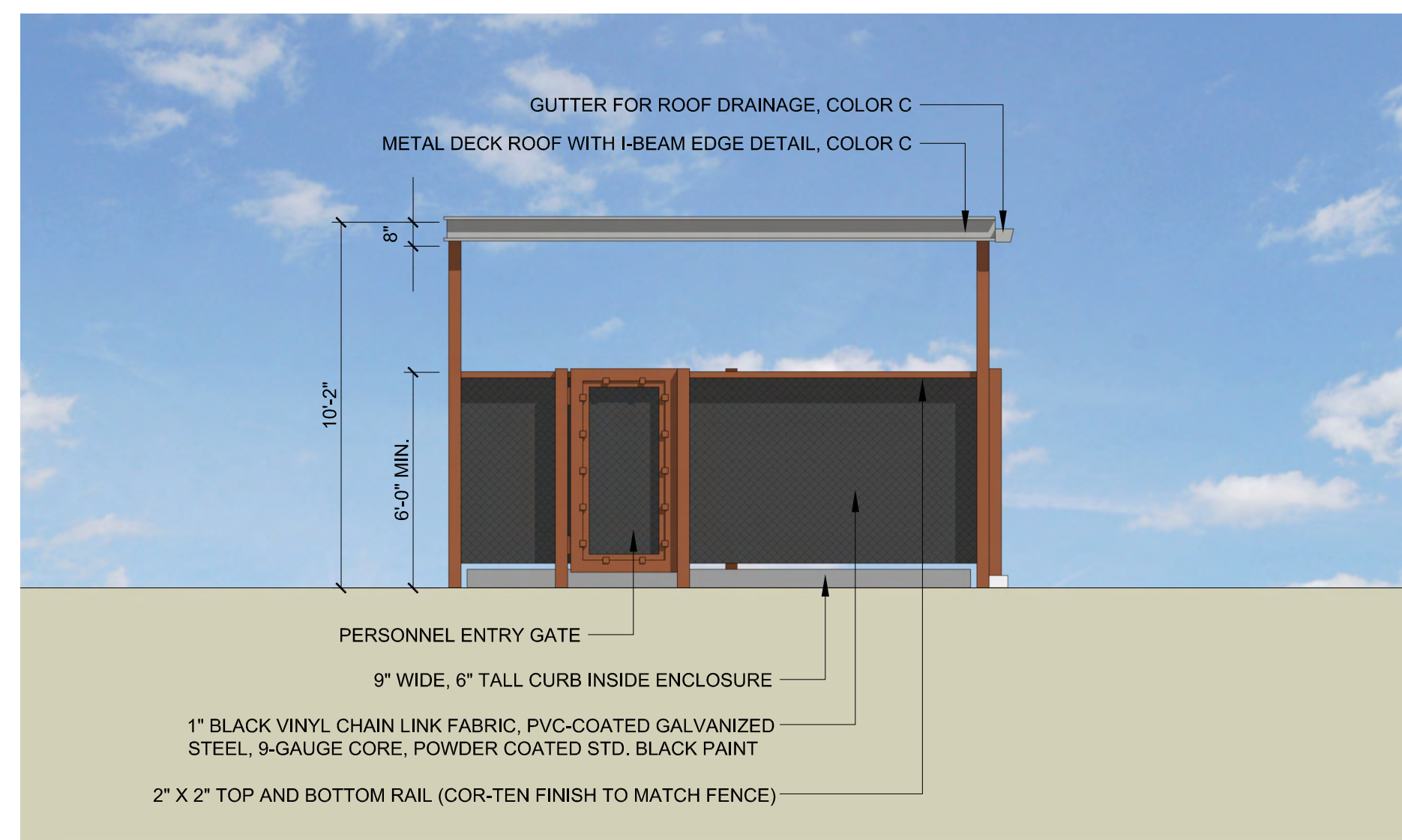
**5** ENLARGED SOUTH ELEVATION  
1/8"=1'-0"



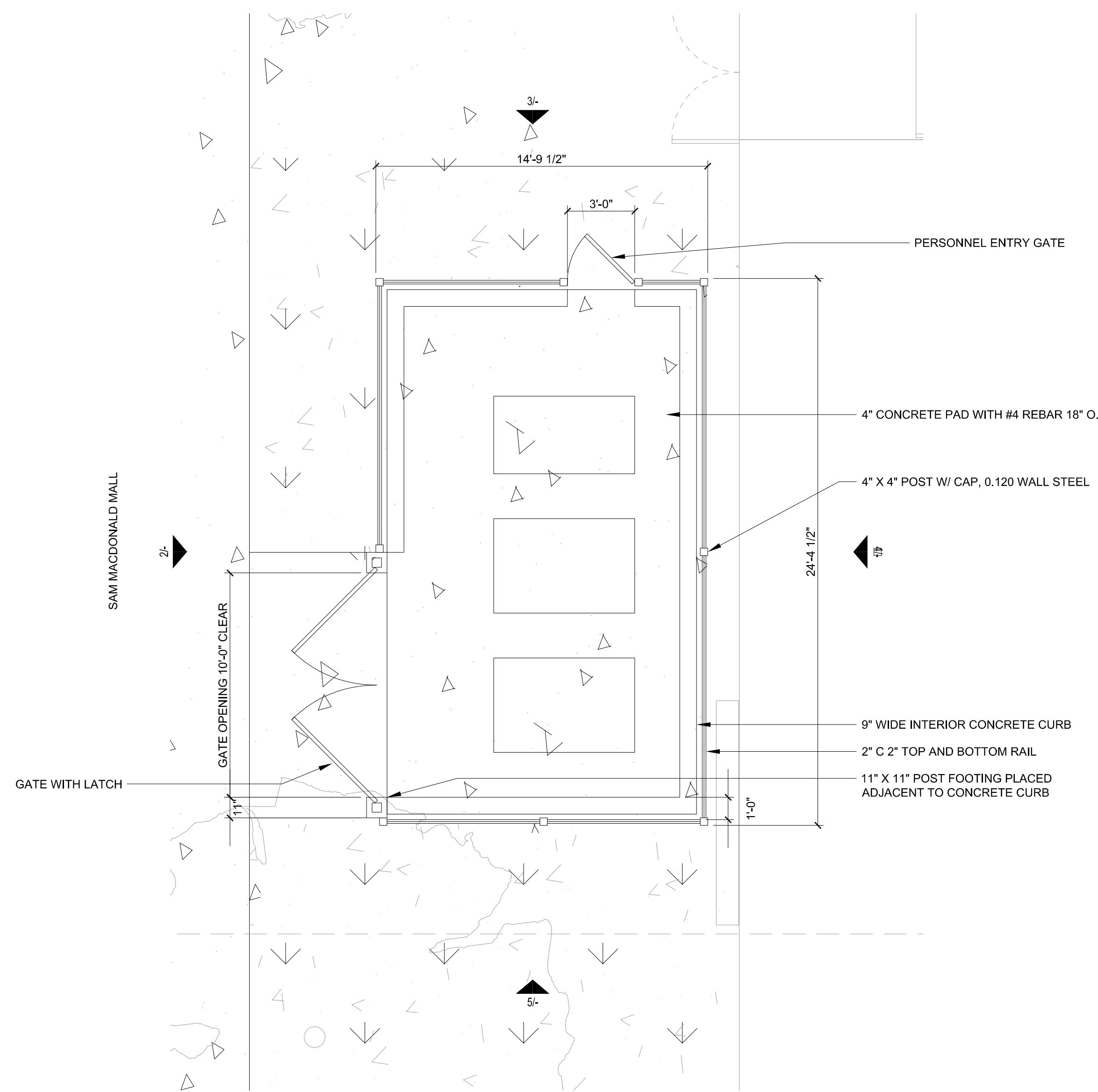
**2** ENLARGED EAST ELEVATION  
1/8"=1'-0"



**4** ENLARGED WEST ELEVATION  
1/8"=1'-0"



**3** ENLARGED NORTH ELEVATION  
1/8"=1'-0"



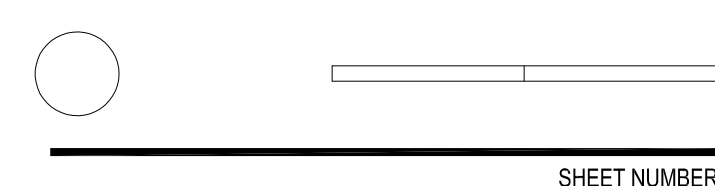
**1** ENLARGED PLAN  
1/8"=1'-0"

ISSUES AND REVISIONS	
NO.	DESCRIPTION
01.27.2023	ASA SET
05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
 22012

SHEET TITLE  
**TENNIS CENTER ENLARGED  
 TRASH ENCLOSURE PLAN & ELEVATIONS**

SCALE  
 AS NOTED



**A3-10**



Project Name: Varsity Tennis Center  
Project Address: 275 Sam McDonald Mall,  
Stanford CA. 94305  
Quad/ Bldg. Number: 09-345



**ARCHITECTS**  
KORTH SUNSERI HAGEY



2 | VIEW FROM CHUCK TAYLOR GROVE

ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	01.27.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1



1 | VIEW FROM AVERY AQUATICS CENTER

PROJECT NUMBER  
22012

SHEET TITLE  
**TENNIS CENTER  
RENDERINGS**

SCALE  
AS NOTED



SHEET NUMBER

A4-1



Project Name: Varsity Tennis Center  
Project Address: 275 Sam McDonald Mall,  
Stanford CA, 94305  
Quad/ Bldg. Number: 09-345



2 | VIEW FROM AVERY AQUATICS CENTER



1 | VIEW FROM ROOF TERRACE

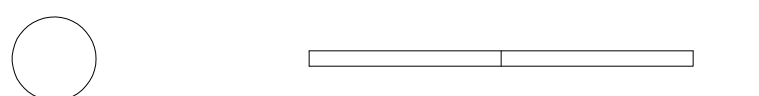
ISSUES AND REVISIONS

NO.	DATE	DESCRIPTION
01.27.2023	ASA SET	
05.03.2023	ASA RESUBMITTAL #1	

PROJECT NUMBER  
22012

SHEET TITLE  
**TENNIS CENTER  
RENDERINGS**

SCALE  
AS NOTED



SHEET NUMBER

A4-2



Project Name: Varsity Tennis Center  
Project Address: 275 Sam McDonald Mall,  
Stanford CA, 94305  
Quad/ Bldg. Number: 09-345



2 | VIEW FROM TENNIS COURTS

ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	01.27.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1

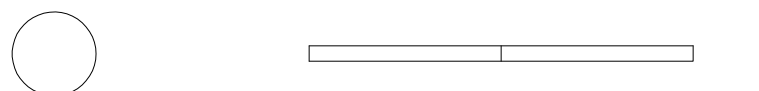


1 | VIEW FROM TENNIS COURTS

PROJECT NUMBER  
22012

SHEET TITLE  
**TENNIS CENTER  
RENDERINGS**

SCALE  
AS NOTED



SHEET NUMBER

A4-3



Project Name: Varsity Tennis Center  
Project Address: 275 Sam McDonald Mall,  
Stanford CA, 94305  
Quad/ Bldg. Number: 09-345



**ARCHITECTS**  
KORTH SUNSERI HAGEY



2 | VIEW FROM TENNIS COURTS

ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	01.27.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1



1 | VIEW FROM CAMPUS DRIVE

PROJECT NUMBER  
22012

SHEET TITLE  
**TENNIS CENTER  
RENDERINGS**

SCALE  
AS NOTED



SHEET NUMBER

**A4-4**





**Stanford Main Tennis Stadium**  
 Stanford, CA

**Lighting System**

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
T1	80'	80'	5	TLC-LED-1500	7.05 kW	A
T2	80'	80'	5	TLC-LED-1500	7.05 kW	A
T3	80'	80'	5	TLC-LED-1500	7.05 kW	B
T4	80'	80'	5	TLC-LED-1500	7.05 kW	C
T5	70'	70'	5	TLC-LED-1500	7.05 kW	C
T6	70'	70'	5	TLC-LED-1500	7.05 kW	C
T7	70'	70'	5	TLC-LED-1500	7.05 kW	B
T8	70'	70'	5	TLC-LED-1500	7.05 kW	A
T9	80'	80'	3	TLC-LED-1500	4.23 kW	D
T10	80'	80'	3	TLC-LED-1500	4.23 kW	E
T11	80'	80'	3	TLC-LED-1500	4.23 kW	F
T12	80'	80'	3	TLC-LED-1500	4.23 kW	E
<b>12</b>			<b>96</b>		<b>135.36 kW</b>	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Tennis 1-2	28.2 kW	20
B	Tennis 3-4	28.2 kW	20
C	Tennis 5-6	28.2 kW	20
D	Tennis 7-8	16.92 kW	12
E	Tennis 9-10	16.92 kW	12
F	Tennis 11-12	16.92 kW	12

Single Luminaire Amperage Draw Chart							
Driver (90 min power factor)	Max Line Amperage Per Luminaire						
Single Phase Voltage	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6

Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	96

**Light Level Summary**

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Horizontal Blanket Grid	Horizontal Illuminance	6.45	0	96	90822.53		A,B,C,D,E, F	96
Tennis 10	Horizontal Illuminance	106	80	130	1.63	1.32	E	12
Tennis 11	Horizontal Illuminance	101	83	119	1.44	1.21	F	12
Tennis 12	Horizontal Illuminance	102	87	120	1.38	1.18	F	12
Tennis 1	Center Main	104	89	118	1.33	1.17	A	20
Tennis 1	Horizontal Illuminance	179	132	197	1.50	1.35	A	20
Tennis 2	Center Main	101	85	116	1.36	1.19	A	20
Tennis 2	Horizontal Illuminance	172	122	193	1.59	1.41	A	20
Tennis 3	Center Main	101	82	124	1.51	1.23	B	20
Tennis 3	Horizontal Illuminance	160	121	188	1.56	1.32	B	20
Tennis 4	Center Main	101	79	126	1.59	1.28	B	20
Tennis 4	Horizontal Illuminance	160	121	190	1.57	1.32	B	20
Tennis 5	Center Main	101	88	116	1.32	1.15	C	20
Tennis 5	Horizontal Illuminance	171	126	196	1.55	1.36	C	20
Tennis 6	Center Main	101	82	113	1.38	1.23	C	20
Tennis 6	Horizontal Illuminance	175	132	197	1.50	1.33	C	20
Tennis 7	Horizontal Illuminance	107	89	123	1.37	1.21	D	12
Tennis 8	Horizontal Illuminance	107	90	127	1.41	1.19	D	12
Tennis 9	Horizontal Illuminance	106	79	137	1.75	1.34	E	12
Tennis Courts	Horizontal	171	93	264	2.84	1.83	A,B,C,D,E, F	96
Vertical Blanket Grid	Max Vert Illuminance (by Light Bank)	6.68	0	99	27058.12		A,B,C,D,E, F	96

ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	01.27.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22012

SHEET TITLE  
**TENNIS CENTER POLE LIGHTING  
EXHIBIT AND PHOTOMETRICS**

SCALE  
N.T.S.

SHEET NUMBER



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**PROJECT SUMMARY**

A5-0





EQUIPMENT LIST FOR AREAS SHOWN							
Pole				Luminaires			
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID OTHER GRIDS
2	T1, T4	80'	-	80'	TLC-LED-1500	5	5 0
2	T2-T3	80'	-	80'	TLC-LED-1500	10	10 0
2	T5, T8	70'	14.5'	84.5'	TLC-LED-1500	5/3*	8 0
2	T6-T7	70'	14.5'	84.5'	TLC-LED-1500	10/6*	16 0
2	T9, T12	80'	0'	80'	TLC-LED-1500	3	3 0
2	T10-T11	80'	0'	80'	TLC-LED-1500	6	6 0
12	TOTALS					96	96 0

\* This structure utilizes a back-to-back mounting configuration

**Stanford Main Tennis Stadium**  
 Stanford, CA

GRID SUMMARY	
Name:	Tennis Courts
Size:	1 Court - 12' Spacing
Spacing:	20.0' x 20.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	170.60
Maximum:	264
Minimum:	93
Avg / Min:	1.83
Max / Min:	2.84
UG (adjacent pts):	1.49
CU:	0.69
No. of Points:	160
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F
No. of Luminaires:	96
Total Load:	135.36 kW

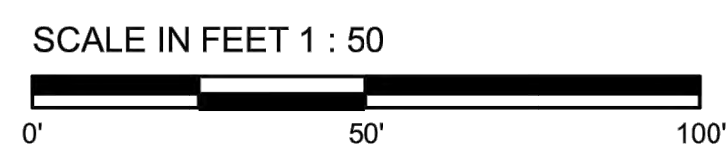
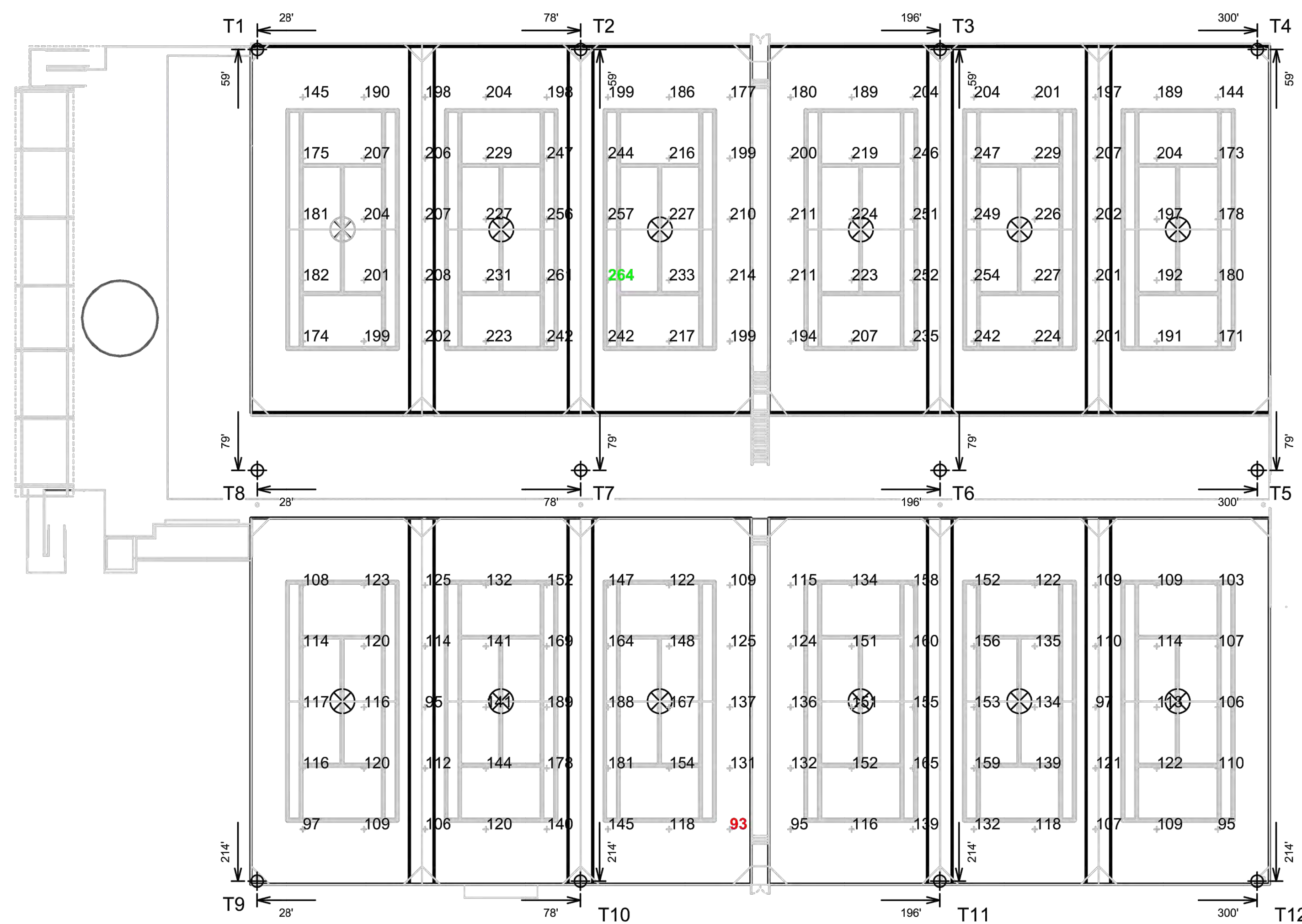
**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	01.27.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1



ENGINEERED DESIGN By: D. Lohman · File #218368E · 24-Apr-23

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗



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**ILLUMINATION SUMMARY**

PROJECT NUMBER  
22012

SHEET TITLE  
**TENNIS CENTER POLE LIGHTING  
EXHIBIT AND PHOTOMETRICS**

SCALE  
N.T.S.

SHEET NUMBER

A5-1

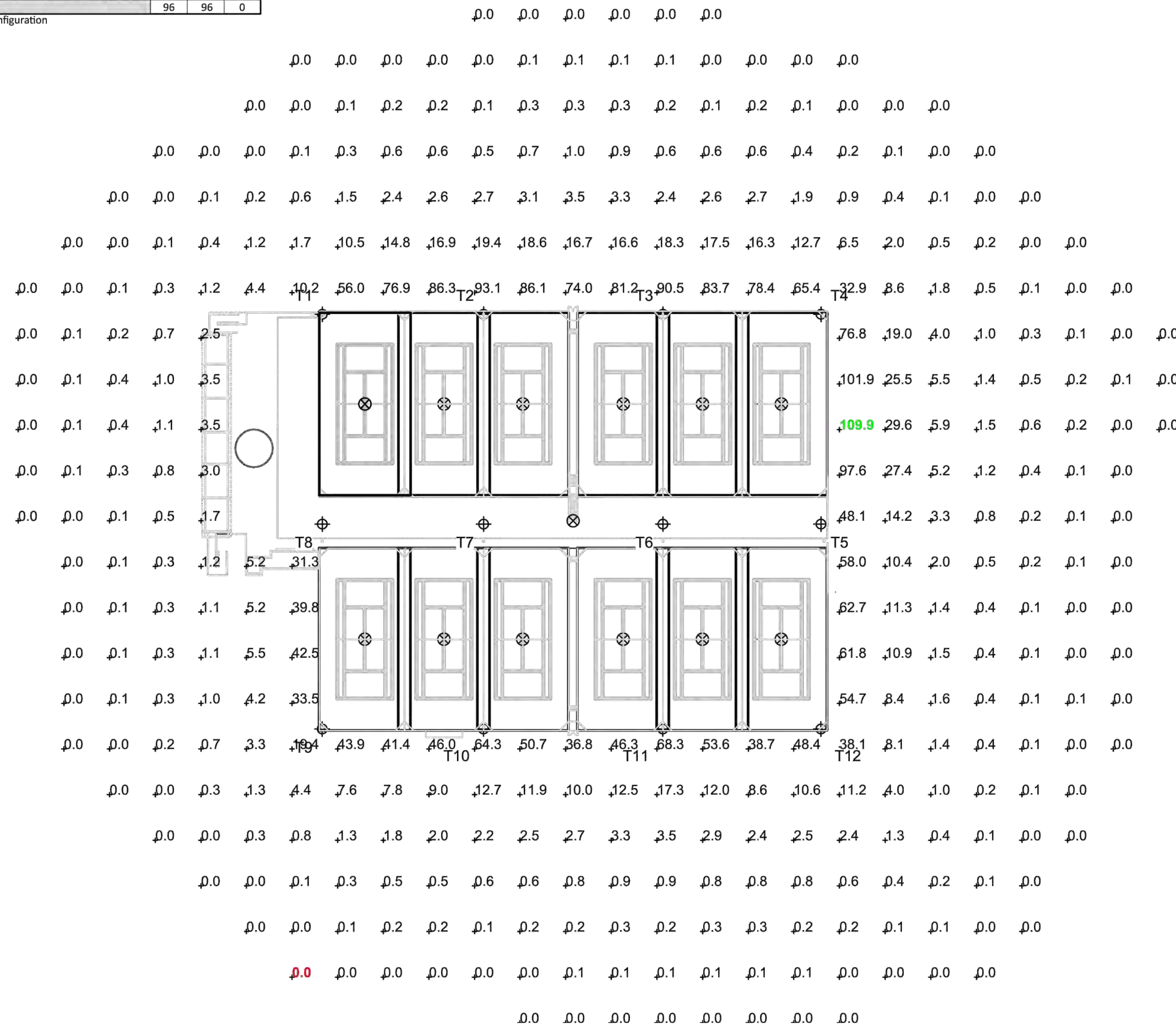




GENERAL NOTE:  
 THE "TOP" SET OF COURTS SHALL BE LIT TO A LEVEL SUITABLE FOR TELEVISED MATCHES.  
 THE "BOTTOM" SET OF COURTS SHALL BE LIT FOR NON-TELEVISED HIGH LEVEL COLLEGIATE PLAY.  
 AS A RESULT, MORE FIXTURES ARE REQUIRED & PROVIDED TO LIGHT THE "TOP" SET OF COURTS TO THE ADEQUATE LIGHT LEVELS.  
 "TOP" SET OF COURT FIXTURES ALSO NEED TO BE AIMED DIFFERENTLY THAN THOSE ON THE "BOTTOM" COURTS.  
 THIS RESULTS IN THE SPILL BEING HIGHER AROUND THE PERIMETER OF THE "TOP" COURTS COMPARED TO THE "BOTTOM" COURTS.

EQUIPMENT LIST FOR AREAS SHOWN								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY/ POLE	THIS GRID OTHER GRIDS	
2	T1, T4	80'	-	80'	TLC-LED-1500	5	5 0	
2	T2-T3	80'	-	80'	TLC-LED-1500	10	10 0	
2	T5, T8	70'	14.5'	84.5'	TLC-LED-1500	5/3*	8 0	
2	T6-T7	70'	14.5'	84.5'	TLC-LED-1500	10/6*	16 0	
2	T9, T12	80'	0'	80'	TLC-LED-1500	3	3 0	
2	T10-T11	80'	0'	80'	TLC-LED-1500	6	6 0	
12	TOTALS						96	96 0

\* This structure utilizes a back-to-back mounting configuration



ENGINEERED DESIGN By: D. Lohman · File #218368E · 05-Jun-23

Pole location(s) ⊕ dimensions are relative to 0,0 reference point(s) ⊗

Stanford Main Tennis Stadium  
 Standford, CA

GRID SUMMARY	
Name:	Blanket Grid
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	8.27
Maximum:	110
Minimum:	0
Avg / Min:	2044.54
Max / Min:	27170.54
UG (adjacent pts):	8.45
CU:	0.15
No. of Points:	366
LUMINAIRE INFORMATION	
Applied Circuits:	A, B, C, D, E, F
No. of Luminaires:	96
Total Load:	135.36 kW

**Guaranteed Performance:** The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

**Field Measurements:** Individual field measurements may vary from computer-calculated predictions and should be taken in accordance with IESNA RP-6-15.

**Electrical System Requirements:** Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

**Installation Requirements:** Results assume ± 3% nominal voltage at line side of the driver and structures located within 3 feet (1m) of design locations.

ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
01.27.2023	ASA SET	
05.03.2023	ASA RESUBMITTAL #1	
06.05.2023	ASA RESUBMITTAL #1	

PROJECT NUMBER  
22012

SHEET TITLE  
 TENNIS CENTER POLE LIGHTING  
 EXHIBIT AND PHOTOMETRICS

SCALE  
 N.T.S.

SHEET NUMBER



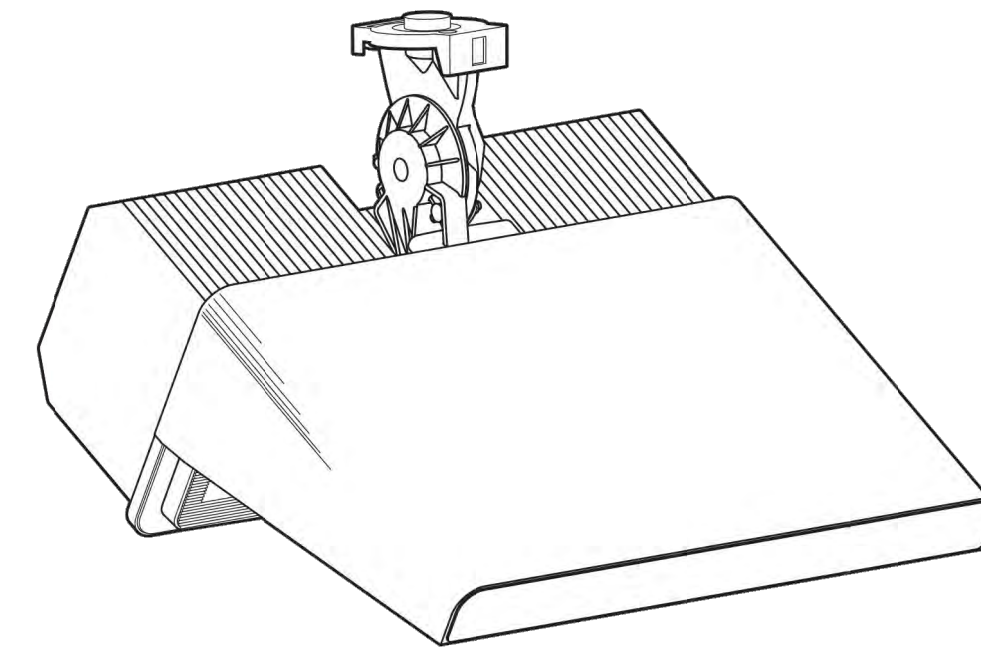
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ILLUMINATION SUMMARY

A5-2



Datasheet: **TLC-LED-1500 Luminaire and Driver**



**Luminaire Data**

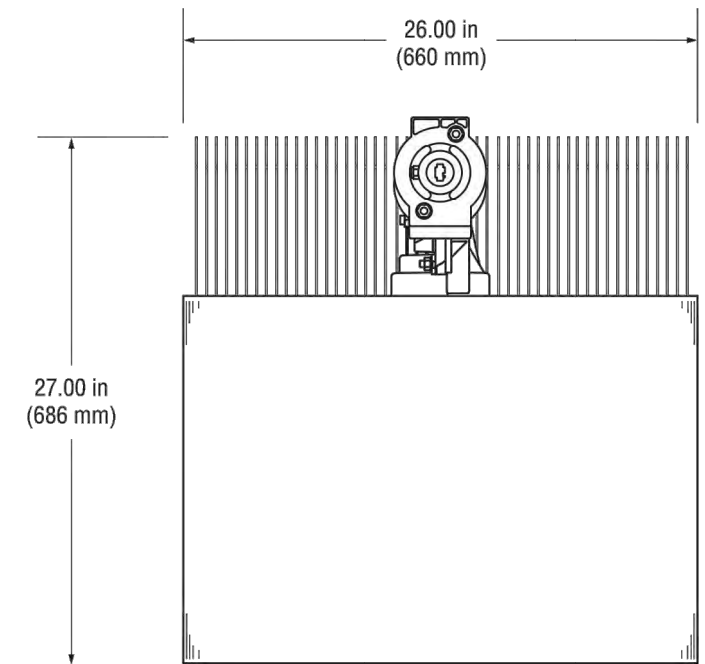
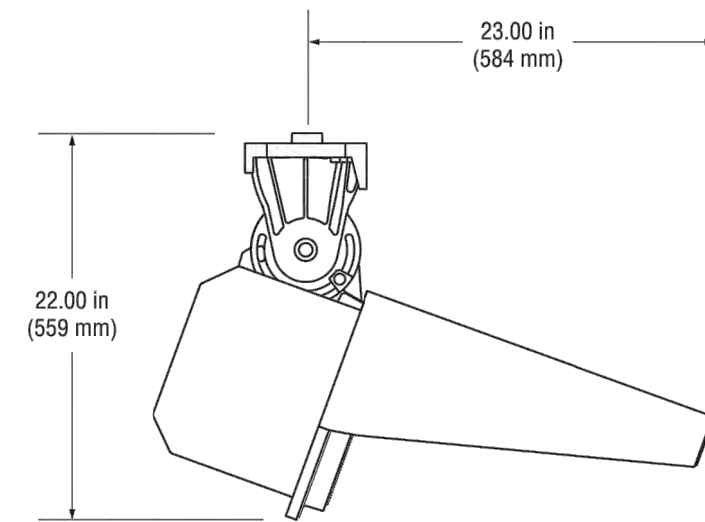
Weight (luminaire)	67 lb (30 kg)
UL listing number	E338094 (pending)
UL listed for USA/Canada	UL1598 CSA-C22.2 No.250.0 (pending)
CE Declaration	LVD, EMC, RoHS
Ingress protection (luminaire)	IP65
Impact rating	IK07
Material and finish	Aluminum, powder-coat painted
Wind speed rating (aiming only)	150 mi/h (67 m/s)
UL, IEC ambient temperature rating (luminaire)	50°C (122°F) (pending)

**Photometric Characteristics**

Projected lumen maintenance per IES TM-21-11	
L90 (20k)	>120,000 h
L80 (20k)	>120,000 h
L70 (20k)	>120,000 h
Lumens <sup>1</sup>	181,000
CIE correlated color temperature	5700 K
Color rendering index (CRI)	75 typ, 70 min
LED binning tolerance	5-step MacAdam Ellipse

Footnotes:

- 1) Incorporates appropriate dirt depreciation factor for life of luminaire.



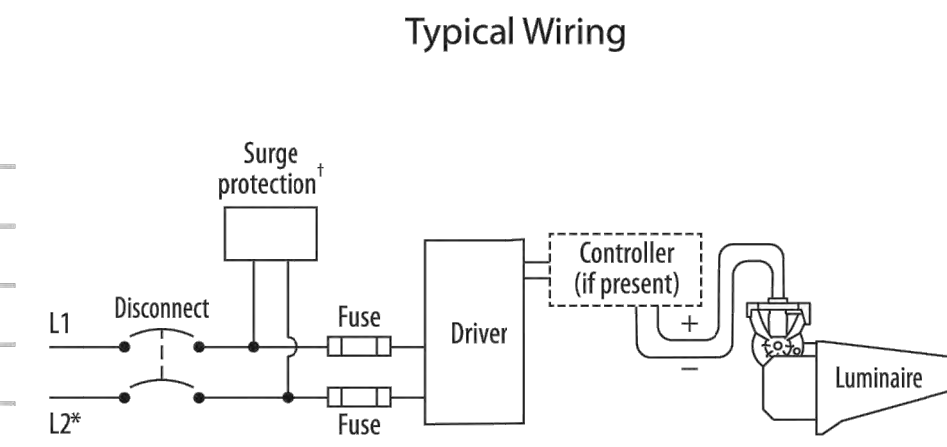
U.S. and foreign patent(s) issued and pending • ©2023 Musco Sports Lighting, LLC • TLC-LED-1500 5700K 75 CRI Typ • M-2955-en04-6\_2023  
www.musco.com • lighting@musco.com

Datasheet: **TLC-LED-1500 Luminaire and Driver**

**Driver Data**

**Electrical Data**

Rated wattage <sup>1</sup>	
Per driver	1410 W
Per luminaire	1410 W
Number of luminaires per driver	1
Starting (inrush) current	<40 A, 256 μs
Fuse rating	15 A
UL, IEC ambient temperature rating (electrical components enclosure)	50°C (122°F) (pending)
Ingress protection (electrical components enclosure)	IP54
Efficiency	95%
Dimming mode	optional
Range, energy consumption	10 – 100%
Range, light output	15 – 100%
Flicker	<2%
Total harmonic distortion (THD) at full output	<20% (pending)



\* If L2 is neutral then not switched or fused.  
† Not present if indoor installation.

	200 Vac 50/60 Hz	208 Vac 60 Hz	220 Vac 50/60 Hz	230 Vac 50 Hz	240 Vac 50/60 Hz	277 Vac 60 Hz	347 Vac 60 Hz	380 Vac 50/60 Hz	400 Vac 50 Hz	415 Vac 50 Hz	480 Vac 60 Hz
Max operating current per luminaire <sup>2</sup>	8.71 A	8.37 A	7.92 A	7.57 A	7.26 A	6.29 A	5.02 A	4.59 A	4.36 A	4.20 A	3.63 A

Footnotes:

- 1) Rated wattage is the power consumption, including driver efficiency losses, at stabilized operation in 25°C ambient temperature environment.
- 2) Operating current includes allowance for 0.90 minimum power factor, operating temperature, and LED light source manufacturing tolerances.

Notes

1. Use thermal magnetic HID-rated or D-curve circuit breakers.
2. See *Musco Control System Summary* for circuit information.



U.S. and foreign patent(s) issued and pending • ©2023 Musco Sports Lighting, LLC • TLC-LED-1500 5700K 75 CRI Typ • M-2955-en04-6\_2023  
www.musco.com • lighting@musco.com

Project Name: Varsity Tennis Center  
Project Address: 275 Sam McDonald Mall,  
Stanford CA. 94305  
Quad/ Bldg. Number: 09-345



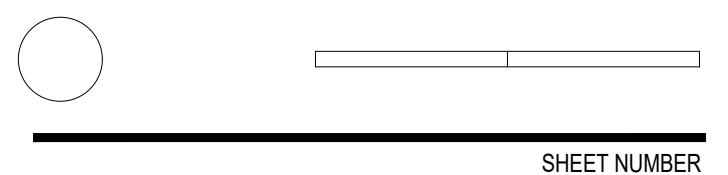
ISSUES AND REVISIONS

NO.	DATE	DESCRIPTION
	01.27.2023	ASA SET
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22012

SHEET TITLE  
**TENNIS CENTER POLE LIGHTING  
CUTSHEETS**

SCALE  
N.T.S.



SHEET NUMBER



Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA, 94305  
 Quad/ Bldg. Number: 09-345



**ARCHITECTS**  
 KORTH SUNSERI HAGEY

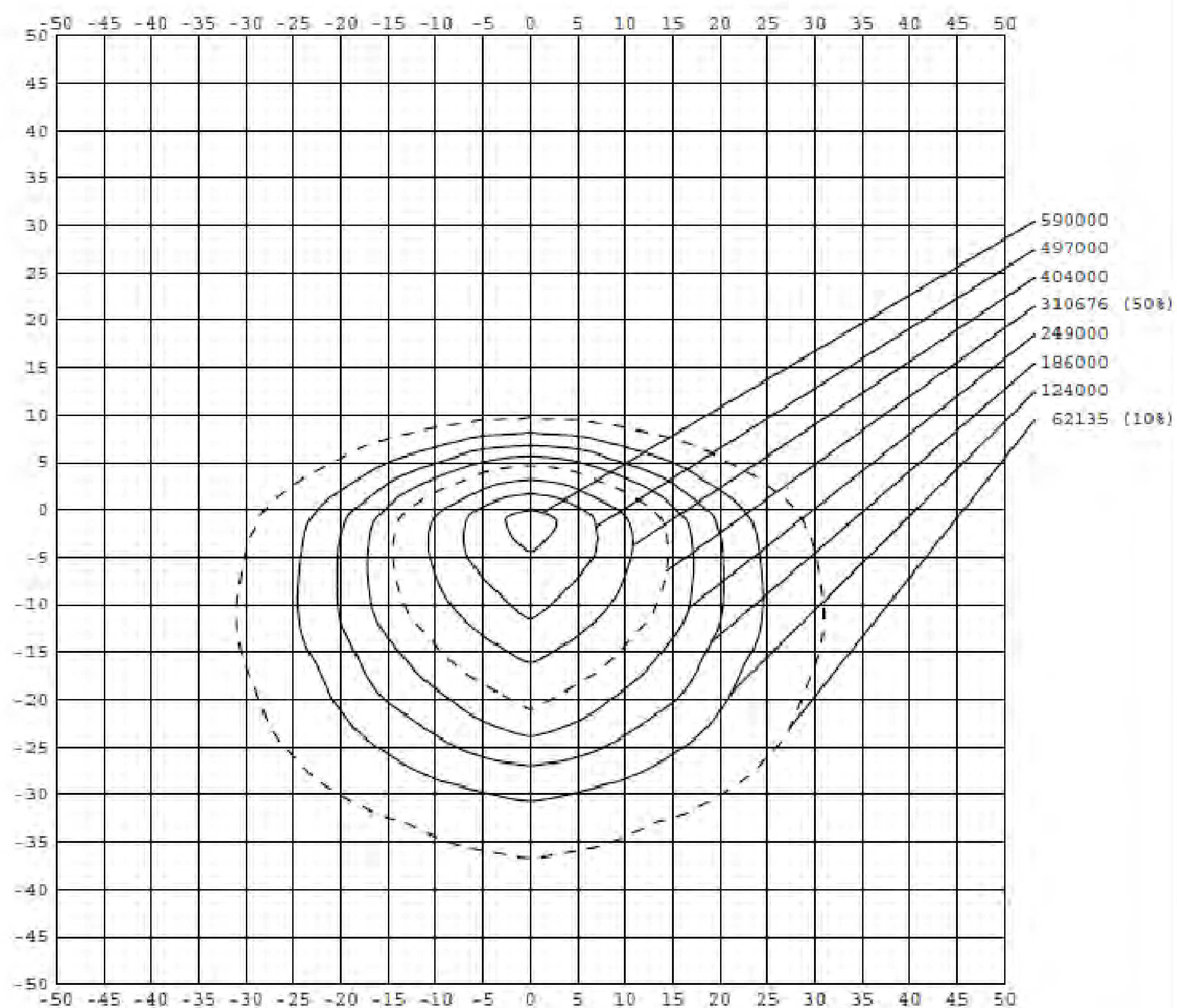


Musco Lighting Photometry Laboratory  
 Oskaloosa, Iowa



REPORT NUMBER: MPL03031  
 ISSUE DATE: 07/06/21  
 CATALOG NUMBER: L352N\_4WYX\_ANBCB\_30

ISOCANDELA CURVES



ISSUES AND REVISIONS

NO.	DATE	DESCRIPTION
01.27.2023	01.27.2023	ASA SET
05.03.2023	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
22012

SHEET TITLE  
**TENNIS CENTER POLE LIGHTING  
 BEAM PATTERN DIAGRAMS**

SCALE  
 N.T.S.



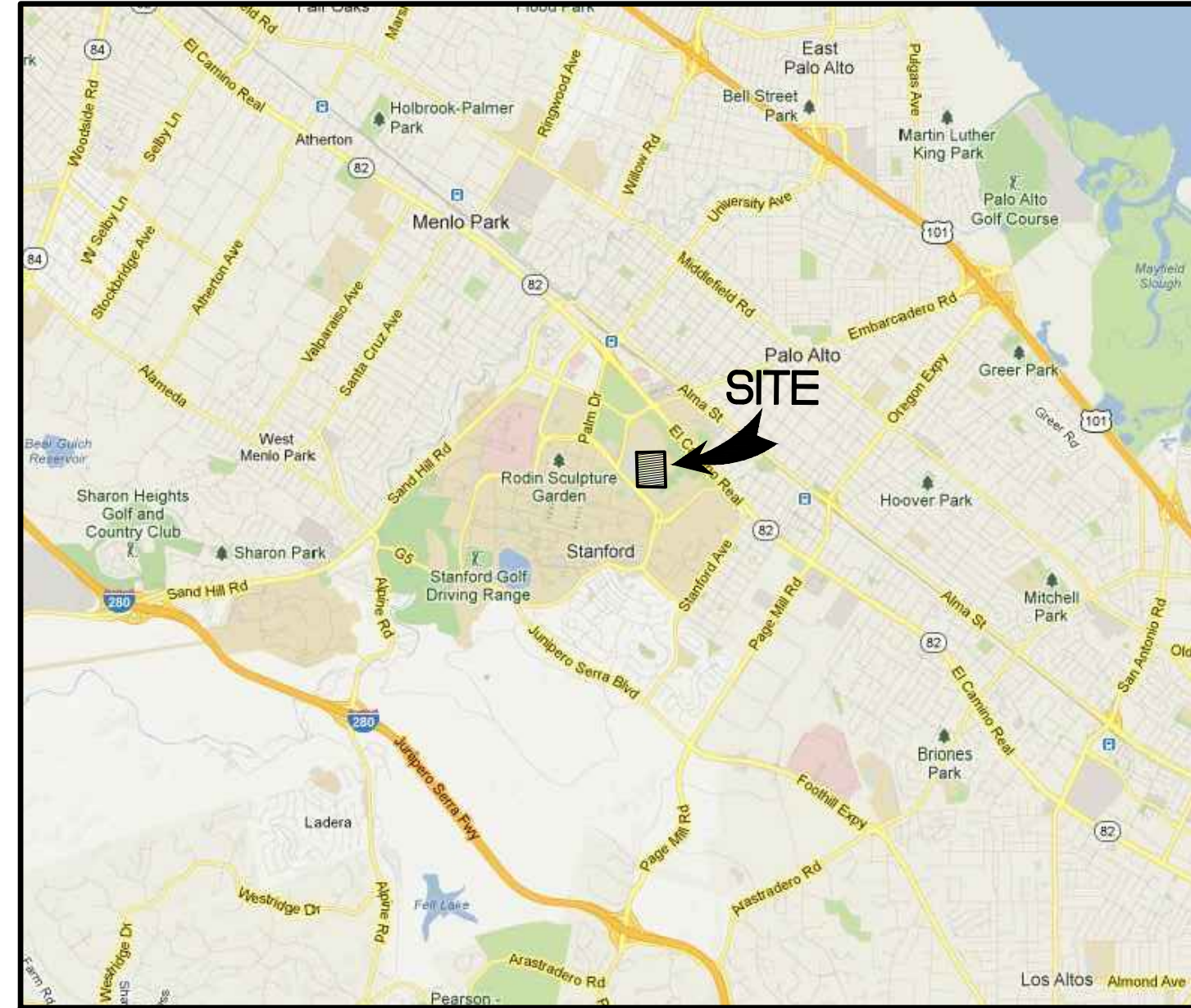
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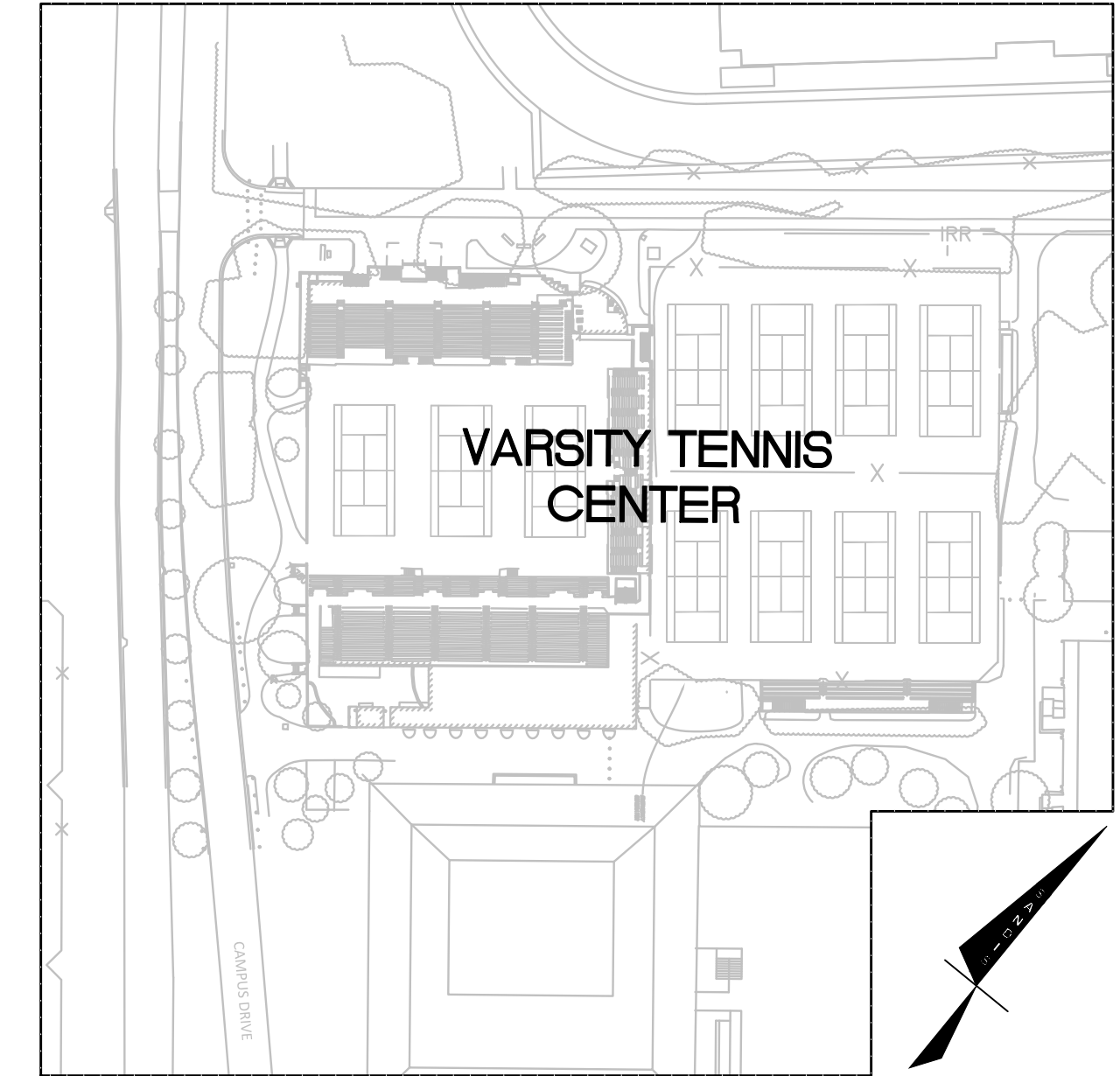
# ABBREVIATIONS

AB	-	AGGREGATE BASE
AC	-	ASPHALT CONCRETE
AD	-	AREA DRAIN
ADA	-	AMERICANS WITH DISABILITIES ACT
ASB	-	AGGREGATE SUBBASE
BC	-	BEGINNING OF CURVE
BFP	-	BACK FLOW PREVENTOR
BLDC	-	BUILDING CORNER
BLDG	-	BUILDING
BOD	-	BOTTOM OF DOCK
BOL	-	BOLLARD
BOS	-	BOTTOM OF STEP
BOW	-	FG @ BOTTOM OF WALL
BVC	-	BEGIN VERTICAL CURVE
BW	-	BACK OF WALK
C	-	CONCRETE OR CIVIL
C&G	-	CURB AND GUTTER
CB	-	CATCH BASIN
CI	-	COMBINATION INLET
CIP	-	CAST IRON PIPE
CL	-	CENTER LINE OR CLASS
CMF	-	CORRUGATED METAL PIPE
CO	-	CLEANOUT
COI	-	CURB OPENING INLET
CONC	-	CONCRETE
CONST	-	CONSTRUCTION OR CONSTRUCT
CY	-	CUBIC YARD
DCDA	-	DOUBLE CHECK DETECTOR ASSEMBLY
DI	-	DROP INLET
DIP	-	DUCTILE IRON PIPE
DOM	-	DOMESTIC
DW	-	DOMESTIC WATER
DWG	-	DRAWING
E	-	EAST
EC	-	END OF CURVE
EP	-	EDGE OF PAVEMENT
ER	-	END OF RETURN
EVC	-	END VERTICAL CURVE
ELEV	-	ELEVATION
EX, EXIST.	-	EXISTING
FC	-	FACE OF CURB
FDC	-	FIRE DEPARTMENT CONNECTION
FF	-	FINISHED FLOOR
FG	-	FINISHED GRADE
FH	-	FIRE HYDRANT
FL	-	FLOW LINE
FOUND	-	FOUNDATION
FS	-	FINISHED SURFACE
FT	-	FOOT
FW	-	FIRE WATER
G	-	GROUND ELEVATION
GB	-	GRADE BREAK
GV	-	GATE VALVE
HCR	-	ACCESSIBLE RAMP
HP	-	HIGH POINT
INV	-	INVERT ELEVATION
JP	-	JOINT POLE
JT	-	JOINT TRENCH
LP	-	LIP OF GUTTER
LP	-	LOW POINT
LSA	-	LANDSCAPE ARCHITECT
MAX	-	MAXIMUM
MEP	-	MECHANICAL/ELECTRICAL/PLUMBING
MH	-	MANHOLE
MIN	-	MINIMUM
MPVC	-	MIDPOINT OF VERTICAL CURVE
MON	-	MONUMENT
N	-	NORTH
N.I.C.	-	NOT IN CONTRACT
NO	-	NUMBER
NTS	-	NOT TO SCALE
P	-	PAVEMENT ELEVATION
PCC	-	PORTLAND CEMENT CONCRETE / POINT OF CONTINUOUS CURVATURE
PIV	-	POST INDICATOR VALVE
PL	-	PROPERTY LINE
PMH	-	POWER MANHOLE
POC	-	POINT ON CURVE
PP	-	POWER POLE
PRC	-	POINT OF REVERSE CURVATURE
PVC	-	POLYVINYL CHLORIDE PIPE
R	-	RADIUS
RC	-	RELATIVE COMPACTION
RCP	-	REINFORCED CONCRETE PIPE
RPPA	-	REDUCED PRESSURE PRINCIPLE ASSEMBLY
R/W	-	RIGHT OF WAY
S	-	SLOPE OR SOUTH
S.A.D.	-	SEE ARCHITECTURAL DRAWINGS
SB	-	SEDIMENT BASIN
SD	-	STORM DRAIN
S.E.D.	-	SEE ELECTRICAL DRAWINGS
SF	-	SILT FENCE
SG	-	SUBGRADE
S.L.D.	-	SEE LANDSCAPE DRAWINGS
S.M.D.	-	SEE MECHANICAL DRAWINGS
SMH	-	SIGNAL MANHOLE
S.P.D.	-	SEE PLUMBING DRAWINGS
SS	-	SANITARY SEWER
STA	-	STATION
STD	-	STANDARD
S/W	-	SIDEWALK
TC	-	TOP OF CURB
TD	-	TRENCH DRAIN
TOD	-	TOP OF DOCK
TOE	-	TOE OF SLOPE
TOS	-	TOP OF STAIR
TOW	-	FG @ TOP OF WALL
TS	-	TOP OF SLAB
TS	-	TYPICAL
UON	-	UNLESS OTHERWISE NOTED
U/G	-	UNDERGROUND
VC	-	VERTICAL CURVE
WM	-	WATER METER
WV	-	WATER VALVE
W	-	WEST
W/F	-	WELDED WIRE FABRIC
W/	-	WITH

# STANFORD UNIVERSITY VARSITY TENNIS CENTER BUILDING 09-345 PALO ALTO CALIFORNIA



VICINITY MAP  
NOT TO SCALE



SITE MAP  
NOT TO SCALE

## EARTHWORK FOR CONSTRUCTION NOTE

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE ALL MATERIAL AND LABOR REQUIRED WITHIN THE BID PRICE, FOR EARTHWORK CONSTRUCTION, TO CARRY OUT THE CUT/FILL AND/OR IMPORT/EXPORT AS NECESSARY TO MEET THE DESIGN GRADES SHOWN ON THE PLANS. CONTRACTOR IS TO DELIVER TO OWNER THE PROJECT IN A COMPLETE AND OPERATIONAL MANNER.

## TOPOGRAPHIC SURVEY NOTES

TOPOGRAPHIC SURVEY INFORMATION SHOWN HEREON IS BASED UPON MULTIPLE SUPPLEMENTAL TOPOGRAPHIC SURVEYS COMPLETED BY SANDIS, UNDER THE DIRECTION OF LAURA CABRAL, PLS 7756, IN ADDITION TO BASEMAP INFORMATION PROVIDED BY STANFORD UNIVERSITY.

## DEMOLITION NOTES

- CONTRACTOR SHALL PROVIDE LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR DEMOLISHING, CUTTING, CAPPING, REMOVING AND DISPOSING OF EXISTING IMPROVEMENTS AS DESIGNATED AND SHOWN ON THE DRAWINGS AND AS REQUIRED, UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL DEMOLISH, ABANDON OR REROUTE EXISTING UTILITIES AS REQUIRED FOR NEW CONSTRUCTION. UTILITIES AND APPURTENANCES TO REMAIN WITHIN THE PROJECT LIMIT OF WORK SHALL BE PROTECTED.
- CONTRACTOR SHALL MAINTAIN THE EXISTING SITE LIGHTING SYSTEM UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL COORDINATE ALL UTILITY SHUT-DOWNS WITH THE OWNER'S REPRESENTATIVE.
- ITEMS INDICATED TO BE SALVAGED SHALL BE REMOVED CAREFULLY, CLEANED AND DELIVERED TO THE OWNER. COORDINATE WITH THE OWNER'S REPRESENTATIVE.
- CONTRACTOR SHALL PERFORM WORK IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

## SCOPE OF WORK

CLEAR AND GRUB, BUILDING AND PAVEMENT DEMOLITION, UTILITY WORK, TEMPORARY AND PERMANENT EROSION CONTROL, AND ALL OTHER ASSOCIATED WORK FOR EXPANSION OF LOCKER ROOM.

## STREET CLEANING NOTE

THE PRIME CONTRACTOR OR DEVELOPER IS TO HIRE A STREET CLEANING CONTRACTOR TO CLEAN UP DIRT AND DEBRIS FROM UNIVERSITY STREETS THAT ARE ATTRIBUTABLE TO THE DEVELOPMENT'S CONSTRUCTION ACTIVITIES. THE STREET CLEANING CONTRACTOR IS TO HAVE THE CAPABILITY OF WASHING THE STREETS FROM A TANKER TRUCK WITH A HIGH-PRESSURE NOZZLE WITH RECLAIMED WATER, WHERE FEASIBLE, AND/OR SWEEPING THE STREETS WITH BOTH A BROOM-TYPE SWEEPER AND A REGENERATIVE AIR VACUUM SWEEPER, AS DIRECTED BY THE DISTRICT, OR HIS/ HER DESIGNATED REPRESENTATIVE.

## SHUT DOWN NOTE

CONTRACTOR SHALL COORDINATE ALL SYSTEM SHUT DOWNS WITH OWNER. NO SHUT DOWNS OF ANY SERVICES WILL BE ALLOWED WITHOUT PRIOR SCHEDULE APPROVAL OF OWNER AND THEIR TENANTS.

## DISCREPANCIES

IF THERE ARE ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS WHICH WILL AFFECT THE WORK, THE CONTRACTOR SHALL BRING SUCH DISCREPANCIES TO THE ATTENTION OF THE ENGINEER FOR ADJUSTMENT BEFORE PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER FITTING OF ALL WORK AND FOR THE COORDINATION OF ALL TRADES, SUBCONTRACTORS, AND PERSONS ENGAGED UPON THIS CONTRACT.

## HYDROMODIFICATION NOTE

THE PROJECT IS EXEMPT FROM HYDROMODIFICATION REQUIREMENTS PER THE SANTA CLARA COUNTY C.3 TECHNICAL GUIDANCE DOCUMENT. THE PROJECT IS EXEMPT FROM HYDROMODIFICATION DUE TO THE SITE BEING LOCATED IN A WATER SHED THAT DISCHARGES TO A TIDAL AREA, HARDENED CHANNEL, OR DIRECTLY TO THE BAY.

## FLOODZONE

SITE IS LOCATED WITHIN ZONE D BASED ON FIRM MAP PANEL NUMBER 06085 C0016H, DATED MAY 18 2009. ZONE D IS THE AREA DETERMINED TO BE AREAS FOR WHICH FLOOD HAZARDS ARE UNDETERMINED, BUT POSSIBLE.

## UTILITY NOTE

THE TYPES, LOCATIONS, SIZES AND /OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THIS SURVEY.

## GEOTECHNICAL REPORT NOTE

GEOTECHNICAL INVESTIGATION FOR VARSITY TENNIS CENTER BY XXXX, DATED XXX X, XXXX.

## FIRE SYSTEM NOTES

THE CONTRACTOR SHALL DESIGN, PREPARE SHOP DRAWINGS FOR, OBTAIN ALL REQUIRED APPROVALS, AND CONSTRUCT THE FIRE SYSTEM FOR THE PROPOSED PROJECT. CONTRACTOR SHALL HAVE SHOP DRAWINGS STAMPED BY A FIRE PROTECTION ENGINEER AS REQUIRED BY THE LOCAL AUTHORITY.

## ENGINEER'S STATEMENT

I HEREBY STATE THAT THESE PLANS ARE IN COMPLIANCE WITH ADOPTED COUNTY STANDARDS, THE APPROVED TENTATIVE MAP (OR PLAN) AND CONDITIONS OF APPROVAL PERTAINING THERETO DATED \_\_\_\_\_

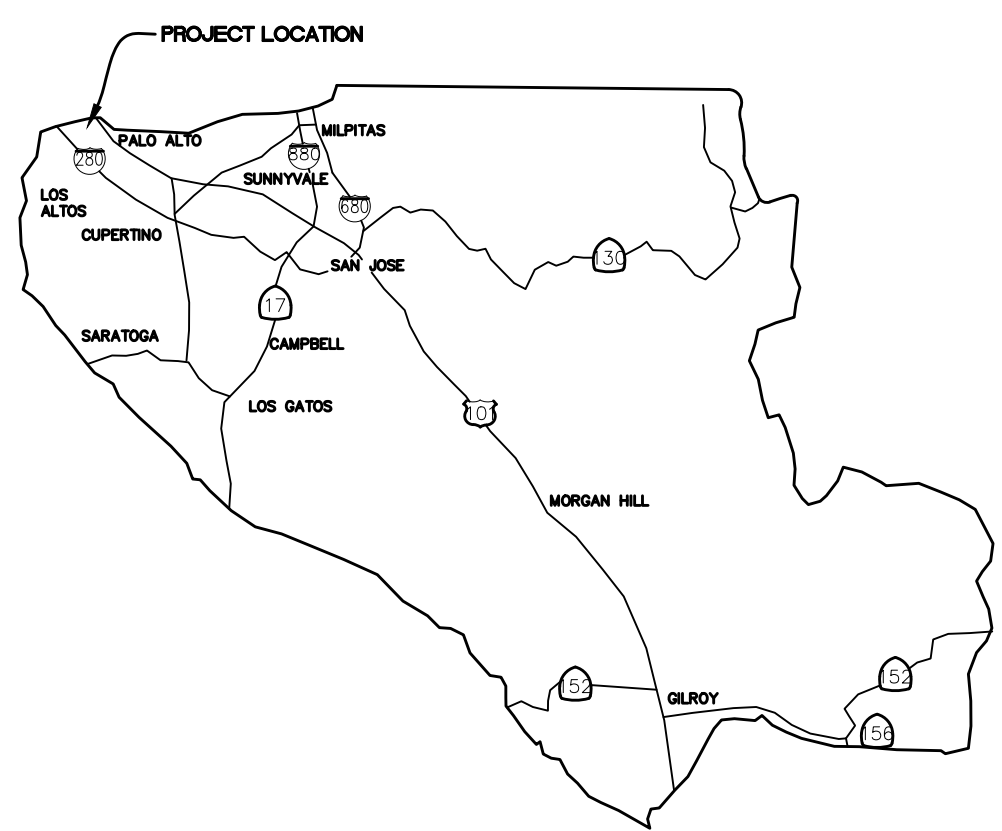
DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_ R.C.E. NO. \_\_\_\_\_ EXPIRATION DATE \_\_\_\_\_

## COUNTY ENGINEER'S NOTE

ISSUANCE OF A PERMIT AUTHORIZING CONSTRUCTION DOES NOT RELEASE THE DEVELOPER, PERMITTEE OF ENGINEER FROM RESPONSIBILITY FOR THE CORRECTION OF ERRORS OR OMISSIONS CONTAINED IN THE PLANS. IF, DURING THE COURSE OF CONSTRUCTION, THE PUBLIC INTEREST REQUIRES A MODIFICATION OF (OR DEPARTURE FROM) THE SPECIFICATIONS OF THE PLANS, THE COUNTY SHALL HAVE THE AUTHORITY TO REQUIRE THE SUSPENSION OF WORK, AND THE NECESSARY MODIFICATION OR DEPARTURE AND TO SPECIFY THE MANNER IN WHICH THE SAME IS TO BE MADE.

DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_ R.C.E. NO. \_\_\_\_\_ EXPIRATION DATE \_\_\_\_\_

COUNTY OF SANTA CLARA  
LAND DEVELOPMENT ENGINEERING & SURVEYING  
CONSTRUCTION PERMIT NO. \_\_\_\_\_  
GRADING PERMIT NO. \_\_\_\_\_  
ISSUED BY: \_\_\_\_\_ DATE: \_\_\_\_\_



COUNTY LOCATION MAP

## CIVIL SHEET INDEX

- C-1.0 COVER SHEET
- C-1.1 CONSTRUCTION NOTES
- C-1.2 FIRE SAFETY NOTES
- C-2.0 TOPOGRAPHIC SURVEY
- C-3.0 DEMOLITION AND TREE DISPOSITION PLAN
- C-3.1 DEMOLITION AND TREE DISPOSITION PLAN
- C-4.0 GRADING AND DRAINAGE PLAN
- C-5.0 UTILITY PLAN
- C-6.0 STORMWATER MANAGEMENT PLAN
- C-7.0 EROSION CONTROL PLAN
- C-7.1 COUNTY BMP NOTES
- C-7.2 COUNTY BMP NOTES
- C-8.0 CONSTRUCTION SITE LOGISTICS AND SAFETY PLAN
- C-9.0 FIRE TRUCK ROUTE PLAN AND FIRE ANALYSIS



## LEGEND

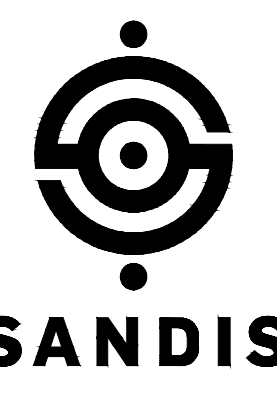
	EXISTING	PROPOSED
SAWCUT AND CONFORM LINE	---	---
RETAINING WALL	[Symbol]	[Symbol]
A.C. PAVEMENT	[Symbol]	[Symbol]
CONC. VALLEY GUTTER	[Symbol]	[Symbol]
CONC. SIDEWALK OR PAD	[Symbol]	[Symbol]
6" CURB & GUTTER	[Symbol]	[Symbol]
EDGE OF A.C. PAVEMENT	[Symbol]	[Symbol]
6" VERTICAL CURB	[Symbol]	[Symbol]
CENTER LINE	---	---
SANITARY SEWER MAIN	8" SS	8" SS
STORM DRAIN MAIN	12" SD	15" SD
PERFORATED PIPE	6" SD	6" SD
WATER MAIN	6" W	6" W
FIRE WATER MAIN	6" FW	4" FW
DOMESTIC WATER MAIN	6" DW	4" DW
CHILLED WATER MAIN	6" CHW	4" CHW
IRRIGATION LINE	2" IRR	4" IRR
HOT WATER SUPPLY & RETURN	HWS-HWR	HWS-HWR
STEAM LINE	ST	ST
LAKE WATER LINE	LW	LW
TRENCH DRAIN	[Symbol]	[Symbol]
CONDENSATE RETURN	CR	CR
FLOW LINE	---	---
CHAIN LINK FENCE	x x x	x x x
GAS MAIN	G	2" G
ELECTRIC AND SIGNAL DUCT BANK	E	E
OVERHEAD ELECTRIC LINE	OHE	OHE
UNDERGROUND ELECTRIC LINE	UGE	UGE
STREET LIGHT CONDUIT	SL	SL
CONTOUR ELEVATION LINE	85	90 89
SPOT ELEVATION	x 95.94	FG 95.94
DIRECTION OF SLOPE	2:1	1:8
GAS METER	[Symbol]	GM
GAS VALVE	[Symbol]	GV
WATER METER	[Symbol]	WM
WATER VALVE	[Symbol]	WV
FIRE HYDRANT	[Symbol]	FH
BACK FLOW PREVENTOR	[Symbol]	BFP
POST INDICATOR VALVE	[Symbol]	PIV
FIRE DEPARTMENT CONNECTION	[Symbol]	FDC
WATER LINE TEE	[Symbol]	[Symbol]
CAP AND PLUG END	[Symbol]	[Symbol]
AIR RELEASE VALVE	[Symbol]	ARV
SIGN	[Symbol]	[Symbol]
ACCESSIBLE RAMP	[Symbol]	[Symbol]
CONCRETE THRUST BLOCK	[Symbol]	[Symbol]
REDUCER	[Symbol]	[Symbol]
SANITARY SEWER MANHOLE	[Symbol]	[Symbol]
SANITARY SEWER CLEANOUT	SSCO	SSCO
STORM DRAIN MANHOLE	[Symbol]	[Symbol]
STORM DRAIN AREA DRAIN	[Symbol]	[Symbol]
STORM DRAIN CATCH BASIN	[Symbol]	[Symbol]
STORM DRAIN CURB INLET	[Symbol]	[Symbol]
STORM DRAIN CLEANOUT	SDCO	SDCO
ELECTROILER	[Symbol]	[Symbol]
JOINT POLE	[Symbol]	[Symbol]
OVERLAND RELEASE	[Symbol]	[Symbol]
CONSTRUCTION DETAIL REFERENCE	[Symbol]	[Symbol]

**UNAUTHORIZED CHANGES AND USES**  
CAUTION: The engineer preparing these plans will not be responsible for, or liable for, unauthorized changes to or uses of these plans. All changes to the plans must be in writing and must be approved by the preparer of the plans.

Construction contractor agrees that in accordance with generally accepted construction practices, construction contractor will be required to assume sole and complete responsibility for job site conditions during the course of construction of the project, including safety of all persons and property; that this requirement shall be made to apply continuously and not be limited to normal working hours and construction contractor further agrees to defend, indemnify and hold design professional harmless from any and all liability, real or alleged in connection with the performance of work on this project, excepting liability arising from sole negligence of design professional.

## STANFORD UNIVERSITY

Project Name: Varsity Tennis Center  
Project Address: 275 Sam McDonald Mall,  
Stanford CA. 94305  
Quad/ Bldg. Number: 09-345



ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	01.27.2023	ASA SUBMITTAL
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
17007

## COVER SHEET

SCALE

NTS

SHEET NUMBER

## C-1.0

APPROVED FOR ISSUANCE. REFER TO ENCROACHMENT AND/OR CONSTRUCTION PERMIT AND PLAN COVER SHEET FOR SPECIAL CONDITIONS



**COUNTY OF SANTA CLARA  
GENERAL CONSTRUCTION SPECIFICATIONS**

GENERAL CONDITIONS

1. ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY CORNERSTONE EARTH GROUP. THIS REPORT IS SUPPLEMENTED BY:

- 1) THESE PLANS AND SPECIFICATIONS,
  - 2) THE COUNTY OF SANTA CLARA STANDARD DETAILS.
  - 3) THE COUNTY OF SANTA CLARA STANDARD SPECS,
  - 4) STATE OF CALIFORNIA STANDARD DETAILS,
  - 5) STATE OF CALIFORNIA STANDARD SPECIFICATIONS.
- IN THE EVENT OF CONFLICT THE FORMER SHALL TAKE PRECEDENCE OVER THE LATTER. THE PERFORMANCE AND COMPLETION OF ALL WORK MUST BE TO THE SATISFACTION OF THE COUNTY.

2. DEVELOPER IS RESPONSIBLE FOR INSTALLATION OF THE IMPROVEMENTS SHOWN ON THESE PLANS AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THEIR CONTINUED MAINTENANCE.

3. DEVELOPER SHALL BE RESPONSIBLE FOR CORRECTION OF ANY ERRORS OR OMISSIONS IN THESE PLANS. THE COUNTY SHALL BE AUTHORIZED TO REQUIRE DISCONTINUANCE OF ANY WORK AND SUCH CORRECTION AND MODIFICATION OF PLANS AS MAY BE NECESSARY TO COMPLY WITH COUNTY STANDARDS OR CONDITIONS OF DEVELOPMENT APPROVAL.

4. DEVELOPER SHALL OBTAIN ENCROACHMENT PERMITS FROM THE SANTA CLARA VALLEY WATER DISTRICT AND CALIFORNIA DEPARTMENT OF TRANSPORTATION WHERE NEEDED. COPIES OF THESE PERMITS SHALL BE KEPT AT THE JOB SITE FOR REVIEW BY THE COUNTY'S INSPECTOR.

5. DEVELOPER SHALL REMOVE OR TRIM ALL TREES TO PROVIDE AN UNOBSTRUCTED FIFTEEN (15) FOOT VERTICAL CLEARANCE FOR ROADWAY AREA.

6. THIS PLAN AUTHORIZES THE REMOVAL OF ONLY THOSE TREES WITH TRUNK DIAMETERS GREATER THAN 12 INCHES MEASURED 4.5 FEET ABOVE THE GROUND THAT ARE SHOWN TO BE REMOVED UNLESS AN AMENDED PLAN IS APPROVED OR A SEPARATE TREE REMOVAL PERMIT IS OBTAINED FROM THE PLANNING OFFICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT REMOVAL OF ADDITIONAL TREES HAS BEEN PERMITTED.

7. DEVELOPER SHALL PROVIDE ADEQUATE DUST CONTROL AS REQUIRED BY THE COUNTY INSPECTOR.

8. ALL PERSONS MUST COMPLY WITH SECTION 4442 OF THE PUBLIC RESOURCES CODE AND SECTION 13005 OF THE HEALTH AND SAFETY CODE RELATING TO THE USE OF SPARK ARRESTERS.

9. UPON DISCOVERING OR UNEARTHING ANY BURIAL SITE AS EVIDENCED BY HUMAN SKELETAL REMAINS OR ARTIFACTS, THE PERSON MAKING SUCH DISCOVERY SHALL IMMEDIATELY NOTIFY THE COUNTY CORONER AT (408) 454-2520 AND LAND DEVELOPMENT ENGINEERING OFFICE AT (408) 299-5730. NO FURTHER DISTURBANCE OF THE SITE MAY BE MADE EXCEPT AS AUTHORIZED BY THE LAND DEVELOPMENT OFFICE IN ACCORD WITH PROVISIONS OF THIS ORDINANCE (COUNTY ORDINANCE CODE SECTION 66-18).

10. THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE SEPTIC LINE CONSTRUCTION.

11. ANY DEVIATION FROM THESE APPROVED PLANS SHALL BE RE-APPROVED IN WRITING BY THE COUNTY ENGINEER PRIOR TO CONSTRUCTION.

12. "THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT (BAAQMD) HAS IDENTIFIED A SET OF FEASIBLE PM10 CONTROL MEASURES FOR ALL CONSTRUCTION ACTIVITIES. THESE CONTROL MEASURES, AS PREVIOUSLY REQUIRED IN THE EIR, SHALL BE ADHERED TO DURING ALL CONSTRUCTION ACTIVITIES.

- A. WATER ALL ACTIVE CONSTRUCTION AREA AT LEAST TWICE DAILY.
- B. COVER ALL TRUCK HAULING SOIL, SAND AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
- C. PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES.
- D. SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT CONSTRUCTIONS SITES.
- E. SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL ARE CARRIED ONTO ADJACENT PUBLIC STREETS.
- F. HYDROSEED OR APPLY (NON-TOXIC) SOIL STABILIZERS TO INACTIVE CONSTRUCTION AREA (PREVIOUSLY GRADED AREAS INACTIVE FOR TEN DAYS OR MORE).
- G. ENCLOSE, COVER, WATER TWICE DAILY OR APPLY (NON-TOXIC) SOIL BINDERS TO EXPOSED STOCKPILES (DIRT, SAND).
- H. LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MPH.
- I. INSTALL FIBER ROLLS, SAND BAGS OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
- J. REPLANT VEGETATIONS DISTURBED AREAS AS QUICKLY AS POSSIBLE.
- K. INSTALL WHEEL WASHERS FOR ALL EXISTING TRUCKS, OR WASH OFF THE TIRES OF TRACKS OF ALL TRUCKS AND EQUIPMENT LEAVING THE SITE AND
- L. SUSPEND EXCAVATION AND GRADING ACTIVITY WHEN WINDS (INSTANTANEOUS GUSTS) EXCEED 25 MPH.

13. PLACE A CONSTRUCTION NOTE ON THE SITE PLAN THAT STATES THE FOLLOWING: "ALL CONSTRUCTION CONTRACTORS SHALL PROPERLY MAINTAIN THE EQUIPMENT TECHNOLOGY (E.G. ONS FIRED ENGINES, CATALYTIC CONVERTERS, PARTICULATE TRAPS, ETC.) MEASURES TO REDUCE DIESEL EMISSION WOULD BE CONSIDERED FEASIBLE WHEN THEY ARE CAPABLE OF BEING USED ON EQUIPMENT, WITHOUT INTERFERING SUBSTANTIALLY WITH EQUIPMENT PERFORMANCE.

14. IN THE EVENT THAT PREVIOUSLY UNIDENTIFIED HISTORIC AND PREHISTORIC ARCHAEOLOGICAL RESOURCES ARE DISCOVERED DURING BUILDING CONSTRUCTION, THE CONTRACTOR SHALL CEASE WORK IN THE IMMEDIATE AREA AND THE COUNTY PLANNING OFFICE AND CAMPUS ARCHAEOLOGIST SHALL BE CONTACTED. AN INDEPENDENT QUALIFIED ARCHAEOLOGIST RETAINED BY THE COUNTY AT THE EXPENSE OF STANFORD SHALL ASSESS THE SIGNIFICANCE OF THE FIND AND MAKE MITIGATION RECOMMENDATIONS.

15. IF ARCHEOLOGICAL RESOURCES ARE DISCOVERED AS DESCRIBED ABOVE, CONSTRUCTION MONITORING SHALL BE CONDUCTED AT ANY TIME GROUND-DISTURBING ACTIVITIES (GREATER THAN 12 IN DEPTH) ARE TAKING PLACE IN THE IMMEDIATE VICINITY OF THE IDENTIFIED RESOURCES. IF MONITORING DOES NOT PRODUCE EVIDENCE OF SIGNIFICANT CULTURAL RESOURCES WITHIN THE PROJECT AREA, FURTHER MITIGATION SHALL BE LIMITED TO CONSTRUCTION MONITORING, UNLESS ADDITIONAL TESTING OR OTHER SPECIFIC MITIGATION MEASURES ARE DETERMINED BY A QUALIFIED ARCHAEOLOGIST TO BE NECESSARY TO ENSURE AVOIDANCE OR DAMAGE TO SIGNIFICANT ARCHEOLOGICAL RESOURCES. A TECHNICAL REPORT OF FINDINGS DESCRIBING THE RESULTS OF ALL MONITORING SHALL BE PREPARED IN ACCORDANCE WITH PROFESSIONAL STANDARDS. THE ARCHAEOLOGICAL MONITORING PROGRAM SHALL BE IMPLEMENTED BY AN INDIVIDUAL MEETING THE SECRETARY OF INTERIOR PROFESSIONAL QUALIFICATIONS STANDARDS IN ARCHAEOLOGY (36 CFR 61); INDIVIDUAL FIELD MONITORS SHALL BE QUALIFIED IN THE RECOGNITION OF CULTURAL RESOURCES AND POSSESS SUFFICIENT ACADEMIC AND FIELD TRAINING AS REQUIRED TO CONDUCT THE WORK EFFECTIVELY AND WITHOUT UNDUE DELAY.

16. IN THE EVENT THAT HUMAN SKELETAL REMAINS ARE ENCOUNTERED, THE APPLICANT IS REQUIRED BY COUNTY ORDINANCE NO. 86-18 TO IMMEDIATELY NOTIFY THE COUNTY CORONER. UPON DETERMINATION BY THE COUNTY CORONER THAT THE REMAINS ARE NATIVE AMERICAN, THE CORONER SHALL CONTACT THE CALIFORNIA NATIVE AMERICAN HERITAGE COMMISSION, PURSUANT TO SUBDIVISION (C) OF SECTION 7050.5 OF THE HEALTH AND SAFETY CODE AND THE COUNTY COORDINATOR OF INDIAN AFFAIRS. NO FURTHER DISTURBANCE OF THE SITE MAY BE MADE EXCEPT AS AUTHORIZED BY THE COUNTY COORDINATOR OF INDIAN AFFAIRS IN ACCORDANCE WITH THE PROVISIONS OF STATE LAW AND THIS CHAPTER. IF ARTIFACTS ARE FOUND ON THE SITE A QUALIFIED ARCHAEOLOGIST SHALL BE CONTACTED ALONG WITH THE COUNTY PLANNING OFFICE. NO FURTHER DISTURBANCE OF THE ARTIFACTS MAY BE MADE EXCEPT AS AUTHORIZED BY THE COUNTY PLANNING OFFICE.

17. IN THE EVENT THAT FOSSILIZED SHELL OR BONE IS UNCOVERED DURING ANY EARTH-DISTURBING OPERATION, CONTRACTORS SHALL STOP WORK IN THE IMMEDIATE AREA OF THE FIND AND NOTIFY THE CAMPUS ARCHAEOLOGIST AND THE COUNTY BUILDING INSPECTOR ASSIGNED TO THE PROJECT. THE CAMPUS ARCHAEOLOGIST SHALL VISIT THE SITE AND MAKE RECOMMENDATIONS FOR TREATMENT OF THE FIND (INCLUDING BUT NOT LIMITED TO CONSULTATION WITH A PALEONTOLOGIST AND EXCAVATION, IF WARRANTED), WHICH WOULD BE SENT TO THE COUNTY BUILDING INSPECTION OFFICE AND THE COUNTY PLANNING OFFICE. IF A FOSSIL FIND IS CONFIRMED, IT WILL BE RECORDED WITH THE UNITED STATES GEOLOGICAL SURVEY AND CURATED IN AN APPROPRIATE REPOSITORY.

18. ONE SIGN SHALL BE POSTED ALONG A STREET FRONTAGE OR IN FRONT OF THE PROJECT SITE, NO SMALLER THAN 1,296 SQUARE INCHES IN SIZE, CONTAINING THE NAME, TELEPHONE NUMBER, AND EMAIL ADDRESS OF THE APPROPRIATE STANFORD PERSON THE PUBLIC MAY CONTACT TO REGISTER A COMPLAINT ABOUT CONSTRUCTION NOISE. STANFORD SHALL KEEP A WRITTEN RECORD OF ALL SUCH COMPLAINTS AND SHALL PROVIDE COPIES OF THESE RECORDS TO THE COUNTY PLANNING OFFICE.

19. CONSTRUCTION MATERIALS AND FILL DIRT DELIVERED FROM OFF CAMPUS SHALL NOT BE DELIVERED BETWEEN THE HOURS OF 7:00 AM TO 9:00 AM AND 4:00 PM TO 6:00 PM ON WEEKDAYS.

20. TRUCKS EXPORTING/IMPORTING FILL DIRT AND BUILDING MATERIALS FOR THE PROJECT SHALL USE APPROVED TRUCK ROUTES SHOWN IN THE 2000 GUP, AS DESIGNATED BY THE CITIES OF PALO ALTO AND MENLO PARK.

CONSTRUCTION STAKING

1. THE DEVELOPER'S ENGINEER IS RESPONSIBLE FOR THE INITIAL PLACEMENT AND REPLACEMENT OF CONSTRUCTION GRADE STAKES. THE STAKES ARE TO BE ADEQUATELY IDENTIFIED, LOCATED, STABILIZED, ETC. FOR THE CONVENIENCE OF CONTRACTORS. LATERAL OFFSET OF STAKES SET FOR CURBS AND GUTTERS SHALL NOT EXCEED 2 1/2 FEET FROM BACK OF CURB.

2. ANY PROPERTY LINE STAKES OR ROAD MONUMENTS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY DEVELOPER'S ENGINEER AND LICENSED LAND SURVEYOR.

3. PROPERTY LINE STAKING MUST BE PERFORMED BY THE PROJECT ENGINEER OR LAND SURVEYOR TO ESTABLISH OR RE-ESTABLISH THE PROJECT BOUNDARY AND SHALL BE INSPECTED BY THE COUNTY INSPECTOR PRIOR TO THE BEGINNING OF THE WORK.

4. PROPER CONSTRUCTION STAKES SHALL BE SET IN THE FIELD BY THE PROJECT ENGINEER OR LAND SURVEYOR AND VERIFIED BY THE COUNTY INSPECTOR PRIOR TO THE COMMENCEMENT OF GRADING.

CONSTRUCTION INSPECTION

1. CONTRACTOR SHALL NOTIFY PERMIT INSPECTION UNIT, SANTA CLARA COUNTY PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE.

2. THE COUNTY REQUIRES A MINIMUM OF 24 HOURS ADVANCE NOTICE FOR GENERAL INSPECTION. 48 HOURS FOR ASPHALT CONCRETE INSPECTION.

3. INSPECTION BY SANTA CLARA COUNTY SHALL BE LIMITED TO INSPECTION OF MATERIALS AND PROCESSES OF CONSTRUCTION TO OBSERVE THEIR COMPLIANCE WITH PLANS & SPECIFICATIONS BUT DOES NOT INCLUDE RESPONSIBILITY FOR THE SUPERINTENDENT OF CONSTRUCTION, SITE CONDITIONS, EQUIPMENT OR PERSONNEL. CONTRACTOR SHALL NOTIFY THE COUNTY LAND DEVELOPMENT INSPECTOR AT PHONE (408) 299-6868 AT LEAST 24 HOURS PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE.

4. DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE MUST SUBMIT WRITTEN REQUEST FOR FINAL INSPECTION AND ACCEPTANCE. SAID REQUEST SHALL BE DIRECTED TO THE INSPECTION OFFICE NOTED ON THE PERMIT FORM.

5. THE CONTRACTOR SHALL PROVIDE TO THE COUNTY CONSTRUCTION INSPECTOR WITH PAD ELEVATION AND LOCATION CERTIFICATES, PREPARED BY THE PROJECT ENGINEER OR LAND SURVEYOR, PRIOR COMMENCEMENT OF THE BUILDING FOUNDATION.

SITE PREPARATION (CLEARING AND GRUBBING)

1. EXISTING TREES AUTHORIZED FOR REMOVAL, ROOTS, AND FOREIGN MATERIAL IN AREAS TO BE IMPROVED WILL BE REMOVED TO AN AUTHORIZED DISPOSAL SITE AS FOLLOWS:

- A) TO A MINIMUM DEPTH OF TWO FEET BELOW THE FINISHED GRADE OF PROPOSED ROADWAYS (EITHER PRIVATE OR TO BE DEDICATED TO PUBLIC USE)
- B) FROM AREAS AFFECTED BY THE PROPOSED GRADING EXCEPT WHERE NOTED ON THE PLANS.

2. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO MOVE OR RELOCATE UTILITY POLES AND OTHER OBSTRUCTIONS IN THE WAY OF CONSTRUCTION.

UTILITY LOCATION, TRENCHING & BACKFILL

1. CONTRACTOR SHALL NOTIFY USA (UNDERGROUND SERVICE ALERT) AT 1-800-277-2600 A MINIMUM OF 24 HOURS BEFORE BEGINNING UNDERGROUND WORK FOR VERIFICATION OF THE LOCATION OF UNDERGROUND UTILITIES.

2. ACCURATE VERIFICATION AS TO SIZE, LOCATION, AND DEPTH OF EXISTING UNDERGROUND CONDUITS OR FACILITIES SHALL BE THE INDIVIDUAL CONTRACTORS RESPONSIBILITY. PLAN LOCATIONS ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY.

3. ALL UNDERGROUND INSTALLATIONS SHALL BE IN PLACE AND THE TRENCH BACKFILLED AND COMPACTED BEFORE PLACING AGGREGATE BASE MATERIAL OR SURFACE STRUCTURES. SURFACING MAY BE DONE IF THE UTILITY COMPANY CONCERNED INDICATES BY LETTER THAT IT WILL BORE, UNLESS SPECIFICALLY AUTHORIZED BY THE COUNTY. GAS AND WATER MAINS SHALL BE INSTALLED OUTSIDE THE PAVED AREAS.

4. TRENCH BACKFILL IN EXISTING PAVEMENT AREAS SHALL BE SAND MATERIAL IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE SPECIFICATIONS. THE STRUCTURAL SECTION FOR TRENCH REPLACEMENT SHALL CONSIST OF NOT LESS THAN 12 INCHES OF APPROVED AGGREGATE BASE MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 95% AND 4 INCHES OF HOT ASPHALT CONCRETE PLACED IN TWO LIFTS. TRENCH RESTORATION FOR HIGHER TYPE PAVEMENTS SHALL BE MADE IN KIND OR AS DIRECTED BY THE COUNTY.

5. TRENCH BACKFILL IN NEW CONSTRUCTION AREAS SHALL BE SAND MATERIAL COMPACTED TO A RELATIVE COMPACTION OF AT LEAST 90% THE REQUIREMENT FOR SELECT MATERIAL MAY BE WAIVED BY COUNTY IF THE NATIVE SOIL IS SUITABLE FOR USE AS TRENCH BACKFILL BUT THE COMPACTION REQUIREMENTS WILL NOT BE THEREBY WAIVED.

6. BACKFILL AND TRENCH RESTORATION REQUIREMENTS SHALL APPLY AS MINIMUM STANDARDS TO ALL UNDERGROUND FACILITIES INSTALLED BY OTHER FIRMS OR PUBLIC AGENCIES.

GRADING

1. EXCAVATED MATERIAL SHALL BE PLACED IN THE FILL AREAS DESIGNATED OR SHALL BE HAULLED AWAY FROM THE SITE. WHERE FILL MATERIAL IS TO BE PLACED ON NATURAL GROUND, IS SHALL BE STRIPPED OF ALL VEGETATION. TO ACHIEVE A PROPER BOND WITH THE FILL MATERIAL, THE SURFACE OF THE GROUND SHALL BE SCARIFIED TO DEPTH OF 6" BEFORE FILL IS PLACED. WHERE NATURAL GROUND IS STEEPER THAN 5:1, IT SHALL BE BENCHED AND THE FILL KEYPED IN TO ACHIEVE STABILITY. WHERE NEW FILL IS TO BE PLACED ON EXISTING FILL THE EXISTING FILL SHALL BE REMOVED UNTIL MATERIAL COMPACTED TO 90% RELATIVE COMPACTION IS EXPOSED. THEN THE NEW FILL MATERIAL SHALL BE PLACED AS PER THESE CONSTRUCTION NOTES. FILL MATERIAL SHALL BE PLACED IN UNIFORM LIFTS NOT EXCEEDING 6" IN UNCOMPACTED THICKNESS. BEFORE COMPACTION BEGINS, THE FILL SHALL BE BROUGHT TO A WATER CONTENT THAT WILL PERMIT PROPER COMPACTION BY EITHER 1) AERATING THE FILL IF IT IS TOO WET OR 2) MOISTENING THE FILL WITH WATER IF IT IS TOO DRY. EACH LIFT SHALL BE THOROUGHLY MIXED BEFORE COMPACTION TO ENSURE A UNIFORM DISTRIBUTION OF MOISTURE.

2. SURPLUS EARTH FILL MATERIAL SHALL BE PLACED IN A SINGLE (8" MAX) THICK LAYER COMPACTED TO WITHSTAND WEATHERING IN THE AREA(S) DELINEATED ON THE PLAN.

3. NO ORGANIC MATERIAL SHALL BE PLACED IN ANY FILL. NO TREES SHALL BE REMOVED OUTSIDE OF CUT, FILL OR ROADWAY AREAS.

4. THE UPPER 6" OF SUBGRADE BELOW DRIVEWAY ACCESS ROAD OR PARKING AREA SHALL BE COMPACTED TO 95% MAXIMUM DENSITY.

5. MAXIMUM CUT SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL. MAXIMUM FILL SLOPE SHALL 2 HORIZONTAL TO 1 VERTICAL.

ESTIMATED VOLUME OF SITE GRADING	1,575 CUBIC YARDS CUT
NET	4,574 CUBIC YARDS FILL
	2,999 CUBIC YARDS IMPORT
MAXIMUM DEPTH OF CUT	1.2 FEET
FILL	11.5 FEET

EXCESS MATERIAL SHALL BE OFF HAULED TO A COUNTY APPROVED DUMP SITE.

6. NOTIFY SOILS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING WORK TO COORDINATE THE WORK IN THE FIELD.

7. ALL MATERIALS FOR FILL SHOULD BE APPROVED BY THE SOILS ENGINEER BEFORE IT IS BROUGHT TO THE SITE.

8. THE UPPER 6" OF THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95%

9. ALL AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION.

10. THE GEOTECHNICAL PLAN REVIEW LETTER MUST BE REVIEWED AND APPROVED BY THE COUNTY GEOLOGIST PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER FOR BUILDING OCCUPANCY.

11. THE PROJECT GEOTECHNICAL ENGINEER SHALL PERFORM COMPACTION TESTING AND PRESENT THE RESULTS TO THE COUNTY ENGINEERING INSPECTOR PRIOR TO THE CONSTRUCTION OF ANY PAVED AREA.

AIR QUALITY, LANDSCAPING AND EROSION CONTROL

1. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY.

2. COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.

3. PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES.

4. SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.

5. SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.

6. ALL CONSTRUCTION VEHICLES, EQUIPMENT AND DELIVERY TRUCKS SHALL HAVE A MAXIMUM IDLING TIME OF 5 MINUTES (AS REQUIRED BY THE CALIFORNIA AIRBORNE TOXIC CONTROL MEASURE TITLE 13, SECTION 2485 OF CALIFORNIA CODE OF REGULATIONS (CCR)). ENGINES SHALL BE SHUT OFF IF CONSTRUCTION REQUIRES LONGER IDLING TIME UNLESS NECESSARY FOR PROPER OPERATION OF THE VEHICLE.

7. ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MILES PER HOUR.

8. ALL CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED AND PROPERLY TUNED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL EQUIPMENT SHALL BE CHECKED BY A CERTIFIED MECHANIC AND DETERMINED TO BE RUNNING IN PROPER CONDITION PRIOR TO OPERATION.

9. POST A SIGN THAT IS AT LEAST 32 SQUARE FEET MINIMUM 2 INCHES LETTER HEIGHT VISIBLE NEAR THE ENTRANCE OF CONSTRUCTION SITE THAT IDENTIFIES THE FOLLOWING REQUIREMENTS, OBTAIN ENCROACHMENT PERMIT FOR SIGN FROM ROADS DEPARTMENT OR OTHER APPLICABLE AGENCY IF REQUIRED.

- A. 15 MILES PER HOUR (MPH) SPEED LIMIT
- B. 5 MINUTES MAXIMUM IDLING TIME OF VEHICLES
- C. TELEPHONE NUMBER TO CONTACT THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT REGARDING DUST COMPLAINTS. NOTE PHONE NUMBER OF THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT AIR POLLUTION COMPLAIN HOTLINE OF 1-800-334-6367.

10. ALL FILL SLOPES SHALL BE COMPACTED AND LEFT IN A SMOOTH AND FIRM CONDITION CAPABLE OF WITHSTANDING WEATHERING.

11. ALL EXPOSED DISTURBED AREAS SHALL BE SEEDED WITH BROME SEED SPREAD AT THE RATE OF 5 LB. PER 1000 SQUARE FEET (OR APPROVED EQUAL). SEEDING AND WATERING SHALL BE MAINTAINED AS REQUIRED TO ENSURE GROWTH.

12. ALL DITCHES SHALL BE LINED PER COUNTY STANDARD SDB.

13. ALL STORM DRAINAGE STRUCTURES SHALL BE INSTALLED WITH EFFECTIVE ENTRANCE & OUTFALL EROSION CONTROLS E.G. SACKED CONCRETE RIP-RAP. ENERGY DISSIPATORS SHALL BE INSTALLED AT ALL DITCH OUTFALLS. WHERE OUTFALLS ARE NOT INTO AN EXISTING CREEK OR WATER COURSE, RUNOFF SHALL BE RELEASED TO SHEET FLOW.

14. THIS PLAN AUTHORIZES THE REMOVAL OF ONLY THOSE TREES WITH TRUNK DIAMETERS GREATER THAN 12 INCHES MEASURED 4.5 FEET ABOVE THE GROUND WHICH ARE SHOWN TO BE REMOVED. ANY OTHER SUCH TREES ARE NOT TO BE REMOVED UNLESS AMENDED PLAN IS APPROVED OR A SEPARATE TREE REMOVAL PERMIT IS OBTAINED FROM THE PLANNING OFFICE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE REMOVAL OF ADDITIONAL TREES HAS BEEN PERMITTED.

15. PRIOR TO GRADING COMPLETION AND RELEASE OF THE BOND, ALL GRADED AREAS SHALL BE RESEDED IN CONFORMANCE WITH THE COUNTY GRADING ORDINANCE TO MINIMIZE THE VISUAL IMPACTS OF THE GRADE SLOPES AND REDUCE THE POTENTIAL FOR EROSION OF THE SUBJECT SITE.

16. PERMANENT LANDSCAPING SHOWN ON THE ATTACHED LANDSCAPE PLAN MUST BE INSTALLED AND FIELD APPROVED BY THE COUNTY PLANNING OFFICE PRIOR TO FINAL APPROVAL BY THE COUNTY ENGINEER, AND FINAL OCCUPANCY RELEASE BY THE BUILDING INSPECTION OFFICE.

17. THE OWNER SHALL PREPARE AND PRESENT A WINTERIZATION REPORT TO THE COUNTY INSPECTOR FOR REVIEW PRIOR TO OCTOBER 15TH OF EVERY YEAR.

ACCESS ROADS AND DRIVEWAYS

1. DRIVEWAY LOCATIONS SHALL BE AS SHOWN ON THE IMPROVEMENT PLANS WITH CENTERLINE STATIONING. THE MINIMUM CONCRETE THICKNESS SHALL BE 6 INCHES THROUGHOUT (WITH A MAXIMUM APPROACH SLOPE OF 1/4 INCHES PER FOOT).

2. ALL DRIVEWAY OR COMMON ACCESS ROAD SECTIONS IN EXCESS OF 15% LONGITUDINAL SLOPE MUST BE PAVED WITH A MINIMUM 2-INCH ASPHALT LIFT OR FULL DEPTH CONCRETE LIFT PRIOR TO ANY COMBUSTIBLE FRAMING

3. ROADWAYS DESIGNATED AS NOT COUNTY MAINTAINED ROADS AS SHOWN ON THE PLAN WILL NOT BE ELIGIBLE FOR COUNTY MAINTENANCE UNTIL THE ROADWAYS ARE IMPROVED (AT NO COST TO THE COUNTY) TO THE PUBLIC MAINTENANCE ROAD STANDARDS APPROVED BY THE BOARD OF SUPERVISORS AND IN EFFECT AT SUCH TIME THAT THE ROADWAYS ARE CONSIDERED FOR ACCEPTANCE INTO THE COUNTY'S ROAD SYSTEM.

RETAINING WALLS

1. REINFORCED CONCRETE AND CONCRETE MASONRY UNIT RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING INSPECTOR AND ENGINEER OF RECORD PRIOR TO POURING THE FOUNDATION AND FORMING THE WALL.

2. SEGMENTAL BLOCK RETAINING WALLS SHALL HAVE FOUNDATION AND REINFORCEMENT INSPECTED BY THE COUNTY ENGINEERING INSPECTOR.

STREET LIGHTING

1. PACIFIC GAS & ELECTRIC ELECTROLIER SERVICE FEE SHALL BE PAID BY THE DEVELOPER AND/OR HIS AUTHORIZED REPRESENTATIVE.

STORM DRAINAGE

1. DEVELOPER IS RESPONSIBLE FOR ALL NECESSARY DRAINAGE FACILITIES WHETHER SHOWN ON THE PLANS OR NOT AND HE OR HIS SUCCESSOR PROPERTY OWNERS ARE RESPONSIBLE FOR THE ADEQUACY AND CONTINUED MAINTENANCE OF THESE FACILITIES IN A MANNER WHICH WILL PRECLUDE ANY HAZARD TO LIFE, HEALTH, OR DAMAGE TO ADJOINING PROPERTY.

2. DROP INLETS SHALL BE COUNTY STANDARD TYPE 5 UNLESS OTHERWISE NOTED ON THE PLANS. THE DEVELOPER'S ENGINEER SHALL BE RESPONSIBLE FOR THE PROPER LOCATION OF DROP INLETS. WHERE STREET PROFILE GRADE EXCEEDS 6% DROP INLETS SHALL BE SET AT 500 ANGLE CURB LINE TO ACCEPT WATER OR AS SHOWN ON THE PLANS.

3. WHERE CULVERTS ARE INSTALLED THE DEVELOPER SHALL BE RESPONSIBLE FOR GRADING THE OUTLET DITCH TO DRAIN TO AN EXISTING SWALE OR TO AN OPEN AREA FOR SHEET FLOW.

4. UPON INSTALLATION OF DRIVEWAY CONNECTIONS, PROPERTY OWNERS SHALL PROVIDE FOR THE UNINTERRUPTED FLOW OF WATER IN ROADSIDE DITCHES.

5. THE COUNTY ENGINEERING INSPECTOR SHALL INSPECT UNDERGROUND DRAINAGE IMPROVEMENTS PRIOR TO BACKFILL.

SANITARY SEWER

1. ALL MATERIALS AND METHODS OF CONSTRUCTION OF SANITARY SEWERS SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTION INVOLVED. INSPECTION OF SANITARY SEWER WORK SHALL BE DONE BY SAID JURISDICTION.

PORTLAND CEMENT CONCRETE

1. CONCRETE USED FOR STRUCTURAL PURPOSES SHALL BE CLASS "A" (6 SACK PER CUBIC YARD) AS SPECIFIED IN THE STATE STANDARD SPECIFICATIONS. CONCRETE PLACED MUST DEVELOP A MINIMUM STRENGTH FACTOR OF 2800 PSI IN A SEVEN-DAY PERIOD. THE CONCRETE MIX DESIGN SHALL BE UNDER THE CONTINUAL CONTROL OF THE COUNTY INSPECTOR.

AS-BUILT PLANS STATEMENT

THIS IS A TRUE COPY OF THE AS-BUILT PLANS.  
THERE ( ) WERE ( ) WERE NOT) MINOR FIELD CHANGES - MARKED WITH THE SYMBOL (").  
THERE ( ) WERE ( ) WERE NOT) PLAN REVISIONS INDICATING SIGNIFICANT CHANGES REVIEWED BY THE COUNTY ENGINEER AND MARKED WITH THE SYMBOL .  
DATE \_\_\_\_\_ SIGNATURE \_\_\_\_\_

NOTE: THIS STATEMENT IS TO BE SIGNED BY THE PERSON AUTHORIZED BY THE COUNTY ENGINEER TO PERFORM THE INSPECTION WORK. A REPRODUCIBLE COPY OF THE AS-BUILT PLANS MUST BE FURNISHED TO THE COUNTY ENGINEER AFTER CONSTRUCTION.

1. A CONSTRUCTION OBSERVATION LETTER FROM THE RESPONSIBLE GEOTECHNICAL ENGINEER DETAILING CONSTRUCTION OBSERVATIONS AND CERTIFYING THAT THE WORK WAS DONE IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORTS SHALL BE SUBMITTED PRIOR TO THE GRADING COMPLETION AND RELEASE OF THE BOND.

CONSTRUCTION / ENCROACHMENT / GRADING PERMIT

PERMIT(S) NO: \_\_\_\_\_

FILE(S) NO: \_\_\_\_\_

ISSUED BY: \_\_\_\_\_ DATE: \_\_\_\_\_

LAND DEVELOPMENT ENGINEERING & SURVEYING DEVELOPMENT SERVICES OFFICE COUNTY OF SANTA CLARA

GENERAL NOTES

1. THE WATER AND SANITARY UTILITIES SHOWN ON THESE PLANS ARE NOT PART OF THIS GRADING PERMIT AND ARE SHOWN FOR REFERENCE ONLY.

2. THE OWNER AND PRIME CONTRACTOR ARE RESPONSIBLE FOR MAINTAINING PROJECT SITE ACCESS AND NEIGHBORHOOD ACCESS FOR EMERGENCY VEHICLES AND LOCAL RESIDENTS.

TREE PROTECTION NOTES

1. THE GENERAL CONTRACTOR SHALL TAKE THE FOLLOWING STEPS TO PRESERVE AND PROTECT ALL EXISTING TREES SHOWN TO REMAIN:

- A. PRIOR TO COMMENCEMENT OF DEMOLITION, GRADING AND CONSTRUCTION, TEMPORARY FENCING SHALL BE INSTALLED AT THE DRIP LINE OF EACH TREE TO BE PRESERVED. REFER TO DETAIL, FENCED AREAS SHALL NOT BE VIOLATED DURING CONSTRUCTION.
- B. ALL EXISTING ON SITE TREES INDICATED TO REMAIN SHALL BE TRIMMED BY A LICENSED ARBORIST FOUR WEEKS PRIOR TO COMMENCEMENT OF DEMOLITION OF GRADING OPERATIONS. ALL BROKEN OR BRUISED BRANCHES AND DEAD WOOD SHALL BE REMOVED. ALL CUTS OVER 1/4" DIAMETER SHALL BE PAINTED WITH "TREE SEAL" OR APPROVED EQUAL. IN NO CASE SHALL ANY TREE BE TOPPED.
- C. ALL EXISTING ON SITE TREES INDICATED TO REMAINS SHALL BE FERTILIZED BY ROOT INJECTION BY A LICENSED ARBORIST FOUR WEEKS PRIOR TO COMMENCEMENT OF GRADING OR DEMOLITION OPERATIONS.

2. ALL EXISTING ON-SITE TREES INDICATED TO REMAIN SHALL BE PRESERVED AND PROTECTED DURING CONSTRUCTION. NO GRADING IS PERMITTED WITHIN THE DRIP-LINE OF ANY TREE INDICATED TO REMAIN. NO DEBRIS OR MATERIALS SHALL BE STOCKPILED AROUND THE BASE OF THE TREES. NO TRADESMAN SHALL DUMP DEBRIS OR FLUIDS WITHIN THE DRIP-LINE OF ANY TREES (PLASTER, PAINT, THINNER, ETC.). ALL TREES SHALL BE FENCED BY THE GENERAL CONTRACTOR TO AVOID COMPACTION OF THE TREE'S ROOT SYSTEM AND DAMAGE TO THE BARK. THE FENCE SHALL BE SIX FEET HIGH, AND EXTEND OUT TO THE DRIP-LINE OF THE TREE.

3. ALL EXISTING ON-SITE TREES INDICATED TO REMAIN SHALL BE WATERED BY THE GENERAL CONTRACTOR CONTINUOUSLY DURING THE COURSE OF CONSTRUCTION. IF POTABLE WATER IS NOT AVAILABLE ON THE SITE, A WATERING TRUCK SHALL BE EMPLOYED TO ACCOMPLISH THE WATERING.

4. DO NOT DISTURB SURFACE SOIL WITHIN TREE DRIP-LINE EXCEPT AS MANDATED BY CONSTRUCTION PLANS.

5. DURING PERIODS OF EXTENDED DROUGHT, SPRAY WOAK TREES TO REMOVE ACCUMULATED CONSTRUCTION.

6. GRADE IN LINES RADIAL TO THE EXISTING TREE RATHER THAN TANGENTIAL IF ROOTS ARE ENCOUNTERED WHILE GRADING. CUT THEM CLEANLY WITH A SAW. DO NOT RIP THEM WITH GRADING EQUIPMENT.

7. DO NOT ATTEMPT DEMOLITION OF TREES WITH GRADING EQUIPMENT WHEN TREES THAT ARE TO BE PRESERVED ARE IN THE VICINITY.

1. THE LOCATION OF ALL SERVICE RUNS SUCH AS WATER SUPPLY, SEWER, ELECTRICITY, TELEPHONES, CABLE, GAS, STORM DRAIN LINES, ETC. SHALL BE ASCERTAINED BEFORE TREE REMOVAL WORK IS STARTED. WHERE SUCH LINES WILL BE AFFECTED BY TREE REMOVAL, OR WHERE TREE REMOVAL MACHINERY WILL BE WORKING NEARBY, LINES SHOULD BE CAREFULLY SEALED OFF, PROTECTED OR DIVERTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE NECESSARY PRECAUTIONARY ACTIONS.

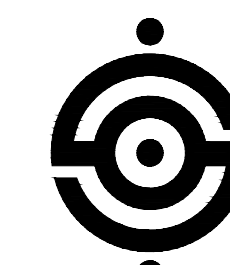
2. REMOVE ONLY THOSE TREES INDICATED ON THIS PLAN TO BE REMOVED. TREES INDICATED TO BE REMOVED SHALL HAVE ALL ROOTS AND STUMP REMOVED TO A DEPTH OF 24" BELOW GRADE.

**STANFORD UNIVERSITY**

Project Name: Varsity Tennis Center  
Project Address: 275 Sam McDonald Mall,  
Stanford CA, 94305  
Quad/I Bldg. Number: 09-345



**ARCHITECTS**



**SANDIS**

ISSUES AND REVISIONS

NO.	DATE	DESCRIPTION
	01.27.2023	ASA SUBMITTAL
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
17007

SHEET TITLE

**CONSTRUCTION NOTES**

SCALE

NTS

SHEET NUMBER

**C-1.1**



## FIRE SAFETY NOTES:

PLAN SUBMITTAL REQUIREMENTS:  
FIRE ALARMS AND DETECTION SYSTEMS  
ATTACHMENT A  
CODE, STANDARDS & GUIDES  
LIST OF 2022 CALIFORNIA CODE OF REGULATIONS

APPLICABLE CODES AS OF JANUARY 1, 2023:

2022 CALIFORNIA BUILDING STANDARDS ADMINISTRATIVE CODE (PART 1, TITLE 24, CCR)

2022 CALIFORNIA BUILDING CODE, VOLUMES 1, 2 AND 3 (PART 2, TITLE 24, CCR)  
(BASED ON THE 2012 INTERNATIONAL BUILDING CODE)

2022 CALIFORNIA ELECTRICAL CODE (PART 3, TITLE 24, CCR)  
(BASED ON 2011 NATIONAL ELECTRICAL CODE)

2022 CALIFORNIA MECHANICAL CODE (PART 4, TITLE 24, CCR)  
(BASED ON THE 2012 UNIFORM MECHANICAL CODE)

2022 CALIFORNIA PLUMBING CODE (PART 5, TITLE 24, CCR)  
(BASED ON THE 2012 UNIFORM PLUMBING CODE)

2022 CALIFORNIA ENERGY CODE (PART 6, TITLE 24, CCR)

2022 CALIFORNIA ELEVATOR SAFETY CONSTRUCTION CODE (PART 7, TITLE 24, CCR)

2022 CALIFORNIA FIRE CODE (PART 9, TITLE 24, CCR)  
(BASED ON THE 2012 INTERNATIONAL FIRE CODE)

2022 CALIFORNIA REFERENCED STANDARDS CODE (PART 12, TITLE 24, CCR)  
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS

PARTIAL LIST OF APPLICABLE STANDARDS:

NFPA 13 – SPRINKLER SYSTEMS – 2019 EDITION

NFPA 14 – STANDPIPES AND HOSE SYSTEMS – 2019 EDITION

NFPA 17A – WET CHEMICAL EXTINGUISHING SYSTEMS – 2019 EDITION

NFPA 24 – PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES – 2019 EDITION

NFPA 72 – NATIONAL FIRE ALARM AND SIGNALING CODE – 2019 EDITION

NFPA 253 – CRITICAL RADIANT FLUX OF FLOOR COVERING SYSTEMS USING A RADIANT HEAT ENERGY SOURCE – 2019 EDITION.

UNDERGROUND FIRE SERVICE TO FIRE HYDRANTS REQUIREMENTS:

NFPA 24 CHAPTER 10.1.3: WHERE EXTERNALLY COATED AND WRAPPED AND INTERNALLY GALVANIZED, STEEL PIPE SHALL BE PERMITTED TO BE USED BETWEEN THE CHECK VALVE AND THE OUTSIDE BASE COUPLING FOR THE FIRE DEPARTMENT CONNECTION.

NFPA 24 CHAPTER 10.1.6.1: UNLESS THE REQUIREMENTS OF 10.1.6.2 ARE MET, ALL FERROUS METAL PIPE SHALL BE LINED IN ACCORDANCE WITH THE APPLICABLE STANDARDS IN TABLE 10.1.1.

NFPA 24 CHAPTER 10.1.6.2: STEEL PIPE UTILIZED IN FIRE DEPARTMENT CONNECTIONS AND PROTECTED IN ACCORDANCE WITH THE REQUIREMENTS OF 10.1.3 SHALL NOT BE ADDITIONALLY REQUIRED TO BE LINED.

NFPA 24 CHAPTER 10.3.5.2: ALL BOLTED JOINT ACCESSORIES SHALL BE CLEANED AND THOROUGHLY COATED WITH ASPHALT OR OTHER CORROSION RETARDING MATERIAL AFTER INSTALLATION.

NFPA 24 CHAPTER 10.8.3.5: AFTER INSTALLATION, RODS, NUTS, BOLTS, WASHERS, CLAMPS, AND OTHER RESTRAINING DEVICES, EXCEPT THRUST BLOCKS, SHALL BE CLEANED AND THOROUGHLY COATED WITH BITUMINOUS OR OTHER ACCEPTABLE CORROSION-RETARDING MATERIAL.

NFPA 24 CHAPTER 10.8.2.2: THRUST BLOCKS SHALL BE OF A CONCRETE MIX NOT LEANER THAN ONE PART CEMENT, TWO AND ONE HALF PARTS SAND, AND FIVE PARTS STONE.

NFPA 24 CHAPTER 10.8.2.3: THRUST BLOCKS SHALL BE PLACED BETWEEN UNDISTURBED EARTH AND THE FITTING TO BE RESTRAINED, AND SHALL BE OF SUCH BEARING AS TO ENSURE ADEQUATE RESISTANCE TO THE THRUST TO BE ENCOUNTERED.

NFPA 24 CHAPTER 10.8.2.4: IN GENERAL THRUST BLOCKS SHALL BE SO PLACED THAT THE JOINTS WILL BE ACCESSIBLE FOR INSPECTION AND REPAIR.

NFPA 24 CHAPTER 10.10.2.1.1: UNDERGROUND PIPING, FROM THE WATER SUPPLY TO THE SYSTEM RISER, AND LEAD-IN CONNECTIONS TO THE SYSTEM RISER SHALL BE COMPLETELY FLUSHED BEFORE THE CONNECTION IS MADE TO DOWNSTREAM FIRE PROTECTION SYSTEM PIPING.

NFPA 24 CHAPTER 10.10.2.1.3: THE MINIMUM RATE OF FLOW SHALL BE NO LESS THAN ONE OF THE FOLLOWING:

- (1) HYDRAULICALLY CALCULATED WATER DEMAND FLOW RATE OF THE SYSTEM, INCLUDING ANY HOSE REQUIREMENTS.
- (2) FLOW NECESSARY TO PROVIDE A VELOCITY OF 10 FT/SEC (3.1 M/SEC) IN ACCORDANCE WITH TABLE 10.10.2.1.3.
- (3) MAXIMUM FLOW RATE AVAILABLE TO THE SYSTEM UNDER THE CONDITIONS.

NFPA 24 CHAPTER 10.10.2.2.1\*: ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI (13.8 BAR) OR 50 PSI (3.5 BAR) IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE AT + 5 PSI (0.35 BAR) FOR 2 HOURS.

NFPA 24 CHAPTER 10.10.1: THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR THE FOLLOWING:

- (1) NOTIFYING THE AUTHORITY HAVING JURISDICTION AND THE OWNER'S REPRESENTATIVE OF THE TIME AND DATE TESTING IS TO BE PERFORMED.
- (2) PERFORMING ALL REQUIRED ACCEPTANCE TESTS.
- (3) COMPLETING AND SIGNING THE CONTRACTOR'S MATERIAL AND TEST CERTIFICATE(S) SHOWN IN FIGURE 10.10.1.

CHAPTER 10.4.3: IN THOSE LOCATIONS WHERE FROST IS NOT A FACTOR, THE DEPTH OF COVER SHALL NOT BE LESS THAN 2 ½ FEET (0.8 M) TO PREVENT MECHANICAL DAMAGE.

NFPA 24 CHAPTER 10.4.4: PIPE UNDER DRIVEWAYS SHALL BE BURIED AT A MINIMUM DEPTH OF 3 FT (0.9M).

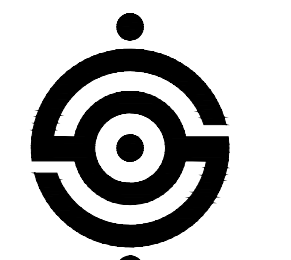
NFPA 24 CHAPTER 10.6.1: PIPE SHALL NOT BE RUN UNDER BUILDINGS.

STANFORD UNIVERSITY

Project Name: Varsity Tennis Center  
Project Address: 275 Sam McDonald Mall,  
Stanford CA. 94305  
Quad/ Bldg. Number: 09-345



ARCHITECTS



SANDIS

ISSUES AND REVISIONS	
NO.	DATE DESCRIPTION
	01.27.2023 ASA SUBMITTAL
	05.03.2023 ASA RESUBMITTAL #1

PROJECT NUMBER  
17007

SHEET TITLE

FIRE SAFETY NOTES

SCALE

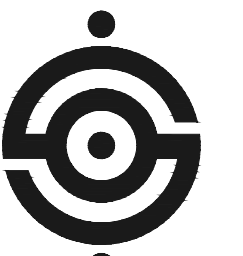
NTS

SHEET NUMBER

C-1.2



Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA. 94305  
 Quad/ Bldg. Number: 09-345



SANDIS

ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
01.27.2023	ASA	SUBMITTAL
05.03.2023	ASA	RESUBMITTAL #1

PROJECT NUMBER  
17007

SHEET TITLE

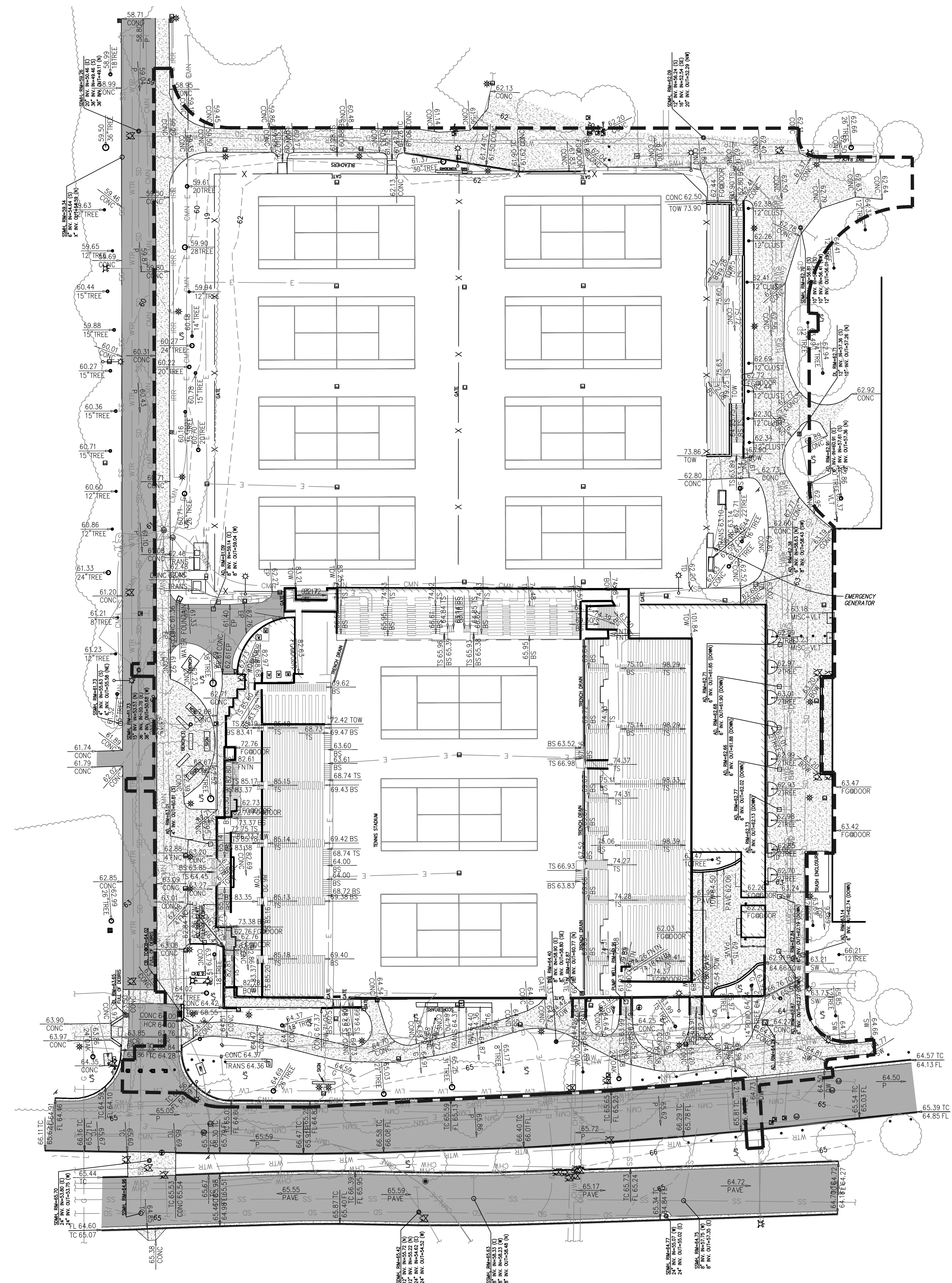
TOPOGRAPHIC SURVEY

SCALE

1"=30'

SHEET NUMBER

C-2.0



LEGEND

	BUILDING OVERHANG
	EDGE OF PAVEMENT
	CURB LINE
	CURB & GUTTER LINE
	WALL
	CONTOURS
	RAIL
	FLOW LINE
	FENCE LINE
	IRRIGATION WATER
	LAKE WATER
	HOT WATER
	CHILLED WATER
	STORM DRAIN LINE
	SANITARY SEWER LINE
	WATER LINE
	NATURAL GAS LINE
	UNDERGROUND ELECTRIC LINE
	COMMUNICATION LINE
	PAVEMENT
	CONCRETE
	FOUND SURVEY MONUMENT
	STORM DRAIN MANHOLE
	DRAIN INLET
	DRAIN INLET (ROUND)
	SANITARY SEWER MANHOLE
	SANITARY SEWER CLEANOUT
	WATER METER / BOX
	WATER VALVE
	BACKFLOW PREVENTOR
	FIRE HYDRANT
	FIRE DEPARTMENT CONNECTION
	POST INDICATOR VALVE
	IRRIGATION CONTROL / VALVE BOX
	GAS METER
	GAS VALVE
	COMMUNICATIONS MANHOLE
	VAULT / PULLBOX
	ELECTRIC MANHOLE
	ELECTRIC VAULT / PULLBOX
	HARDSCAPE ELECTRIC LIGHT
	ELECTROLIER ON TOP OF POLE
	ELECTROLIER WITH MAST ARM
	STREET LIGHT PULLBOX
	MISCELLANEOUS MANHOLE
	MISCELLANEOUS PULLBOX
	MISCELLANEOUS CLEANOUT
	SIGN
	BOLLARD
	SPOT ELEVATION

ABBREVIATIONS

AD	AREA DRAIN
BFP	BACKFLOW PREVENTOR
BLDC	BUILDING CORNER
BLDL	BUILDING LINE
BOLL	BOLLARD
BOW	BOTTOM OF WALL
BS	BOTTOM OF STAIR
CHKSHOT	SURVEY CHECK SHOT
CLF	CHAIN LINK FENCE
CMPT	SURVEY CONTROL POINT
COL	COLUMN
COM-MH	COMMUNICATIONS MANHOLE
COM-PB	COMMUNICATIONS PULLBOX
CONC	CONCRETE
DCK	DECK
DD	DECK DRAIN
DI	DRAIN INLET
DW	DOMESTIC WATER
EP	EDGE OF PAVEMENT
EPB	ELECTRICAL PULLBOX
FDC	FIRE DEPARTMENT CONNECTION
FG@DOOR	FINISHED GRADE AT DOOR
FH	FIRE HYDRANT
FL	FLOW LINE
FNTN	FOUNTAIN
G	GROUND
GM	GAS METER
GRATE	DRAIN INLET GRATE
GV	GAS VALVE
HCR	ACCESSIBLE RAMP
HE	HARDSCAPE ELECTRIC LIGHT
IF	IRON FENCE
LIP	LIP OF GUTTER
MISC-CO	MISCELLANEOUS CLEANOUT
MISC-MH	MISCELLANEOUS MANHOLE
MISC-PB	MISCELLANEOUS PULLBOX
MISC-VLT	MISCELLANEOUS VAULT
OH	BUILDING OVERHANG
P	PAVEMENT ELEVATION
PAVE	PAVER ELEVATION
PIV	POST INDICATOR VALVE
PNL	ELECTRIC PANEL
RAIL	HANDRAIL / GUARDRAIL
SDMH	STORM DRAIN MANHOLE
SSCO	SANITARY SEWER CLEANOUT
SSMH	SANITARY SEWER MANHOLE
STL	STREET LIGHT
STL-S	SINGLE-ARM STREET LIGHT
STPB	STREET LIGHT PULLBOX
SW	SIDEWALK
TC	TOP OF CURB
TC@CB	TOP OF CURB AT CATCH BASIN
TD	TRENCH DRAIN
TOP	TOP OF SLOPE
TOW	TOP OF WALL
TRANS	TRANSFORMER
TS	TOP OF STAIR
VLT	VAULT
WM	WATER METER
WPB	WATER VAULT
WV	WATER VALVE

SURVEY NOTES

- ALL DISTANCES AND DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF.
- DATES OF FIELD SURVEY: 08/09/21-08/13/21 AND 08/22/21.
- HORIZONTAL CONTROL WAS BASED COORDINATES AS SHOWN IN BOOK 747 OF MAPS AT PAGE 44-49, SANTA CLARA COUNTY RECORDS. THE COORDINATES REFERENCED ON THIS MAP ARE IN CALIFORNIA ZONE III, US SURVEY FEET. VERTICAL CONTROL WAS BASED ON STANFORD MONUMENT.

BENCHMARK

THE ELEVATION REFERENCE FOR THIS SURVEY IS A STANFORD MONUMENT 512, WHICH IS A SET 27 BRASS DISK STAMPED "STANFORD 12, LS 5237" IN MONUMENT WELL IN MIDDLE OF A TRAFFIC ISLAND ON CAMPUS DRIVE EAST IN BETWEEN GALVEZ STREET AND SAM McDONALD MALL. PER R.O.S. 747 M 40-49.

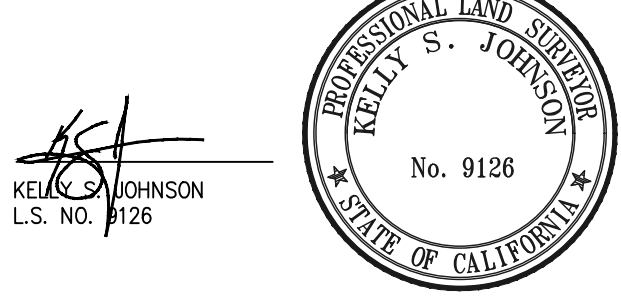
ELEVATION= 64.97 FEET (NGVD 29 DATUM)

UNDERGROUND UTILITY NOTE

THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. HOWEVER, THE ENGINEER CAN ASSUME NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF ITS DELINEATION OF SUCH UNDERGROUND UTILITIES WHICH MAY BE ENCOUNTERED, BUT WHICH ARE NOT SHOWN ON THIS SURVEY.

SURVEYOR'S STATEMENT

THIS MAP CORRECTLY REPRESENTS A SURVEY MADE BY ME OR UNDER MY DIRECTION IN CONFORMANCE WITH THE REQUIREMENTS OF THE PROFESSIONAL LAND SURVEYORS' ACT AT THE REQUEST OF STANFORD UNIVERSITY IN JULY, 2021.



XXXXXXXXXX  
DATE





ISSUES AND REVISIONS	
NO.	DESCRIPTION
01.27.2023	ASA SUBMITTAL
05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
17007

SHEET TITLE

DEMOLITION PLAN

SCALE

1"=30'

SHEET NUMBER

C-3.0

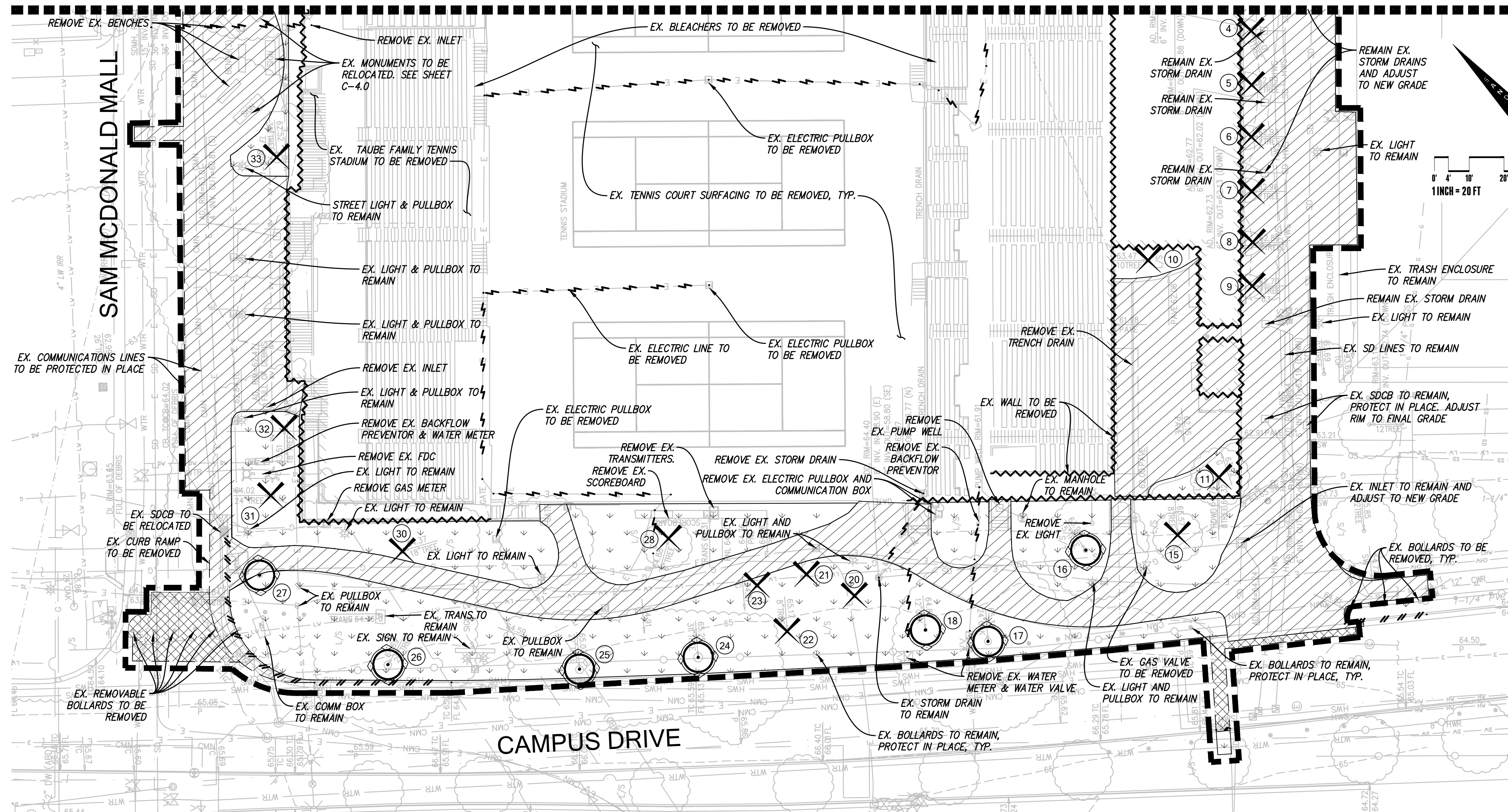
LEGEND

- # TREE NUMBER SEE TABLE THIS SHEET
- EXISTING TREE TO REMAINS. PROTECT IN PLACE. SEE NOTES ON THIS SHEET.
- EXISTING TREE TO BE REMOVED
- CLEAR & GRUB EXISTING LANDSCAPE
- REMOVE EXISTING CONCRETE INCLUDING ANY ASSOCIATED BASE ROCK AND REBAR. STABILIZE THE EXISTING SUBGRADE. DEMOLISHED MATERIAL MAY BE USED AS BASE ROCK IF APPROVED BY THE GEOTECHNICAL ENGINEER.
- REMOVE EXISTING AC PAVEMENT AND ANY ASSOCIATED BASE ROCK. STABILIZE THE EXISTING SUBGRADE. DEMOLISHED MATERIAL MAY BE USED AS BASE ROCK IF APPROVED BY GEOTECHNICAL ENGINEER.
- REMOVE EXISTING PAVERS
- DEMOLISH AND REMOVE EXISTING CURB AND GUTTER, INCLUDING ANY ASSOCIATED REBAR OR BASE ROCK. SAWCUT WITH NEAT, CLEAN EDGE.
- DEMOLISH AND REMOVE EX. UTILITY LINE. BACKFILL EMPTY TRENCH WITH APPROVED FILL PER GEOTECHNICAL REPORT.
- CAP EXISTING UTILITY WHERE SHOWN PER STANFORD SPECIFICATIONS AND REQUIREMENTS
- DEMOLISH AND REMOVE EX. STREET LIGHT, ELECTRICAL PULL BOX AND FOUNDATION. PULL ELECTRICAL CABLE BACK TO NEAREST SPLICE POINT AND SAFE OFF
- LIMIT OF WORK LINE
- SAWCUT LINE. CONTRACTOR SHALL SAWCUT WITH A NEAT, CLEAN EDGE. SAWCUT CONCRETE AT NEAREST JOINT TO SAWCUT LINE SHOWN ON PLAN.
- REMOVE EXISTING WALL OR FENCE INCLUDING ASSOCIATED FOOTINGS. RETURN FENCE TO OWNER.

SHEET NOTES

1. REMOVAL, PROTECTION, AND RELOCATION OF ELECTRICAL UTILITIES AND WATER LINES ARE SHOWN FOR REFERENCE ONLY AND ARE NOT COVERED BY THE GRADING PERMIT.
2. COORDINATE DEMOLITION WORK WITH STANFORD UNIVERSITY'S; ADHERE TO ALL THEIR REQUIREMENTS.
3. DEMOLITION AND CONSTRUCTION WORK MAY BE PERFORMED OVER THE TOP OF AND AROUND COMMUNICATION AND POWER SERVICES. CONTRACTOR SHALL WORK BY HAND IN ALL AREAS WHERE THESE SERVICES MIGHT BE HARMED BY LARGER LESS PRECISE EQUIPMENT.
4. THE CONTRACTOR SHALL LOCATE AND CLEARLY MARK (AND THEN PRESERVE THESE MARKERS) FOR THE DURATION OF CONSTRUCTION OF ALL UNDERGROUND UTILITIES, INCLUDING TELEPHONE, DATA, STREET LIGHT, SIGNAL LIGHT AND POWER FACILITIES, LOW TEMPERATURE HOT WATER AND CHILLED HOT WATER LINES THAT ARE IN OR NEAR THE AREA OF DEMOLITION.
5. CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND DISPOSAL OF SAID MATERIAL AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE DEMOLITION WORK.
8. CONTRACTOR SHALL PAY DISPOSAL FEES.
9. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION OF FOUNDATIONS & UTILITIES TO EXISTING GRADE AND TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER, AND/OR UNIVERSITY FIELD CONSTRUCTION MANAGER (FCM).
10. WITHIN LIMITS OF WORK, REMOVE CURBS, GUTTERS, LANDSCAPING, SIGNAGE, TREES, SHRUBS, ASPHALT, UNDERGROUND PIPES, ETC. AS INDICATED ON THE DRAWINGS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING ALL DEMOLITION MATERIALS, OR STORING SELECTED ITEMS BY UNIVERSITY'S REPRESENTATIVE AT DESIGNATED LOCATIONS.
12. PRIOR TO BEGINNING DEMOLITION WORK, CONTRACTOR TO NOTIFY AND COORDINATE THE REMOVAL AND/OR ABANDONMENT OF ALL AFFECTED UTILITIES WITH THE FCM.
13. CONTRACTOR RESPONSIBLE FOR PREPARING WASTE MANAGEMENT PLAN, TRAINING OF EMPLOYEES & SUBCONTRACTORS, AND ENSURING PROPER REMOVAL AND DISPOSAL OF ALL HAZARDOUS MATERIALS.
14. THESE DRAWINGS DO NOT ADDRESS CONTRACTOR MEANS, METHODS OR PROCESSES THAT MAY BE ASSOCIATED WITH ANY TOXIC SOILS IF FOUND ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL UNIVERSITY AND COUNTY STANDARDS AND APPROPRIATE REGULATIONS IF TOXIC SOILS ARE ENCOUNTERED. CONTRACTOR MUST NOTIFY THE FCM IMMEDIATELY IF ANY SOILS ARE EVEN SUSPECTED OF BEING CONTAMINATED.
15. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT, USA, FOR LOCATION AND MARKING OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION
16. CONTRACTOR SHALL MAINTAIN THE EXISTING SITE AND STREETS IN A SAFE AND USABLE MANNER SUCH THAT EMERGENCY VEHICLE ACCESS IS AVAILABLE AT ALL TIMES. CONTRACTOR TO SUPPLY, INSTALL AND MAINTAIN ALL NECESSARY FENCING, GATES, BARRICADES, SIGNAGE, AND PROVISIONS FOR ENSURING THE PROJECT'S SECURITY AND SAFE PASSAGEWAY AROUND IT.
17. CONTRACTOR SHALL GATHER ALL CONSTRUCTION DEBRIS ON A REGULAR BASIS AND PLACE IT IN A DUMPSTER OR OTHER CONTAINER WHICH IS EMPTIED OR REMOVED ON A REGULAR BASIS. WHEN APPROPRIATE, USE TAKE-UP ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORM WATER RUNOFF POLLUTION.
18. CONTRACTOR SHALL CLEAR AND GRUB WITHIN LIMIT OF WORK AS NEEDED TO PERFORM DEMOLITION ACTIVITIES.
19. SAWCUT & REMOVE HARDSCAPE SUCH AS, BUT NOT LIMITED TO, AC PAVEMENT, CURB, SIDEWALK, ETC.
20. TAKE ALL NECESSARY PRECAUTIONS NOT TO DAMAGE EXISTING UNDERGROUND UTILITY LINES TO REMAINS DURING DEMOLITION. CONTRACTOR TO HIRE AN INDEPENDENT UNDERGROUND UTILITY LOCATOR SERVICE TO LOCATE & PAINT UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES TO REMAINS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
21. CONTRACTOR TO GRIND/ROUND CONCRETE EDGE AFTER SAWCUTTING TO MAINTAIN APPEARANCE AND SAFETY.
22. CONTRACTOR SHALL SCHEDULE MEETING WITH STANFORD ARBORIST AND UA/CPD FOR REVIEW OF THE TREE PROTECTION PRIOR TO START OF CONSTRUCTION.
23. CONTRACTOR TO SCHEDULE MEETING WITH HIGH VOLTAGE SHOP PRIOR TO REMOVING ANY EXISTING PULLBOXES.

MATCHLINE - SEE SHEET C-3.1



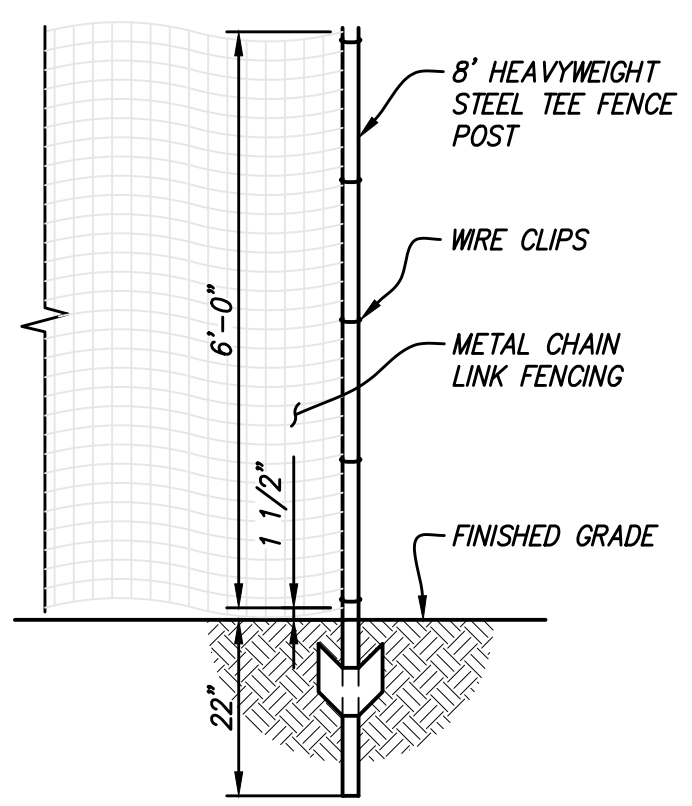
TREE DISPOSITION TABLE

	BOTANICAL & COMMON NAME	DIAMETER AT BREAST HEIGHT (IN.)	STATUS (REMOVE/REMAINS)	PROTECTED STATUS
4	TUSCARDORA CRAPE MYRTLE	3	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
5	TUSCARDORA CRAPE MYRTLE	3	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
6	TUSCARDORA CRAPE MYRTLE	3	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
7	TUSCARDORA CRAPE MYRTLE	2	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
8	TUSCARDORA CRAPE MYRTLE	3	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
9	TUSCARDORA CRAPE MYRTLE	3	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
10	JAPANESE MAPLE	5,5,4	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
11	GIANT SEQUOIA	10	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
15	GIANT SEQUOIA	9	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
16	COAST LIVE OAK	15	REMAINS	PROTECTED
17	COAST LIVE OAK	24	REMAINS	PROTECTED
18	COAST LIVE OAK	12	REMAINS	PROTECTED
20	GLOSSY PRIVET	6,6,5	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
21	WATER GUM	3	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
22	COAST LIVE OAK	5	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
23	WATER GUM	3	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
24	COAST LIVE OAK	31	REMAINS	NOT PROTECTED, SEE CONDITION B BELOW
25	COAST LIVE OAK	27	REMAINS	NOT PROTECTED, SEE CONDITION B BELOW
26	COAST LIVE OAK	24	REMAINS	NOT PROTECTED, SEE CONDITION B BELOW
27	COAST LIVE OAK	17	REMAINS	NOT PROTECTED, SEE CONDITION B BELOW
28	COAST LIVE OAK	5	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
30	COAST LIVE OAK	16	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
31	COAST LIVE OAK	20	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
32	COAST LIVE OAK	14	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
33	COAST LIVE OAK	36	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW

NOTES:  
 CONDITION A: TREE IS NOT DESIGNATED AS A PROTECTED TREE DUE TO THE DBH BEING LESS THAN 12".  
 CONDITION B: TREE IS NOT DESIGNATED AS A PROTECTED TREE DUE TO NOT BEING IDENTIFIED ON A PREVIOUS ASA.

STANFORD UNIVERSITY TREE PROTECTION PROCEDURES SUMMARY

1. WE HAVE STRICT REQUIREMENTS WHICH INCLUDE THE POINTS LISTED BELOW AND ADDITIONAL PROCEDURES AS DETAILED IN THE FDG SPECIFICATIONS GUIDELINE 01 56 39 TREE AND PLANT PROTECTION.
2. THE ROOT ZONE OF ALL TREES MUST BE PROTECTED ON ALL CONSTRUCTION PROJECTS, AS DESCRIBED BELOW. A TREE'S ROOT ZONE IS DEFINED AS LISTED IN DEFINITIONS 1.3b.
3. A STANFORD GROUNDS CERTIFIED ARBORIST SHALL BE CONTACTED TO EVALUATE ALL WORK WITHIN ANY TREES ROOT ZONES.
4. ALL TREES TO REMAINS ON A PROJECT SHALL HAVE PROTECTIVE FENCING INSTALLED PER THE TREE PROTECTION DRAWING INCLUDED IN THE PLAN SET.
5. PROTECTIVE FENCING SHALL BE CHAIN LINK ON SECURE FOOTINGS, OR IMBEDDED AS REQUIRED BY THE CAMPUS PLANNING AND DESIGN OFFICE OR A STANFORD GROUNDS CERTIFIED ARBORIST, THAT WILL NOT FALL OVER ONTO TREES.
6. PROTECTIVE FENCING SHALL BE PLACED AT THE OUTER EDGE OF THE ROOT ZONE, AS PER TREE PROTECTION PLAN 1.7.A.3, AND WHEREVER POSSIBLE AS SHOWN ON THE TREE PROTECTION DRAWING. IF PROJECT CONSTRAINTS DO NOT ALLOW FOR FENCING AT THE OUTER EDGE OF THE ROOT ZONE, FENCING MUST BE PLACED AS CLOSE TO THIS AS POSSIBLE AND APPROVED AFTER IT IS IN PLACE BY A STANFORD UNIVERSITY GROUNDS CERTIFIED ARBORIST.
7. LAYDOWN, STAGING AND PARKING AREAS SHALL BE APPROVED BY THE STANFORD UNIVERSITY ARCHITECT/CAMPUS PLANNING DEPARTMENT AND SHALL BE SHOWN ON THE PLANS IF WITHIN THE PROJECT LIMIT AREA, OR ON THE CONSTRUCTION LOGISTICS PLAN IF OUTSIDE THE PROJECT LIMIT AREA. ALL TREE PROTECTION GUIDELINES APPLY TO TREES IN LAYDOWN, STAGING AND PARKING AREAS AS WELL AS TO TREES WITHIN THE PROJECT LIMITS.
8. CONSTRUCTION MATERIALS/EQUIPMENT/PERSONAL VEHICLES SHALL NOT BE STORED, PARKED OR TEMPORARILY PLACED IN THE ROOT ZONE OF ANY TREES. NOTHING SHALL BE STORED OR PLACED TEMPORARILY WITHIN PROTECTIVE FENCING, TO AVOID SOIL COMPACTION AND SOIL CONTAMINATION UNDER TREES. ROOT ZONES OF TREES SHALL NOT BE DRIVEN OVER. PROVIDE ALTERNATIVE ROUTES FOR CONSTRUCTION TRAFFIC OF ANY KIND INCLUDING CARS, PEOPLE, TRACTORS, EQUIPMENT, CRANES, OR ANY OTHER TRAFFIC AND ALL STAGING OR STORAGE AREAS.
9. PROTECT OVERHANGING TREE CANOPIES FROM CONSTRUCTION DAMAGE. IF DRIVE AISLES ARE ANTICIPATED UNDER LOW CANOPIES CALL FOR AN EVALUATION BY A STANFORD GROUNDS CERTIFIED ARBORIST TO DETERMINE APPROPRIATE MEASURES.
10. THERE SHALL BE NO GRADE CHANGE WITHIN A MINIMUM OF TEN FEET OF THE TRUNK OF EXISTING TREES, AND PREFERABLY NONE WITHIN THE ENTIRE ROOT ZONE. NATIVE OAKS ARE PARTICULARLY SENSITIVE TO GRADE CHANGES.
11. NO RISING, CLEANING EQUIPMENT OR DUMPING CONSTRUCTION LIQUID MATERIALS SHALL BE ALLOWED IN THE TREE ROOT ZONE, OR IN AN AREA THAT DRAINS INTO THE ROOT ZONE. CARE SHALL BE TAKEN IN CLEANING UP EQUIPMENT. THERE SHALL BE NO STORAGE OF DUMPSTERS OR ACCUMULATED DEBRIS FROM DEMOLITION ON OR AROUND THE ROOT ZONES OF EXISTING TREES AND SHRUBS.
12. EXISTING TREES SHALL BE MONITORED WEEKLY AND IRRIGATED AS NEEDED DURING THE COURSE OF CONSTRUCTION.
13. NO LIME OR OTHER SOIL TREATMENT SHALL BE APPLIED WITHOUT THE CONSENT OF A STANFORD GROUNDS CERTIFIED ARBORIST.
14. ALL TRENCHING SHALL CONFORM TO THE FOLLOWING GUIDELINES.
  - A. STANFORD GROUNDS CERTIFIED ARBORIST IS REQUIRED TO BE PRESENT TO SUPERVISE ANY TRENCHING, DIGGING OR EXCAVATION OF ANY KIND WITHIN A TREE'S ROOT ZONE.
  - B. ROOTS LARGER THAN 2 INCHES IN DIAMETER SHALL NOT BE SEVERED WITHOUT CALLING A STANFORD GROUNDS CERTIFIED ARBORIST FOR CUTTING OR REVIEW.
  - C. TUNNELING OR BORING UNDER ROOTS RATHER THAN PRUNING IS PREFERRED.
  - D. DIGGING WITHIN A TREE'S ROOT ZONE SHALL BE AVOIDED. IF IT IS NECESSARY, HAND DIGGING SHALL BE USED FOR ANY TRENCHING WITHIN THE TREE'S ROOT ZONE UNLESS OTHERWISE APPROVED BY A STANFORD GROUNDS CERTIFIED ARBORIST.
  - E. ALL ROOTS THAT NEED TO BE CUT SHALL BE PERPENDICULAR PRUNED CLEANLY, NOT TORN.



- NOTES:
1. THE DRILLHOLE OF EACH TREE TO BE PROTECTED SHALL BE ENCLOSED WITH A 6" HIGH TEMPORARY FENCE. FENCE FABRIC SHALL BE HEAVY DUTY PERFORATED, BRIGHT COLORED, PLASTIC MESH. FENCE STAKES SHALL BE 8" HEAVY WEIGHT STEEL TEE FENCE POSTS DRIVEN 22" INTO GRADE.
  2. METAL CHAIN LINK FENCING ON SECURE FOOTINGS IMBEDDED WHERE REQUIRED BY CAMPUS PLANNING AND DESIGN OFFICE OR SGCA SHALL BE USED AT ALL TIMES TO PROTECT TREES EXCEPT IN AREAS WHERE IT WILL NOT PHYSICALLY FIT. ONLY IN AREAS WHERE IT CANNOT PHYSICALLY BE PLACED, MILL ORANGE PLASTIC SNOW FENCING WRAPPED 2" THICK AROUND THE TRUNK BE ALLOWED, AND ONLY AS APPROVED BY AN SOCA.

TREE PROTECTION DETAIL 1  
 N.T.S.

THE PRECEDING GUIDELINES SHALL BE CONSIDERED MINIMUM REQUIREMENTS. THE GREATER THE DISTANCE OF TREE PROTECTION PROVIDED THE GREATER THE INSTANCE OF TREE SUCCESS IN CONSTRUCTION AREAS.





ISSUES AND REVISIONS	
NO.	DESCRIPTION
01.27.2023	ASA SUBMITTAL
05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER 17007

SHEET TITLE

DEMOLITION PLAN

SCALE

1"=30'

SHEET NUMBER

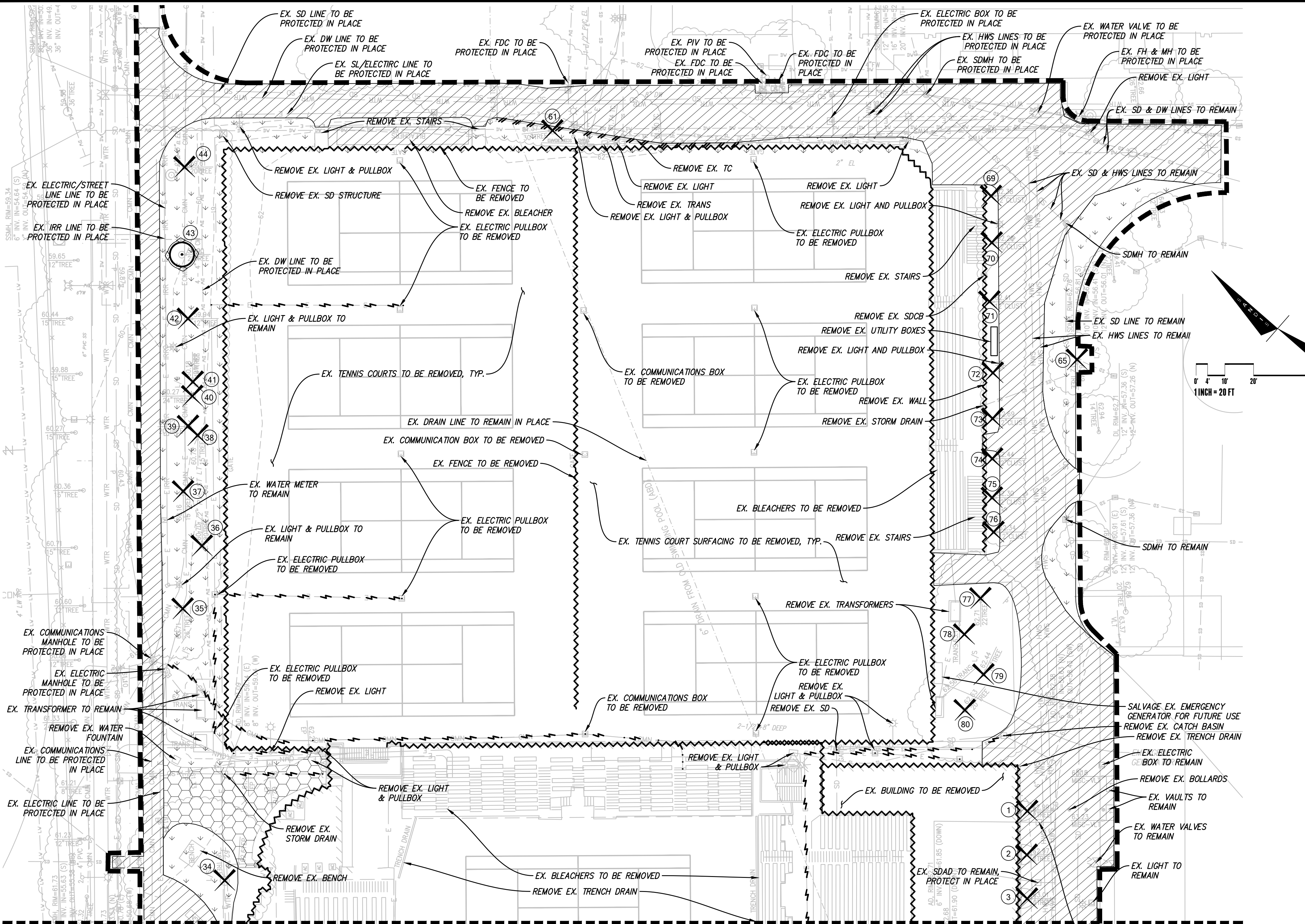
C-3.1

LEGEND

- (#) TREE NUMBER SEE TABLE THIS SHEET
- EXISTING TREE TO REMAINS. PROTECT IN PLACE. SEE NOTES ON THIS SHEET.
- EXISTING TREE TO BE REMOVED
- CLEAR & GRUB EXISTING LANDSCAPE
- REMOVE EXISTING CONCRETE INCLUDING ANY ASSOCIATED BASE ROCK AND REBAR. STABILIZE THE EXISTING SUBGRADE. DEMOLISHED MATERIAL MAY BE USED AS BASE ROCK IF APPROVED BY THE GEOTECHNICAL ENGINEER.
- REMOVE EXISTING AC PAVEMENT AND ANY ASSOCIATED BASE ROCK. STABILIZE THE EXISTING SUBGRADE. DEMOLISHED MATERIAL MAY BE USED AS BASE ROCK IF APPROVED BY GEOTECHNICAL ENGINEER.
- REMOVE EXISTING PAVERS
- DEMOLISH AND REMOVE EXISTING CURB AND GUTTER, INCLUDING ANY ASSOCIATED REBAR OR BASE ROCK. SAWCUT WITH NEAT, CLEAN EDGE.
- DEMOLISH AND REMOVE EX. UTILITY LINE. BACKFILL EMPTY TRENCH WITH APPROVED FILL PER GEOTECHNICAL REPORT.
- CAP EXISTING UTILITY WHERE SHOWN PER STANFORD SPECIFICATIONS AND REQUIREMENTS
- DEMOLISH AND REMOVE EX. STREET LIGHT, ELECTRICAL PULL BOX AND FOUNDATION. PULL ELECTRICAL CABLE BACK TO NEAREST SPLICE POINT AND SAFE OFF
- LIMIT OF WORK LINE
- SAWCUT LINE. CONTRACTOR SHALL SAWCUT WITH A NEAT, CLEAN EDGE. SAWCUT CONCRETE AT NEAREST JOINT TO SAWCUT LINE SHOWN ON PLAN.
- REMOVE EXISTING WALL OR FENCE INCLUDING ASSOCIATED FOOTINGS. RETURN FENCE TO OWNER.

SHEET NOTES

1. REMOVAL, PROTECTION, AND RELOCATION OF ELECTRICAL UTILITIES AND WATER LINES ARE SHOWN FOR REFERENCE ONLY AND ARE NOT COVERED BY THE GRADING PERMIT.
2. COORDINATE DEMOLITION WORK WITH STANFORD UNIVERSITY'S; ADHERE TO ALL THEIR REQUIREMENTS.
3. DEMOLITION AND CONSTRUCTION WORK MAY BE PERFORMED OVER THE TOP OF AND AROUND COMMUNICATION AND POWER SERVICES. CONTRACTOR SHALL WORK BY HAND IN ALL AREAS WHERE THESE SERVICES MIGHT BE HARMED BY LARGER LESS PRECISE EQUIPMENT.
4. THE CONTRACTOR SHALL LOCATE AND CLEARLY MARK (AND THEN PRESERVE THESE MARKERS) FOR THE DURATION OF CONSTRUCTION OF ALL UNDERGROUND UTILITIES, INCLUDING TELEPHONE, DATA, STREET LIGHT, SIGNAL LIGHT AND POWER FACILITIES, LOW TEMPERATURE HOT WATER AND CHILLED HOT WATER LINES THAT ARE IN OR NEAR THE AREA OF DEMOLITION.
5. CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND DISPOSAL OF SAID MATERIALS AS REQUIRED BY PRIVATE, LOCAL AND STATE JURISDICTIONS. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED WITH THE DEMOLITION WORK.
8. CONTRACTOR SHALL PAY DISPOSAL FEES.
9. BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION OF FOUNDATIONS & UTILITIES TO EXISTING GRADE AND TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER, AND/OR UNIVERSITY FIELD CONSTRUCTION MANAGER (FCM).
10. WITHIN LIMITS OF WORK, REMOVE CURBS, GUTTERS, LANDSCAPING, SIGNAGE, TREES, SHRUBS, ASPHALT, UNDERGROUND PIPES, ETC. AS INDICATED ON THE DRAWINGS.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING ALL DEMOLITION MATERIALS, OR STORING SELECTED ITEMS BY UNIVERSITY'S REPRESENTATIVE AT DESIGNATED LOCATIONS.
12. PRIOR TO BEGINNING DEMOLITION WORK, CONTRACTOR TO NOTIFY AND COORDINATE THE REMOVAL AND/OR ABANDONMENT OF ALL AFFECTED UTILITIES WITH THE FCM.
13. CONTRACTOR RESPONSIBLE FOR PREPARING WASTE MANAGEMENT PLAN, TRAINING OF EMPLOYEES & SUBCONTRACTORS, AND ENSURING PROPER REMOVAL AND DISPOSAL OF ALL HAZARDOUS MATERIALS.
14. THESE DRAWINGS DO NOT ADDRESS CONTRACTOR MEANS, METHODS OR PROCESSES THAT MAY BE ASSOCIATED WITH ANY TOXIC SOILS IF FOUND ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL UNIVERSITY AND COUNTY STANDARDS AND APPROPRIATE REGULATIONS IF TOXIC SOILS ARE ENCOUNTERED. CONTRACTOR MUST NOTIFY THE FCM IMMEDIATELY IF ANY SOILS ARE EVEN SUSPECTED OF BEING CONTAMINATED.
15. CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT, USA, FOR LOCATION AND MARKING OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION
16. CONTRACTOR SHALL MAINTAIN THE EXISTING SITE AND STREETS IN A SAFE AND USABLE MANNER SUCH THAT EMERGENCY VEHICLE ACCESS IS AVAILABLE AT ALL TIMES. CONTRACTOR TO SUPPLY, INSTALL AND MAINTAIN ALL NECESSARY FENCING, GATES, BARRICADES, SIGNAGE, AND PROVISIONS FOR ENSURING THE PROJECT'S SECURITY AND SAFE PASSAGEWAY AROUND IT.
17. CONTRACTOR SHALL GATHER ALL CONSTRUCTION DEBRIS ON A REGULAR BASIS AND PLACE IT IN A DUMPSTER OR OTHER CONTAINER WHICH IS EMPTIED OR REMOVED ON A REGULAR BASIS. WHEN APPROPRIATE, USE TAPPS ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORM WATER RUNOFF POLLUTION.
18. CONTRACTOR SHALL CLEAR AND GRUB WITHIN LIMIT OF WORK AS NEEDED TO PERFORM DEMOLITION ACTIVITIES.
19. SAWCUT & REMOVE HARDSCAPE SUCH AS, BUT NOT LIMITED TO, AC PAVEMENT, CURB, SIDEWALK, ETC.
20. TAKE ALL NECESSARY PRECAUTIONS NOT TO DAMAGE EXISTING UNDERGROUND UTILITY LINES TO REMAINS DURING DEMOLITION. CONTRACTOR TO HIRE AN INDEPENDENT UNDERGROUND UTILITY LOCATOR SERVICE TO LOCATE & PAINT UTILITIES IN THE FIELD PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES TO REMAINS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
21. CONTRACTOR TO GRIND/ROUND CONCRETE EDGE AFTER SAWCUTTING TO MAINTAIN APPEARANCE AND SAFETY.
22. CONTRACTOR SHALL SCHEDULE MEETING WITH STANFORD ARBORIST AND UA/CPD FOR REVIEW OF THE TREE PROTECTION PRIOR TO START OF CONSTRUCTION.
23. CONTRACTOR TO SCHEDULE MEETING WITH HIGH VOLTAGE SHOP PRIOR TO REMOVING ANY EXISTING PULLBOXES.



MATCHLINE - SEE SHEET C-3.0

TREE DISPOSITION TABLE

TREE TAG	BOTANICAL & COMMON NAME	DIAMETER AT BREST HEIGHT (IN.)	STATUS (REMOVE/REMAINS)	PROTECTED STATUS
1	TUSCARDRA CRAPE MYRTLE	2	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
2	TUSCARDRA CRAPE MYRTLE	2	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
3	TUSCARDRA CRAPE MYRTLE	2	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
34	COAST LIVE OAK	33	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
35	COAST LIVE OAK	15,15	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
36	COAST LIVE OAK	21	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
37	COAST LIVE OAK	16	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
38	COAST LIVE OAK	9	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
39	COAST LIVE OAK	14	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
40	COAST LIVE OAK	23	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
41	COAST LIVE OAK	11	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
42	COAST LIVE OAK	8	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
43	COAST LIVE OAK	23	REMAINS	NOT PROTECTED, SEE CONDITION B BELOW

NOTES:  
 CONDITION A: TREE IS NOT DESIGNATED AS A PROTECTED TREE DUE TO THE DBH BEING LESS THAN 12".  
 CONDITION B: TREE IS NOT DESIGNATED AS A PROTECTED TREE DUE TO NOT BEING IDENTIFIED ON A PREVIOUS ASA.

TREE DISPOSITION TABLE

TREE TAG	BOTANICAL & COMMON NAME	DIAMETER AT BREST HEIGHT (IN.)	STATUS (REMOVE/REMAINS)	PROTECTED STATUS
44	COAST LIVE OAK	16	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
61	COAST LIVE OAK	33	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
65	DEODAR CEDAR	9	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
69	NATCHEZ CRAPE MYRTLE	4,3,3,2,2	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
70	NATCHEZ CRAPE MYRTLE	4,4,4,3,2	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
71	NATCHEZ CRAPE MYRTLE	4,4,2	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
72	NATCHEZ CRAPE MYRTLE	3,3,2	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
73	NATCHEZ CRAPE MYRTLE	4,4,3,2,2	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
74	NATCHEZ CRAPE MYRTLE	4,3,2,2,2	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
75	NATCHEZ CRAPE MYRTLE	4,3,3,3	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
76	NATCHEZ CRAPE MYRTLE	4,3,3,3,2,2	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
77	DEODAR CEDAR	18	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
78	DEODAR CEDAR	16	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
79	DEODAR CEDAR	16	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW
80	DEODAR CEDAR	20	REMOVE	NOT PROTECTED, SEE CONDITION B BELOW

NOTES:  
 CONDITION A: TREE IS NOT DESIGNATED AS A PROTECTED TREE DUE TO THE DBH BEING LESS THAN 12".  
 CONDITION B: TREE IS NOT DESIGNATED AS A PROTECTED TREE DUE TO NOT BEING IDENTIFIED ON A PREVIOUS ASA.





ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	01.27.2023	ASA SUBMITTAL
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
17007

SHEET TITLE

GRADING & DRAINAGE PLAN

SCALE

1"=30'

SHEET NUMBER

C-4.0

LEGEND

- LIMIT OF WORK
- SAWCUT LINE
- CONTOURS
- PROPOSED CONCRETE
- PROPOSED LANDSCAPE AREA, SEE LANDSCAPE PLANS FOR DETAILS
- PROPOSED CONCRETE PAVERS
- PROPOSED ASPHALT CONCRETE
- PROPOSED TREES, SEE LANDSCAPE PLANS FOR DETAILS

GRADING NOTES

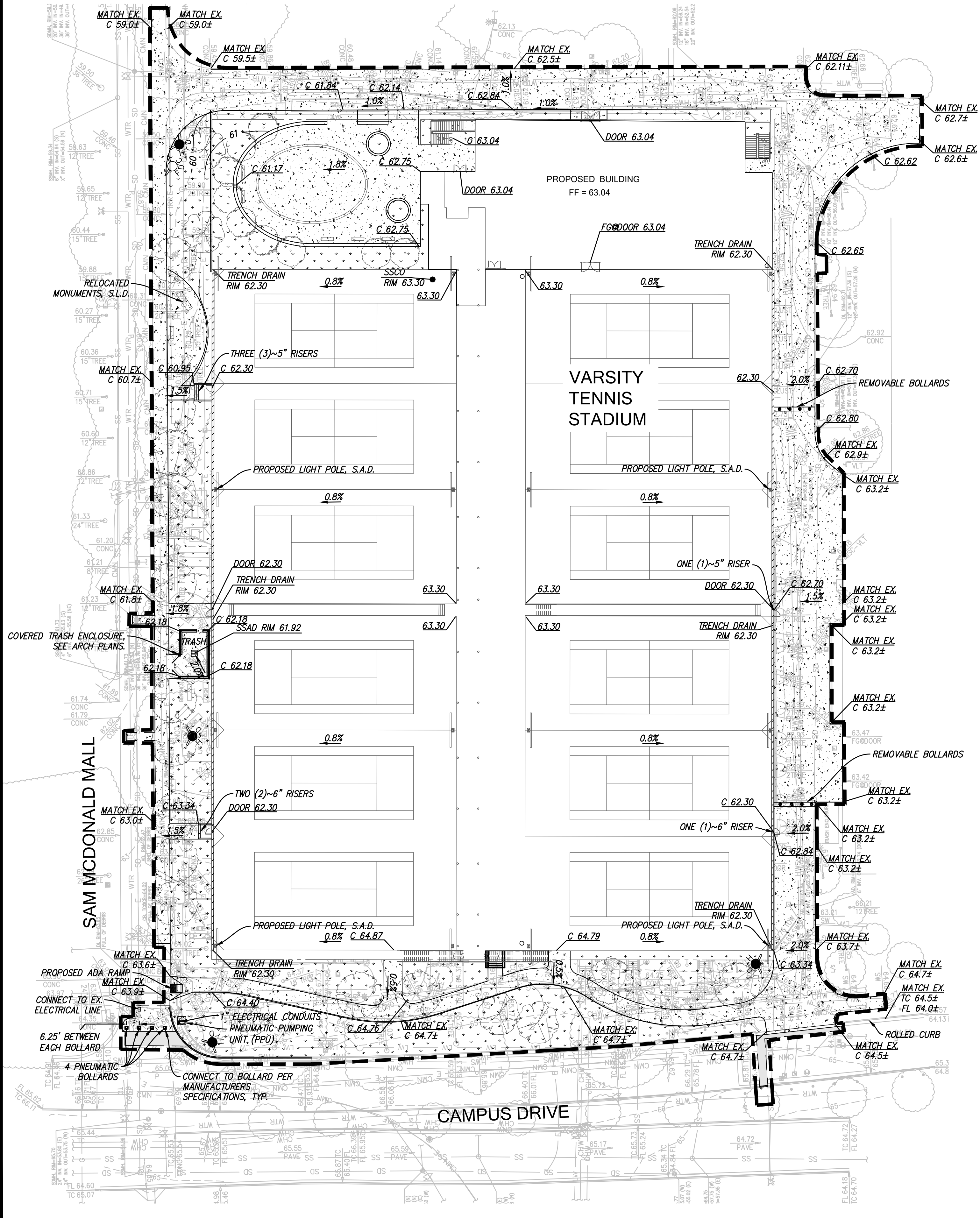
1. GRADE IMPERVIOUS AREAS AT 2% AWAY FROM THE BUILDING FOR MINIMUM 5' PER BUILDING CODE.
2. GRADE PERVIOUS AREAS AT 5% MINIMUM AWAY FROM BUILDING UNLESS OTHERWISE NOTED.

GENERAL NOTES

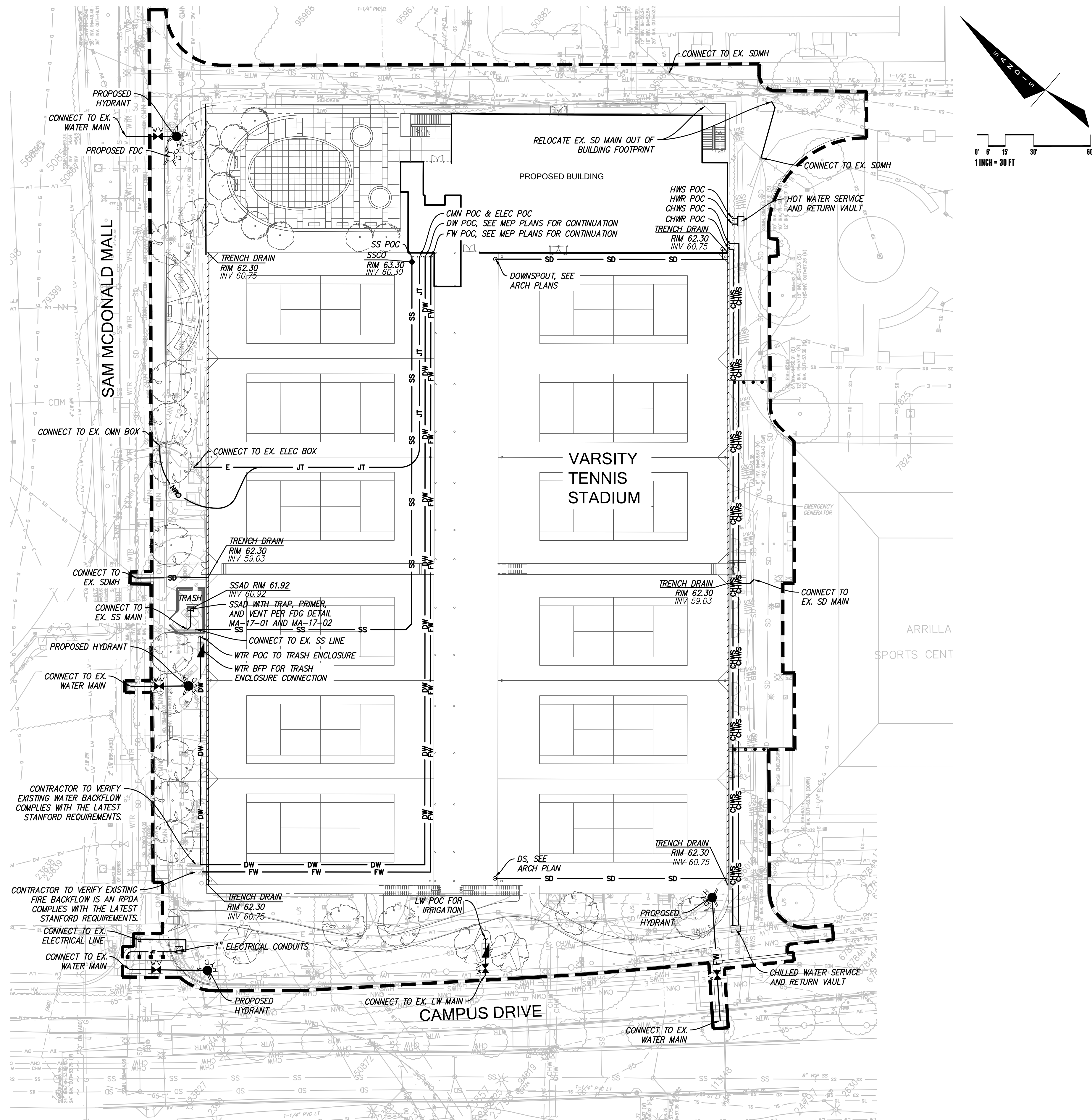
1. ADJUST ANY UTILITY RIM/STRUCTURES TO PROPOSED GRADE PRIOR TO INSTALLING FINAL LIFT OF AC OR POURING CONCRETE.
2. CONTRACTOR SHALL HOLD 1/4" THRESHOLD BELOW FINISH FLOOR OF DOORWAYS.

ADA NOTES

1. ALL SITE WORK SHALL BE IN CONFORMANCE WITH TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE AND WITH THE AMERICANS WITH DISABILITIES ACT.
2. CURB RAMPS SHALL NOT EXCEED A SLOPE OF 1:12 (8.33%).
3. RAMPS TO BUILDINGS SHALL NOT EXCEED A SLOPE OF 1:20 (5%) UNLESS RAILINGS ARE SHOWN ON ARCHITECTURAL PLANS, IN WHICH CASE THE SLOPE SHALL NOT EXCEED 1:12 (8.33%).
4. A 2% MAXIMUM SLOPE LANDING SHALL BE PROVIDED AT PRIMARY ENTRANCES TO BUILDINGS, THE LANDINGS SHALL HAVE A MINIMUM WIDTH OF 60" AND A MINIMUM DEPTH OF 60" WHEN THE DOOR OPENS INTO THE BUILDING, AND 42" PLUS THE WIDTH OF THE DOOR WHEN THE DOOR OPEN ONTO THE LANDING.
5. RAMPS ARE DEFINED AS ANY WALKWAY BETWEEN SLOPES OF 1:20 (5%) AND 1:12 (8.33%), AND SHALL HAVE A MINIMUM WIDTH OF 48" AND A MAXIMUM CROSS-SLOPE OF 2%. RAMPS EXCEEDING 2'-6" VERTICAL SHALL HAVE INTERMEDIATE (2% MAXIMUM SLOPE) LANDINGS HAVING A MINIMUM LENGTH IN THE DIRECTION OF TRAVEL OF 60". BOTTOM LANDINGS AT CHANGES IN RAMP DIRECTION SHALL HAVE A MINIMUM LENGTH OF 72".
6. MAXIMUM CROSS SLOPE ON ANY SIDEWALK OR RAMP SHALL BE 2% MAXIMUM SLOPE WITHIN PARKING STALLS DESIGNATED AS HANDICAPPED PARKING SHALL BE 2% IN ANY DIRECTION.
7. ALL SIDEWALK SHALL HAVE A 4' MINIMUM CLEAR WIDTH FOR ACCESSIBLE CONFORMANCE.







**LEGEND**

- SD PROPOSED SD LINE
- SS PROPOSED SS LINE
- WTR PROPOSED WTR LINE
- PROPOSED FIRE HYDRANT
- PROPOSED FIRE DEPARTMENT CONNECTION
- BACK FLOW PREVENTOR
- WATER VALVE
- PROPOSED DOWNSPOUT, SEE ARCH PLAN
- LIMIT OF WORK

**STORM DRAIN NOTES**

1. PRIVATE STORM DRAIN LINE 4-INCH THROUGH 12-INCH WITH A MINIMUM OF TWO (2) FEET OF COVER IN NON-TRAFFIC AREAS SHALL BE POLYVINYL CHLORIDE (PVC) SDR 35 GREEN PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034-73 WITH BELLS AND SPIGOT CONNECTIONS. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, 22.5° ELBOWS, 45° ELBOWS OR LONG SWEEP ELBOWS, 90° ELBOWS AND TEE'S ARE PROHIBITED.
2. PRIVATE STORM DRAIN LINE 6-INCH THROUGH 12-INCH WITH LESS THAN THREE (3) FEET OF COVER IN VEHICULAR TRAFFIC AREAS SHALL BE POLYVINYL CHLORIDE (PVC) C900, RATED FOR 150 PSI CLASS PIPE. PROVIDE AND INSTALL "STORM DRAIN" MARKER TAPE FOR THE ENTIRE LENGTH OF PIPE TRENCH. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, OBTUSE ELBOWS OR LONG SWEEP ELBOWS, 90° ELBOWS AND TEE'S ARE PROHIBITED.
3. ALL AREA DRAINS AND CATCH BASINS GRATES WITHIN PEDESTRIAN ACCESSIBLE AREAS SHALL MEET ADA REQUIREMENTS.
4. ALL TRENCHES SHALL BE BACK FILLED PER THE SPECIFICATIONS WITH APPROPRIATE TESTS BY THE GEOTECHNICAL ENGINEER TO VERIFY COMPACTION VALUES.
5. FOR GRAVITY FLOW SYSTEMS CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE CONNECTED TO OR CROSSED PRIOR TO THE TRENCHING OR INSTALLATION OF ANY GRAVITY FLOW SYSTEM.
6. DRAINS SHOWN ON CIVIL PLANS ARE NOT INTENDED TO BE THE FINAL NUMBER AND LOCATION OF ALL DRAINS. PLACEMENT AND NUMBER OF LANDSCAPING DRAINS ARE HIGHLY DEPENDENT ON GROUND COVER TYPE AND PLANT MATERIAL. CONTRACTOR SHALL ADD ADDITIONAL AREA DRAINS AS NEEDED AND AS DIRECTED BY THE LANDSCAPE ARCHITECT.
7. ALL DOWN SPOUTS SHALL DISCHARGE DIRECTLY ON TO ADJACENT PAVEMENT SURFACES OR SPLASH BLOCKS UNLESS OTHERWISE NOTED ON PLANS. SEE ARCHITECTURE PLANS FOR EXACT LOCATION OF THE DOWN SPOUTS.

**SANITARY SEWER NOTES**

1. ALL SEWER WORK SHALL BE IN CONFORMANCE WITH THE STANFORD UNIVERSITY STANDARDS.
2. PRIVATE SANITARY SEWER MAIN AND SERVICE LINE 4-INCH THROUGH 12-INCH SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 GREEN SEWER PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034-73 WITH BELL AND SPIGOT CONNECTIONS. ALL DIRECTION CHANGES SHALL BE MADE WITH WYE CONNECTIONS, 22.5° ELBOWS OR 45° ELBOWS, 90° ELBOWS AND TEE'S ARE PROHIBITED.
3. ALL LATERALS SHALL HAVE A TWO WAY CLEANOUT AT FACE OF BUILDING AND AS SHOWN ON PLANS.
4. IF (E) SEWER LATERAL IS TO BE USED, CONTRACTOR SHALL VIDEO INSPECT, PERFORM PRESSURE TEST ON (E) SEWER LATERAL, AND SHALL PERFORM ANY NEEDED REPAIRS.

**WATER SYSTEM NOTES**

1. MAINTAIN WATER MAIN LINES 10' AWAY FROM SANITARY SEWER MAIN LINES. LATERALS SHALL BE SEPARATED PER PLAN DIMENSIONS.
2. WHERE WATER LINES HAVE TO CROSS SANITARY SEWER LINES, DO SO AT A 90 DEGREE ANGLE AND WATER LINES SHALL BE MINIMUM OF 12" ABOVE TOP OF SANITARY SEWER LINES.
3. ALL WATER SERVICE CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE STANFORD UNIVERSITY STANDARDS.
4. ALL WATER LINES SHALL BE INSTALLED WITH 36" MINIMUM COVER.
5. THRUST RESTRAINTS SHALL BE DESIGNED AND INSTALLED AT ALL TEES, CROSSES, BENDS (HORIZONTAL AND VERTICAL), AT SIZE CHANGES AND AT FIRE HYDRANTS.

Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA. 94305  
 Quad/ Bldg. Number: 09-345



ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	01.27.2023	ASA SUBMITTAL
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER 17007

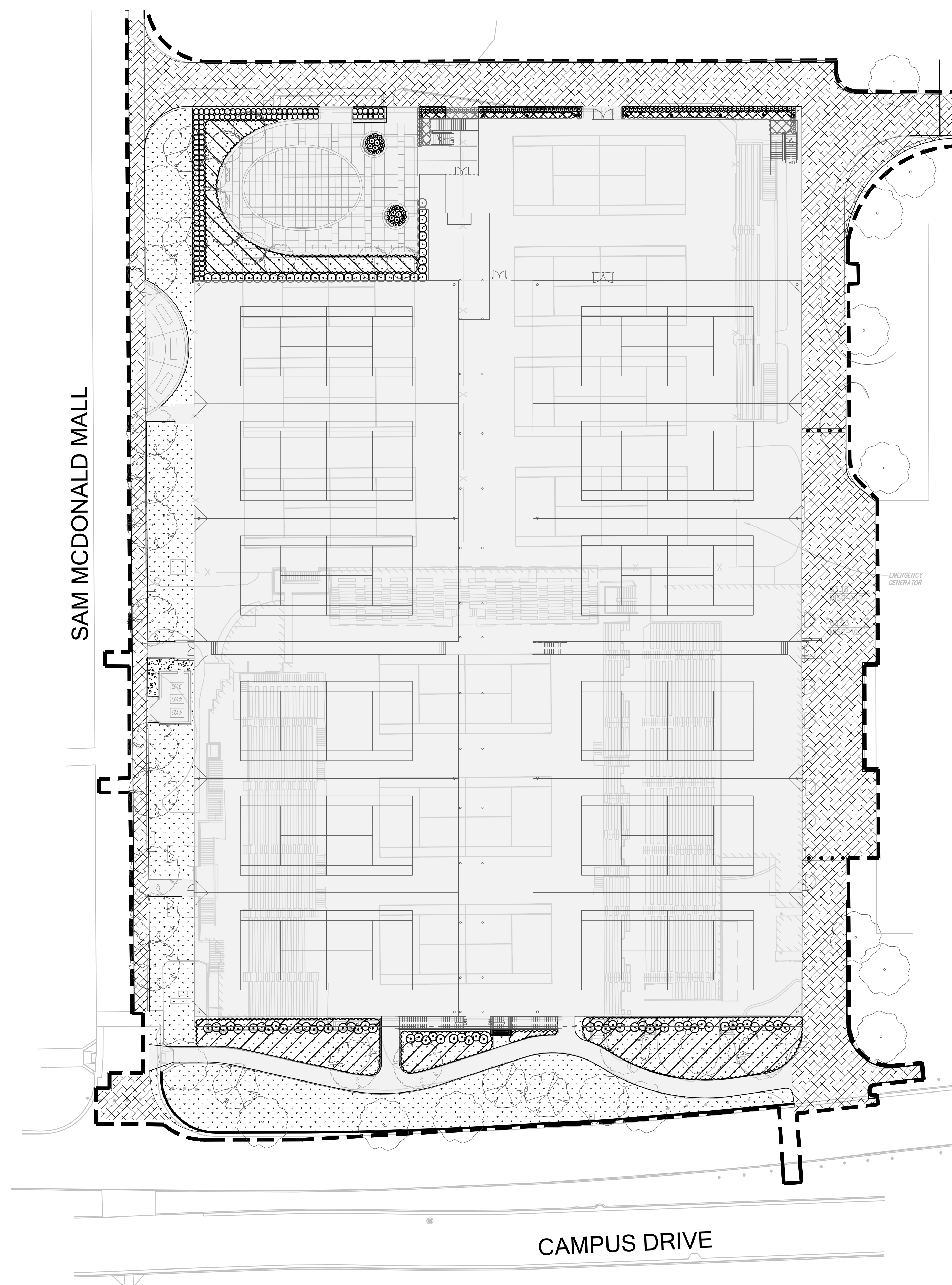
SHEET TITLE  
**UTILITY PLAN**

SCALE  
 1"=30'

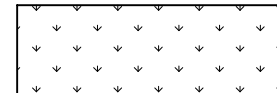



SHEET NUMBER

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### STORMWATER MANAGEMENT PLAN LEGEND

-  PROPOSED PERVIOUS AREA (21,857 SF)
-  PROPOSED IMPERVIOUS AREA (114,950 SF)
-  REPLACED VEHICULAR IMPERVIOUS AREA (23,159 SF)
-  LIMIT OF WORK

### SITE TREATMENT AREA NOTE:

THIS PROJECT IS REPLACING MORE THAN 50% OF THE EXISTING IMPERVIOUS AREA WITHIN THE STANFORD VARSITY TENNIS PROJECT LIMITS, THEREFORE THE PROJECT WILL TREAT ALL THE IMPERVIOUS AREA WITHIN THE PROJECT LIMIT.

### STORMWATER MANAGEMENT NOTES:

1. THIS PLAN PRESENTS METHODS AND CALCULATIONS FOR COMPLYING WITH THE REQUIREMENTS OF PROVISION C.3 OF THE MUNICIPAL REGIONAL STORMWATER PERMIT IN ACCORDANCE WITH THE SANTA CLARA COUNTY PROGRAM AND THE STANFORD REQUIREMENTS.
2. C.3 TREATMENT REQUIREMENTS FOR THIS PROJECT WILL BE ADDRESSED UTILIZING IN-LIEU CAPACITY CREDITS PROVIDED BY THE FELT LAKE (EAST CAMPUS) STORM WATER CAPTURE SYSTEM (COUNTY FILE NO. 11044-17C3).

### DRAINAGE AREA:

PROPOSED IMPERVIOUS	114,950 SF
PROPOSED PERVIOUS	21,857 SF
REPLACED VEHICULAR IMPERVIOUS	23,159 SF
TOTAL	159,966 SF

### EXISTING AND PROPOSED AREA QUANTITIES

	EXISTING	PROPOSED
IMPERVIOUS	140,309 SF	138,109 SF
PERVIOUS	19,657 SF	21,857 SF
TOTAL	159,966 SF	159,966 SF

PROJECT NAME:	Varsity Tennis Center	WATERSHED:	Matedero Creek
PROJECT IMPERVIOUS AREA SUMMARY			
VEHICULAR (SF)	23,159	NON-VEHICULAR (SF)	114,950

NOTE:  
 1. THIS PROJECT IS LOCATED OUTSIDE THE REGIONAL CAPTURETRIBUTARY AREA  
 2. IN-LIEU CREDIT USED IS THE PORTION OF REGULATED IMPERVIOUS, LOCATED OUTSIDE THE REGIONAL CAPTURETRIBUTARY AREA, THAT IS MEETING MRP SECTION C.3 USING IN-LIEU CREDITS FROM REGIONAL STORMWATER TREATMENT FACILITIES.

Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA. 94305  
 Quad/ Bldg. Number: 09-345



ISSUES AND REVISIONS	
NO.	DESCRIPTION
01.27.2023	ASA SUBMITTAL
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PROJECT NUMBER  
17007

SHEET TITLE

STORMWATER MANAGEMENT PLAN

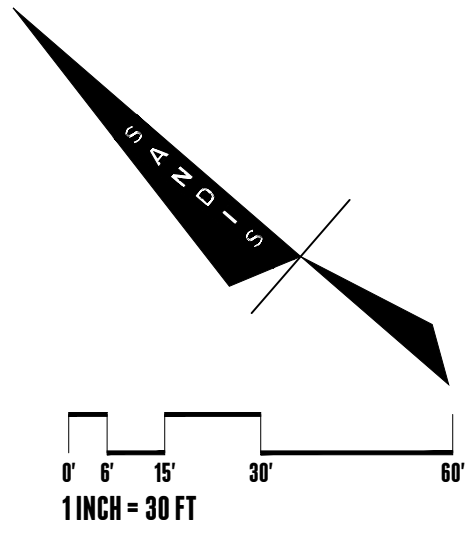
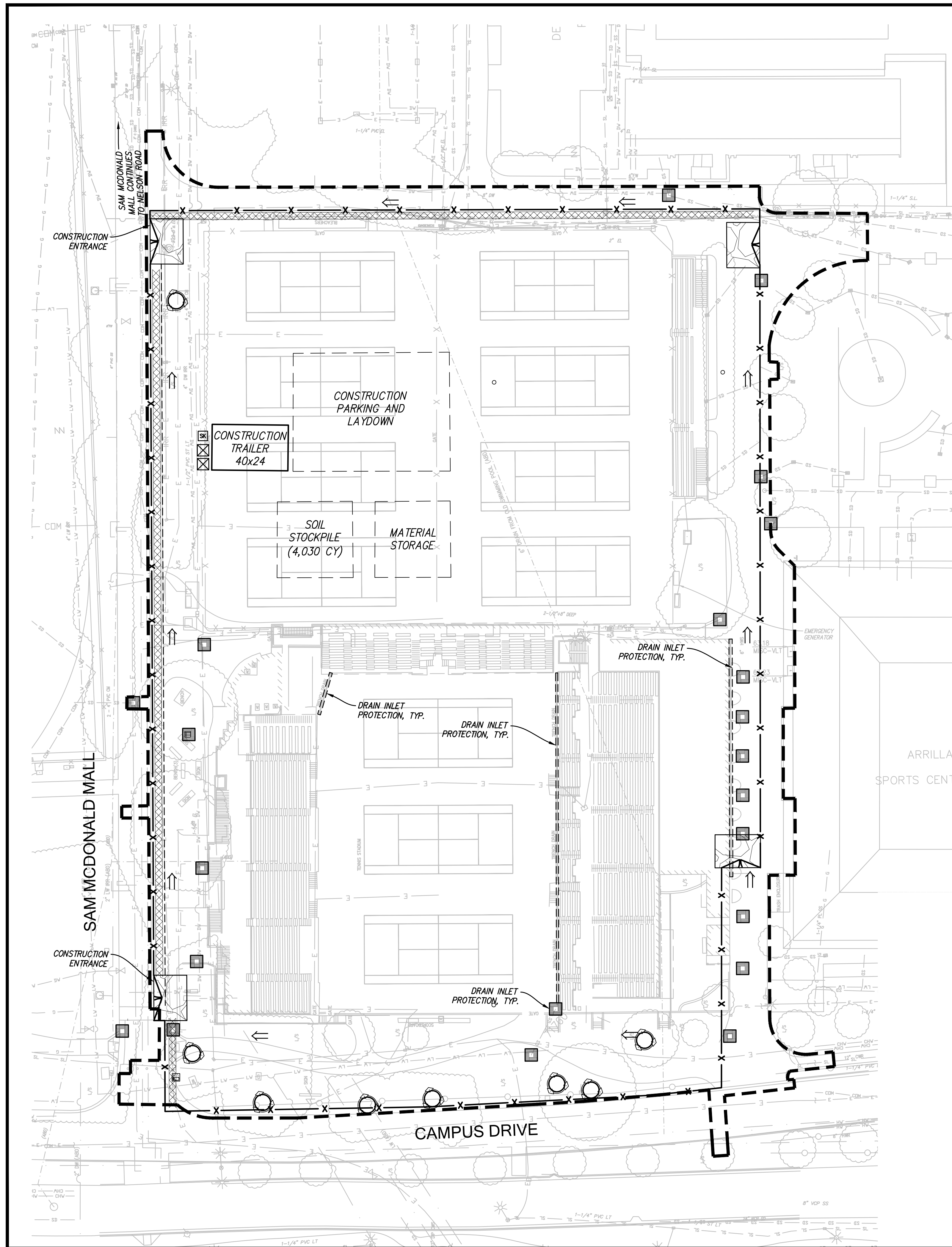
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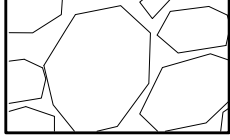





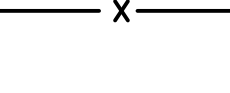



SHEET NUMBER

C-6.0





**LEGEND**

-  CONSTRUCTION ENTRANCE  $\frac{3}{C-7.1}$
-  CONCRETE WASHOUT  $\frac{2}{C-7.2}$
-  SK SPILL KIT
-  PORTABLE RESTROOM
-  CONSTRUCTION TRAILER CONSTRUCTION TRAILER (DURATION 18 MONTHS)
-  OVERLAND RELEASE POINT
-  CONSTRUCTION FENCE WITH STRAW WATTLE  $\frac{1}{C-7.1}$
-  DRAIN INLET PROTECTION  $\frac{6}{C-7.2}$
-  TREE PROTECTION FENCING  $\frac{1}{C-3.0}$
-  APPROXIMATE AREA OF CONSTRUCTION DISTURBANCE

**WATER POLLUTION CONTROL NOTES:**

- A. THIS PLAN IS FOR STORMWATER POLLUTION CONTROL DURING CONSTRUCTION IF NO SWPPP IS REQUIRED. IF A SWPPP FOR THE PROJECT HAS BEEN ISSUED THE PROJECT SWPPP OVERRIDES ANYTHING SHOWN ON THIS PLAN.
- B. TEMPORARY CONSTRUCTION ENTRANCE/EXIT LOCATION SHOWN IS APPROXIMATE. CONTRACTOR TO PROVIDE LOCATION WHERE APPROPRIATE.
- C. THIS PLAN REPRESENTS POSSIBLE WATER POLLUTION CONTROL MEASURES INCLUDING EROSION CONTROL AND SEDIMENT CONTROL.
- D. EXISTING SURFACES SHALL BE UNDISTURBED TO THE EXTENT PRACTICAL.
- E. GROUND WATER SHALL NOT BE DISCHARGED WITH STORM WATER. GROUND WATER DEWATERING OPERATIONS SHALL BE COORDINATED AS NEEDED WITH OWNER.
- F. CONTRACTOR SHALL PROVIDE EFFECTIVE SOIL COVER FOR AREAS OF CONSTRUCTION ACTIVITY THAT HAVE BEEN DISTURBED AND ARE NOT SCHEDULED TO BE ACTIVE FOR AT LEAST 14 DAYS.
- G. ALL EROSION CONTROL AND SEDIMENT CONTROLS TO BE OBTAINED INSTALLED AND MAINTAINED AS REQUIRED IN PROJECT SWPPP.
- H. CONTRACTOR TO INSTALL RUN-ON AND RUN-OFF CONTROL MEASURES ACCORDING TO PLANS OR AS NECESSARY TO ENSURE SEDIMENT IS NOT TRANSPORTED FROM SITE.
- I. CONTRACTOR TO PROVIDE BACK-UP EROSION PREVENTION MEASURES (SOIL STABILIZATION) WITH SEDIMENT CONTROL MEASURES SUCH AS STRAW WATTLES, SILT FENCE, GRAVEL INLET FILTERS, AND/OR SEDIMENT TRAPS OR BASINS. ENSURE CONTROL MEASURES ARE ADEQUATE, IN PLACE, AND IN OPERABLE CONDITIONS. SEDIMENT CONTROLS, INCLUDING INLET PROTECTION, ARE NECESSARY BUT SHOULD BE A SECONDARY DEFENSE BEHIND GOOD EROSION CONTROL MEASURES.
- J. STOCKPILE LOCATION(S) TO BE DETERMINED BY THE CONTRACTOR. COORDINATE WITH SITE OSP.
- K. ALL CONCRETE TRUCKS TO USE CHUTE WASH BUCKETS FOR CONCRETE RINSE. ALL CONCRETE PUMPS TO CAPTURE CONCRETE RINSE IN SECONDARY CONTAINMENT AND PROPERLY DISPOSE.
- L. STREET SWEEPING SHALL BE CHECKED DAILY TO ENSURE DEPOSITED SEDIMENT AND DEBRIS DOES NOT ENTER THE STORM DRAIN SYSTEM. USE REGENERATIVE VACUUM STREET CLEANER TO MITIGATE AIR AND WATER POLLUTION.
- M. RUNOFF THAT HAS CONTACTED AMENDED SOIL AREAS SHALL NOT BE ALLOWED TO LEAVE THE SITE OR ENTER THE STORM DRAIN SYSTEM.

Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA. 94305  
 Quad/ Bldg. Number: 09-345



ISSUES AND REVISIONS	
NO.	DATE DESCRIPTION
01.27.2023	ASA SUBMITTAL
05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER 17007

SHEET TITLE  
**EROSION CONTROL PLAN**

SCALE  
 1"=30'

SHEET NUMBER

**C-7.0**





ISSUES AND REVISIONS	
NO.	DESCRIPTION
01.27.2023	ASA SUBMITTAL
05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
17007

SHEET TITLE

COUNTY BMP NOTES

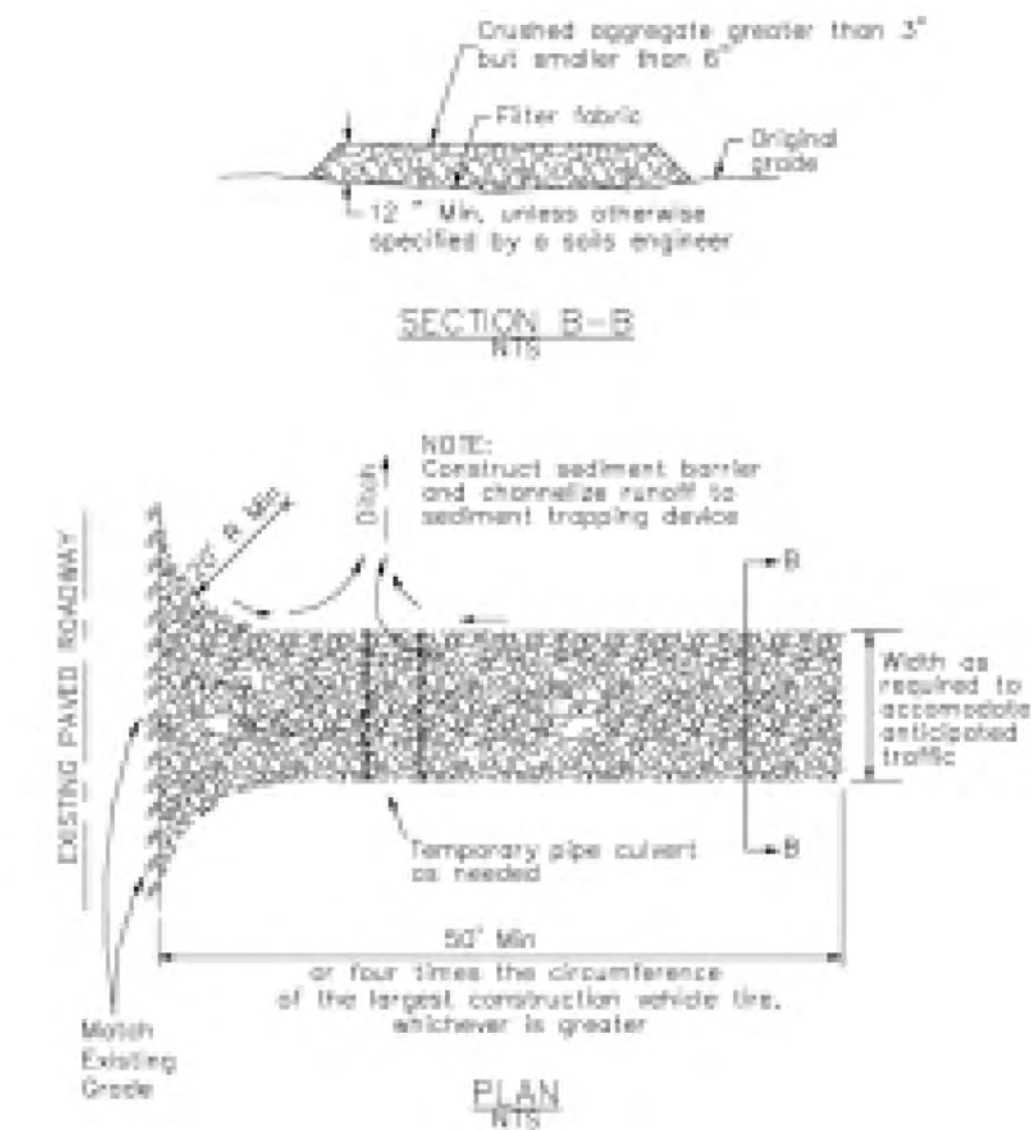
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1"=30'

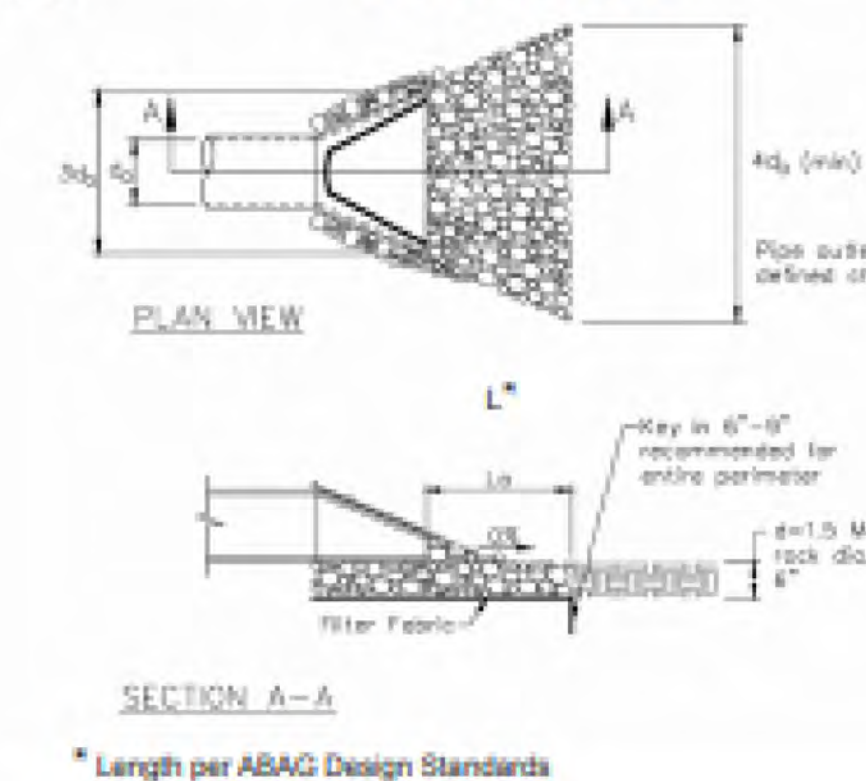
SHEET NUMBER

Project Information

**3 Stabilized Construction Entrance/Exit**  
 CASQA Detail TC-1

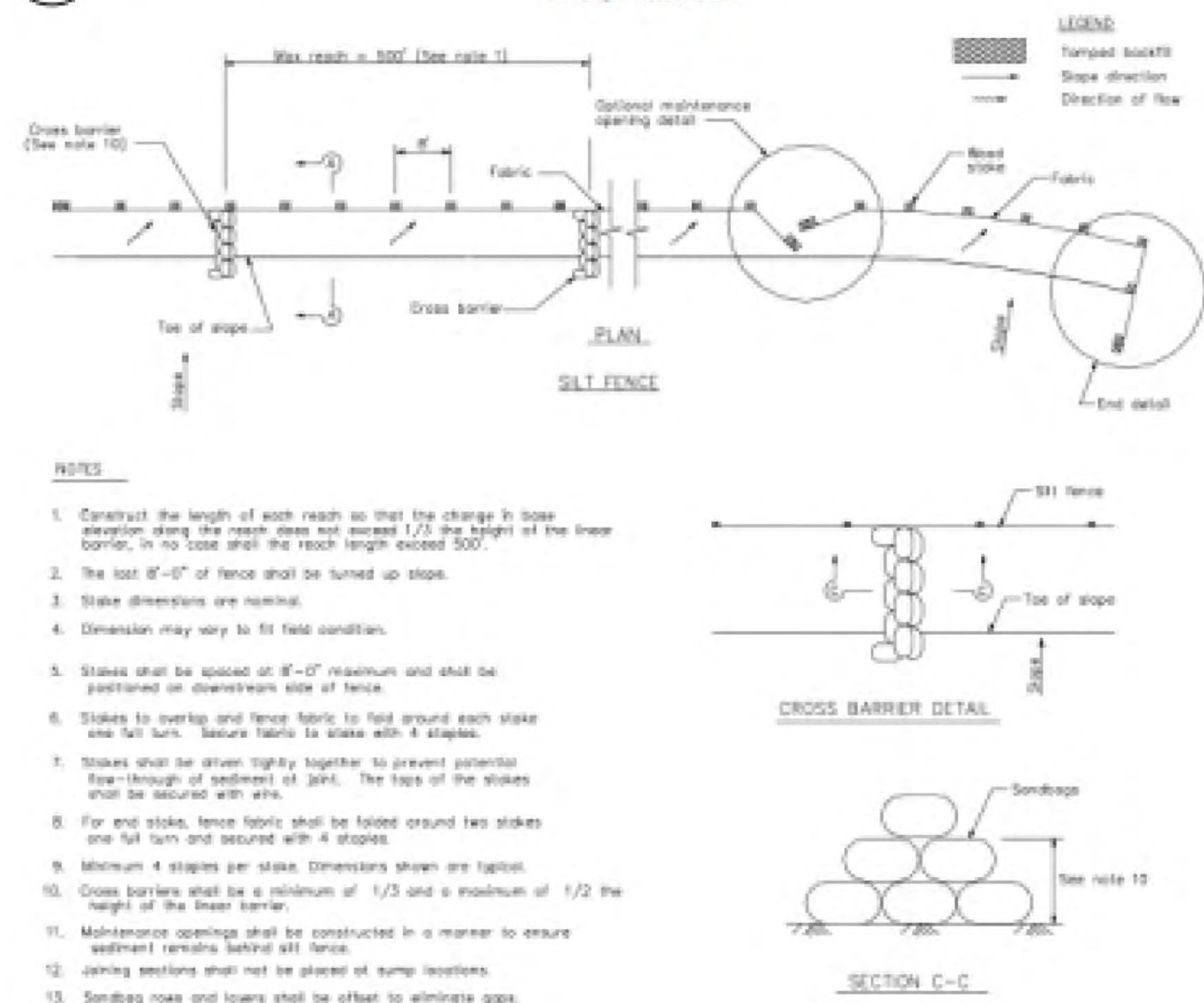


**4 Velocity Dissipation Devices**  
 CASQA Detail EC-10

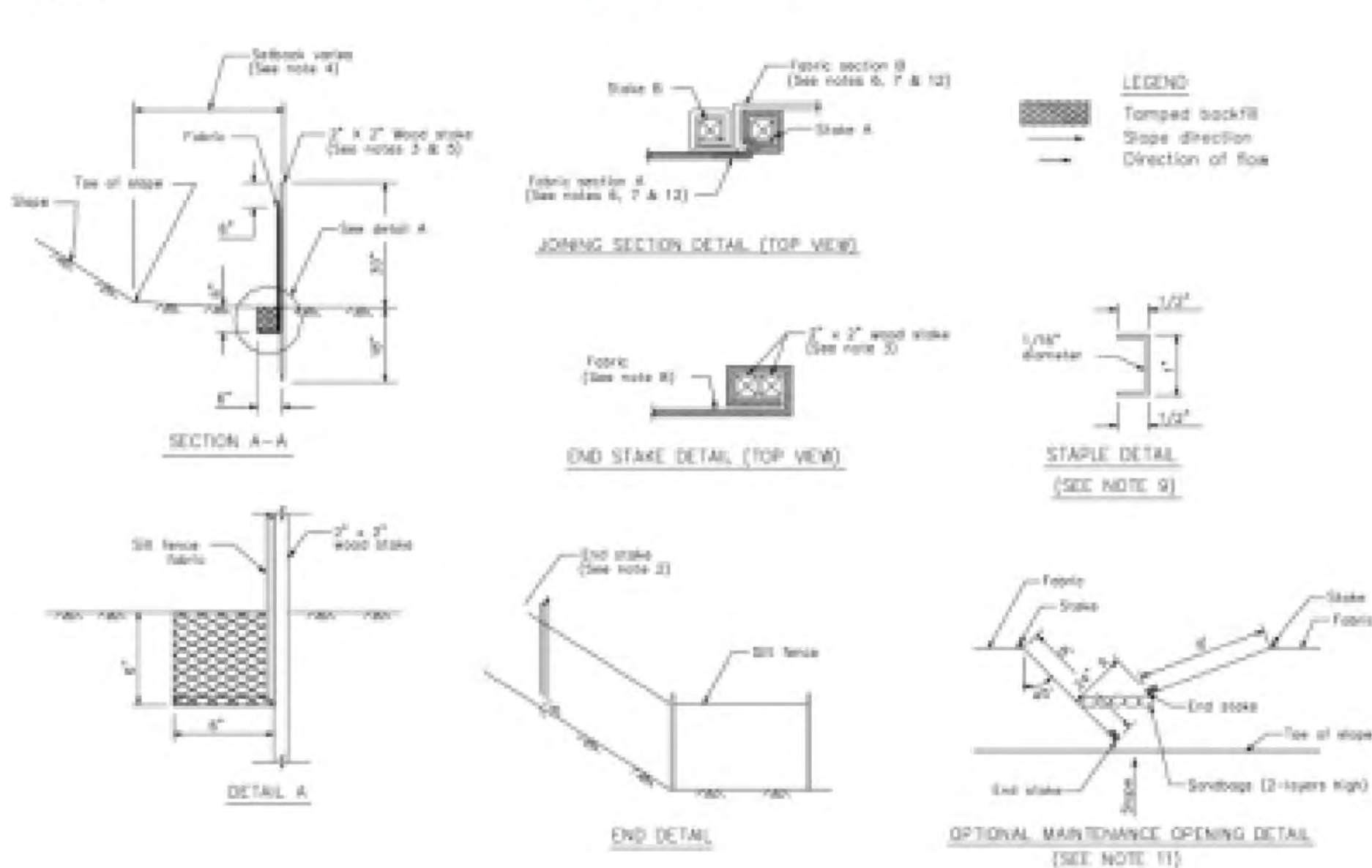


Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003. Available from www.cabmphandbooks.com.

**1 Silt Fence**  
 CASQA Detail SE-1



**2 Silt Fence**  
 CASQA Detail SE-1



**STANDARD BEST MANAGEMENT PRACTICE NOTES**

1. **Solid and Demolition Waste Management:** Provide designated waste collection areas and containers on site away from streets, gutters, storm drains, and waterways, and arrange for regular disposal. Waste containers must be watertight and covered at all times except when waste is deposited. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C-3) or latest.
2. **Hazardous Waste Management:** Provide proper handling and disposal of hazardous wastes by a licensed hazardous waste material handler. Hazardous wastes shall be stored and properly labeled in sealed containers constructed of suitable materials. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-5 to C-6) or latest.
3. **Spill Prevention and Control:** Provide proper storage areas for liquid and solid materials, including chemicals and hazardous substances, away from streets, gutters, storm drains, and waterways. Spill control materials must be kept on site where readily accessible. Spills must be cleaned up immediately and contaminated soil disposed properly. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-7 to C-8, C-13 to C-14) or latest.
4. **Vehicle and Construction Equipment Service and Storage:** An area shall be designated for the maintenance, where on-site maintenance is required, and storage of equipment that is protected from stormwater run-on and runoff. Measures shall be provided to capture any waste oils, lubricants, or other potential pollutants and these wastes shall be properly disposed of off site. Fueling and major maintenance/repair, and washing shall be conducted off-site whenever feasible. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C-9) or latest.
5. **Material Delivery, Handling and Storage:** In general, materials should not be stockpiled on site. Where temporary stockpiles are necessary and approved by the County, they shall be covered with secured plastic sheeting or tarp and located in designated areas near construction entrances and away from drainage paths and waterways. Barriers shall be provided around storage areas where materials are potentially in contact with runoff. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-11 to C-12) or latest.
6. **Handling and Disposal of Concrete and Cement:** When concrete trucks and equipment are washed on-site, concrete wastewater shall be contained in designated containers or in a temporary lined and watertight pit where wasted concrete can harden for later removal. If possible have concrete contractor remove concrete wash water from site. In no case shall fresh concrete be washed into the road right-of-way. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-15 to C-16) or latest.
7. **Pavement Construction Management:** Prevent or reduce the discharge of pollutants from paving operations, using measures to prevent run-on and runoff pollution and properly disposing of wastes. Avoid paving in the wet season and reachtable paving when rain is in the forecast. Residue from saw-cutting shall be vacuumed for proper disposal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-17 to C-18) or latest.
8. **Contaminated Soil and Water Management:** Inspections to identify contaminated soils should occur prior to construction and at regular intervals during construction. Remediating contaminated soil should occur promptly after identification and be specific to the contaminant identified, which may include hazardous waste removal. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-19 to C-20) or latest.
9. **Sanitary/Septic Water Management:** Temporary sanitary facilities should be located away from drainage paths, waterways, and traffic areas. Only licensed sanitary and septic waste handlers should be used. Secondary containment should be provided for all sanitary facilities. Refer to Erosion & Sediment Control Field Manual, 4th Edition (page C-21) or latest.
10. **Inspection & Maintenance:** Areas of material and equipment storage sites and temporary sanitary facilities must be inspected weekly. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.

**STANDARD EROSION CONTROL NOTES**

1. **Sediment Control Management:**
  - Tracking Prevention & Clean Up:** Activities shall be organized and measures taken as needed to prevent or minimize tracking of soil onto the public street system. A gravel or proprietary device construction entrance/cut is required for all sites. Clean up of tracked material shall be provided by means of a street sweeper prior to an approaching rain event, or at least once at the end of each workday that material is tracked, or more frequently as determined by the County Inspector. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-31 to B-33) or latest.
  - Storm Drain Inlet and Catch Basin Inlet Protection:** All inlets within the vicinity of the project and within the project limits shall be protected with gravel bags placed around inlets or other inlet protection. At locations where exposed soils are present, staked fiber rolls or staked silt fences can be used. Inlet filters are not allowed due to clogging and subsequent flooding. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-49 to B-51) or latest.
  - Storm Water Runoff:** No storm water runoff shall be allowed to drain in to the existing and/or proposed underground storm drain system or other above ground watercourses until appropriate erosion control measures are fully installed.
  - Dust Control:** The contractor shall provide dust control in graded areas as required by providing wet suppression or chemical stabilization of exposed soils, providing for rapid clean up of sediments deposited on paved roads, furnishing construction road entrances and vehicle wash down areas, and limiting the amount of areas disturbed by clearing and earth moving operations by scheduling these activities in phases.
  - Stockpiling:** Excavated soils shall not be placed in streets or on paved areas. Borrow and temporary stockpiles shall be protected with appropriate erosion control measures (taps, straw bales, silt fences, etc.) to ensure silt does not leave the site or enter the storm drain system or neighboring watercourse.
2. **Erosion Control:** During the rainy season, all disturbed areas must include an effective combination of erosion and sediment control. It is required that temporary erosion control measures are applied to all disturbed soil areas prior to a rain event. During the non-rainy season, erosion control measures must be applied sufficient to control wind erosion at the site.
3. **Inspection & Maintenance:** Disturbed areas of the Project's site, locations where vehicles enter or exit the site, and all erosion and sediment controls that are identified as part of the Erosion Control Plans must be inspected by the Contractor before, during, and after storm events, and at least weekly during seasonal wet periods. Problem areas shall be identified and appropriate additional and/or alternative control measures implemented immediately, within 24 hours of the problem being identified.
4. **Project Completion:** Prior to project completion and signoff by the County Inspector, all disturbed areas shall be reseeded, planted, or landscaped to minimize the potential for erosion on the subject site.
5. It shall be the Owner's/Contractor's responsibility to maintain control of the entire construction operation and to keep the entire site in compliance with the erosion control plan.
6. Erosion and sediment control best management practices shall be operable year round or until vegetation is fully established on landscaped surfaces.

Best Management Practices and Erosion Control Details Sheet 1  
 County of Santa Clara

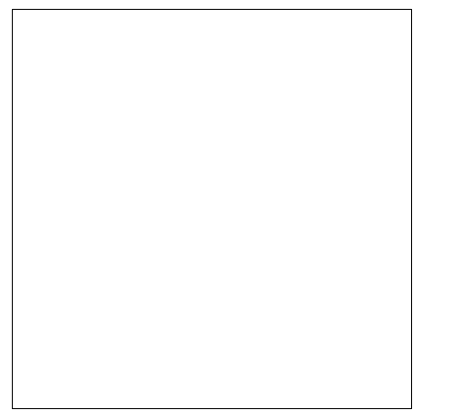


BMP-1

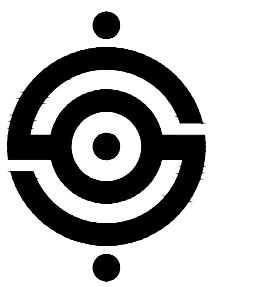
C-7.1



Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
 Stanford CA. 94305  
 Quad/ Bldg. Number: 09-345



ARCHITECTS



SANDIS

ISSUES AND REVISIONS

NO.	DATE	DESCRIPTION
	01.27.2023	ASA SUBMITTAL
	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER  
17007

SHEET TITLE

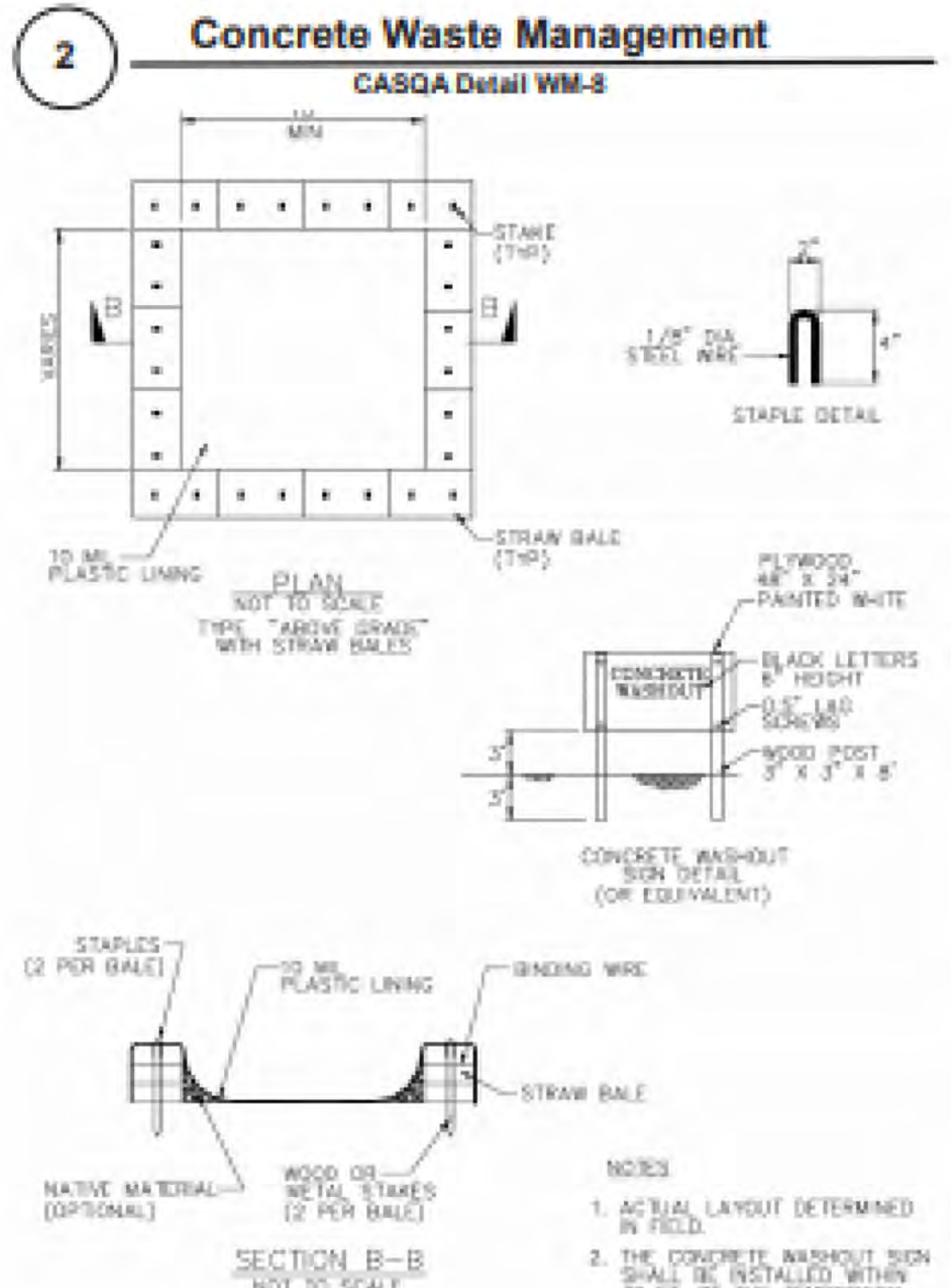
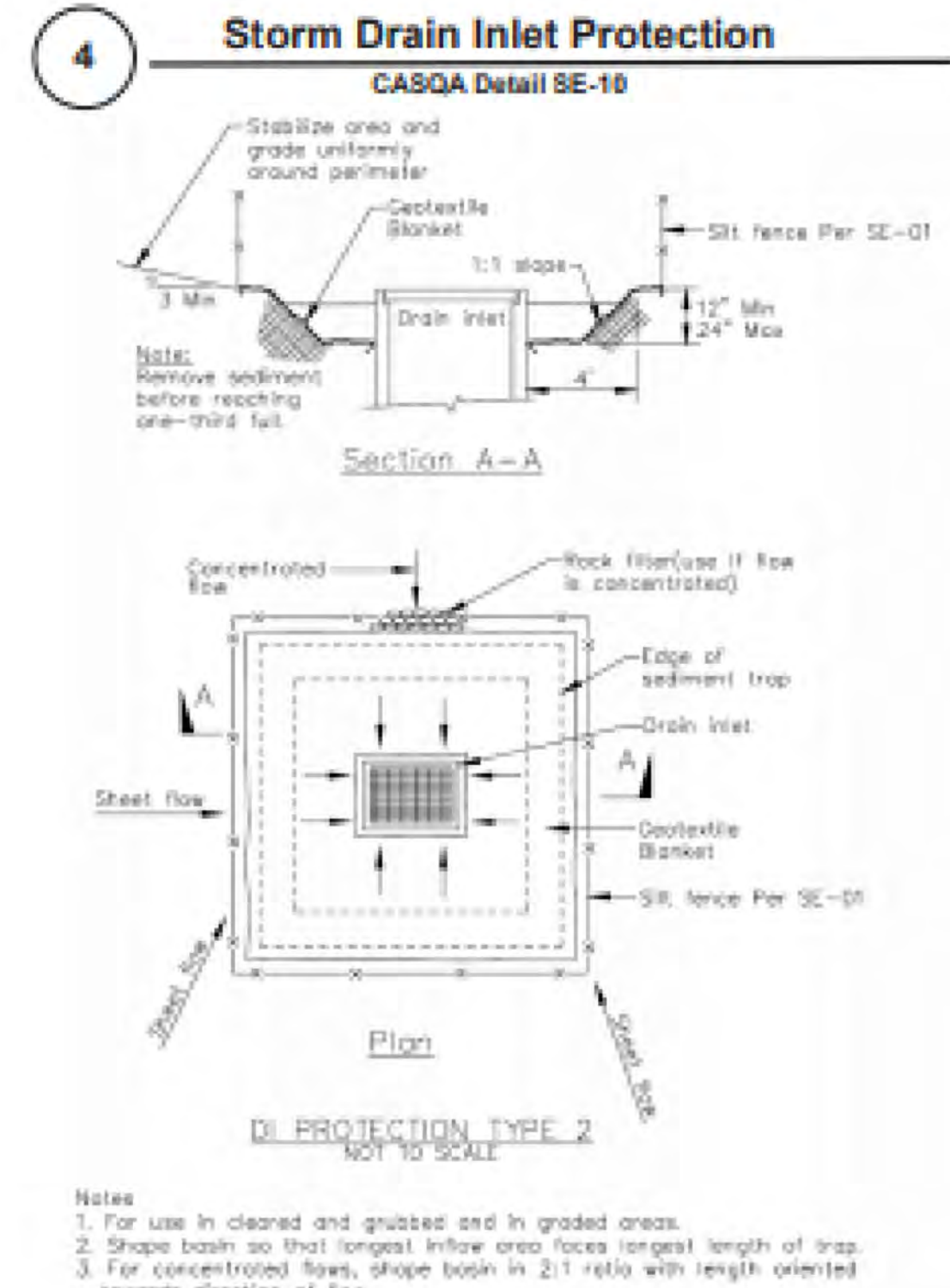
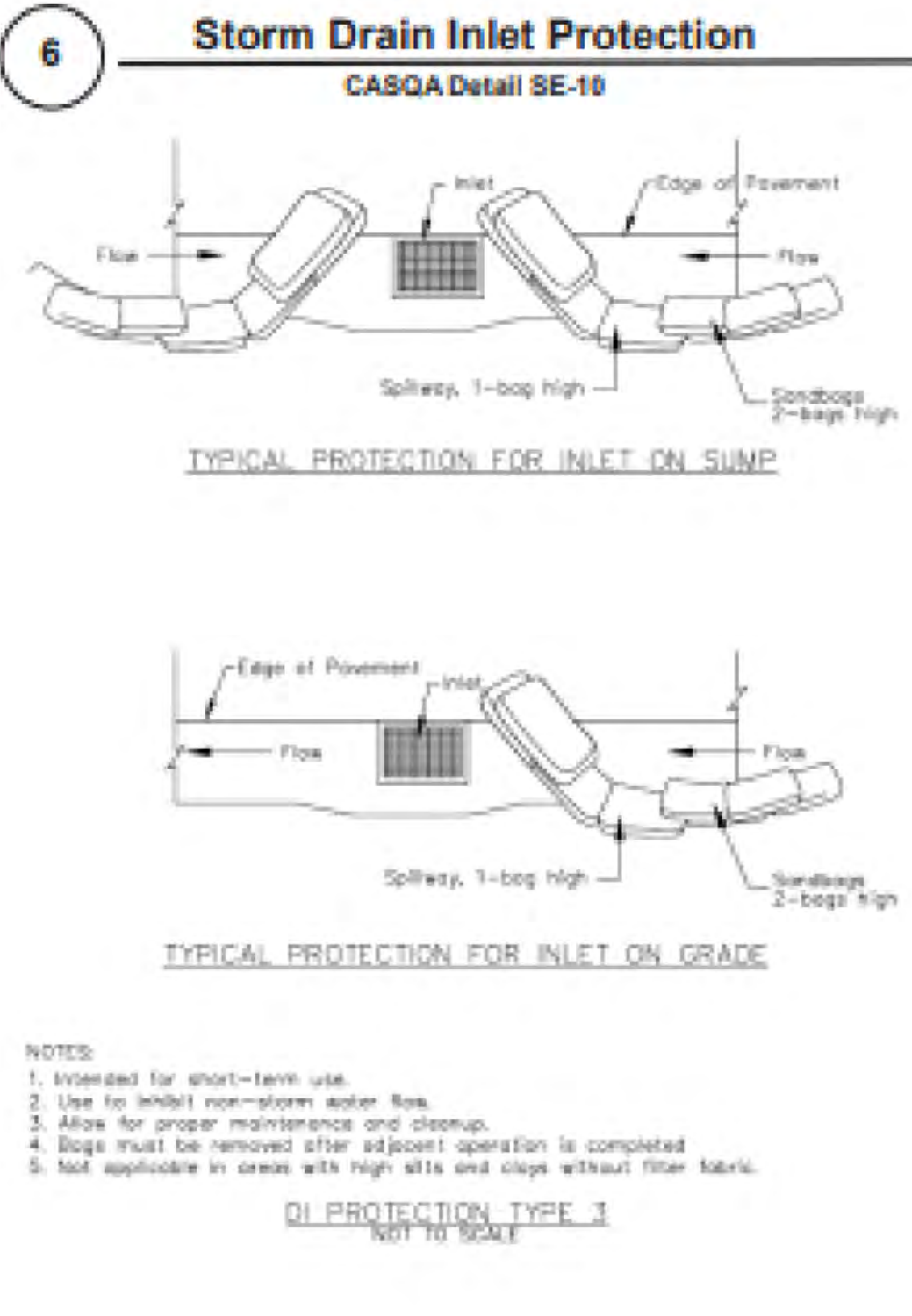
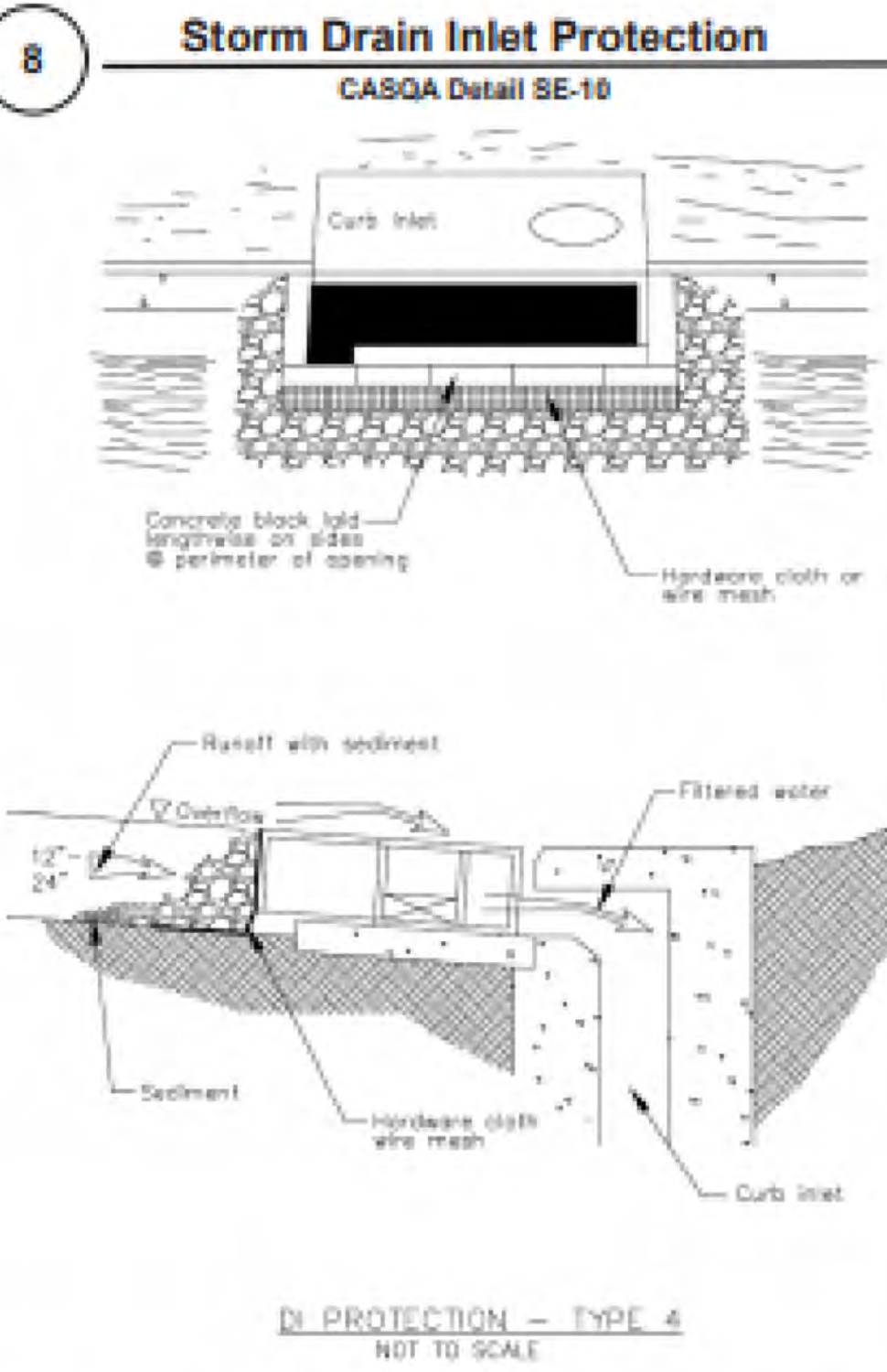
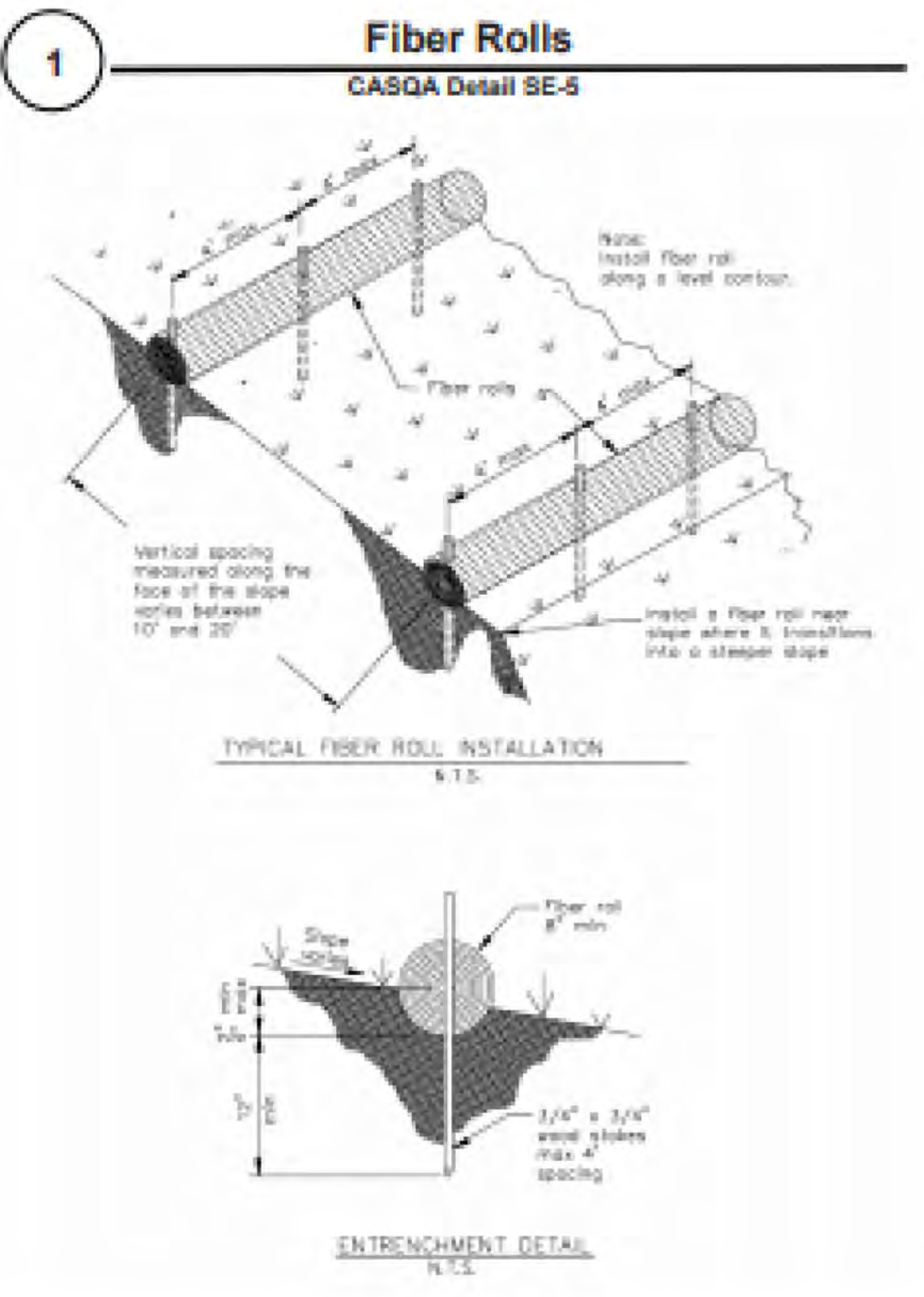
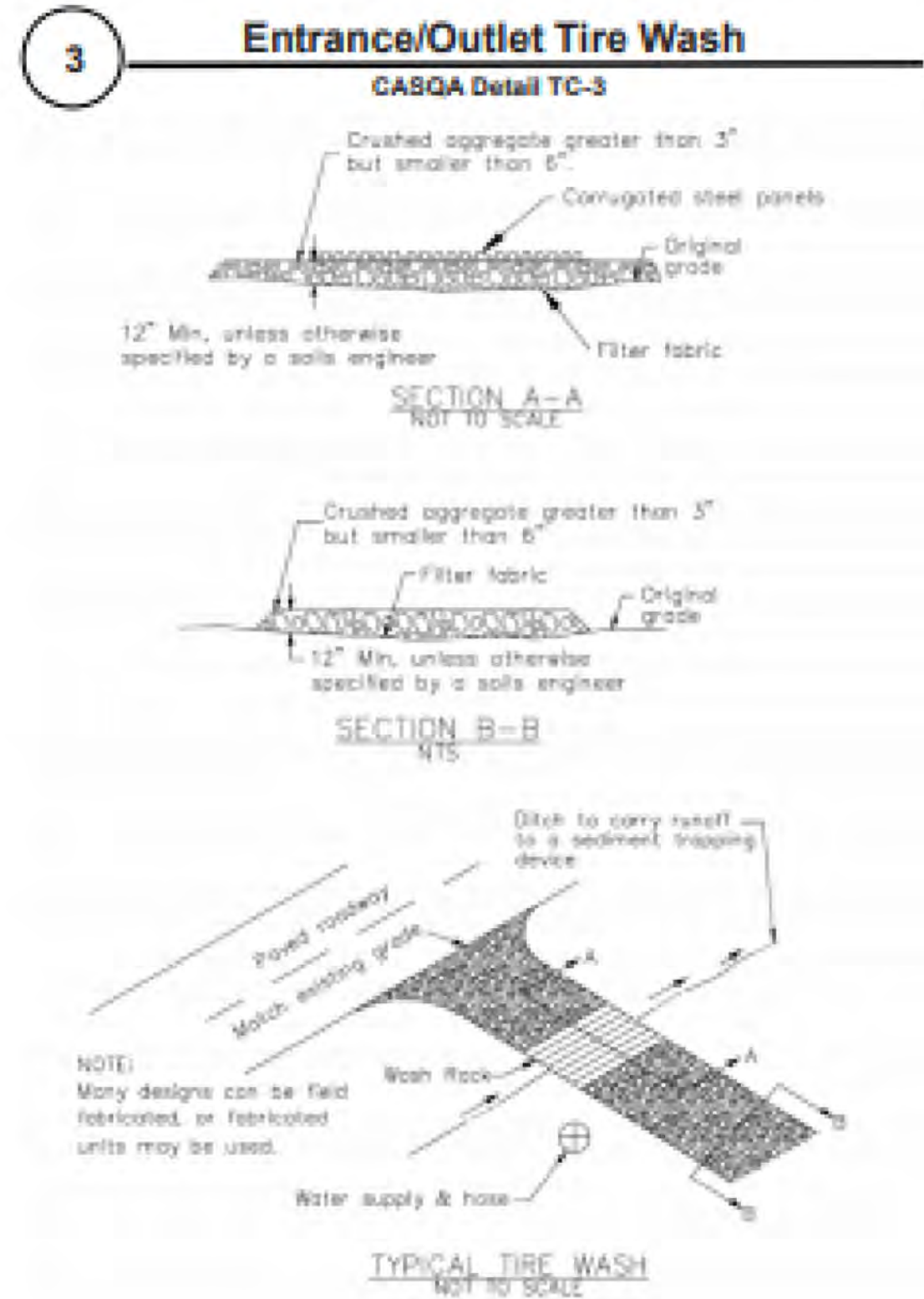
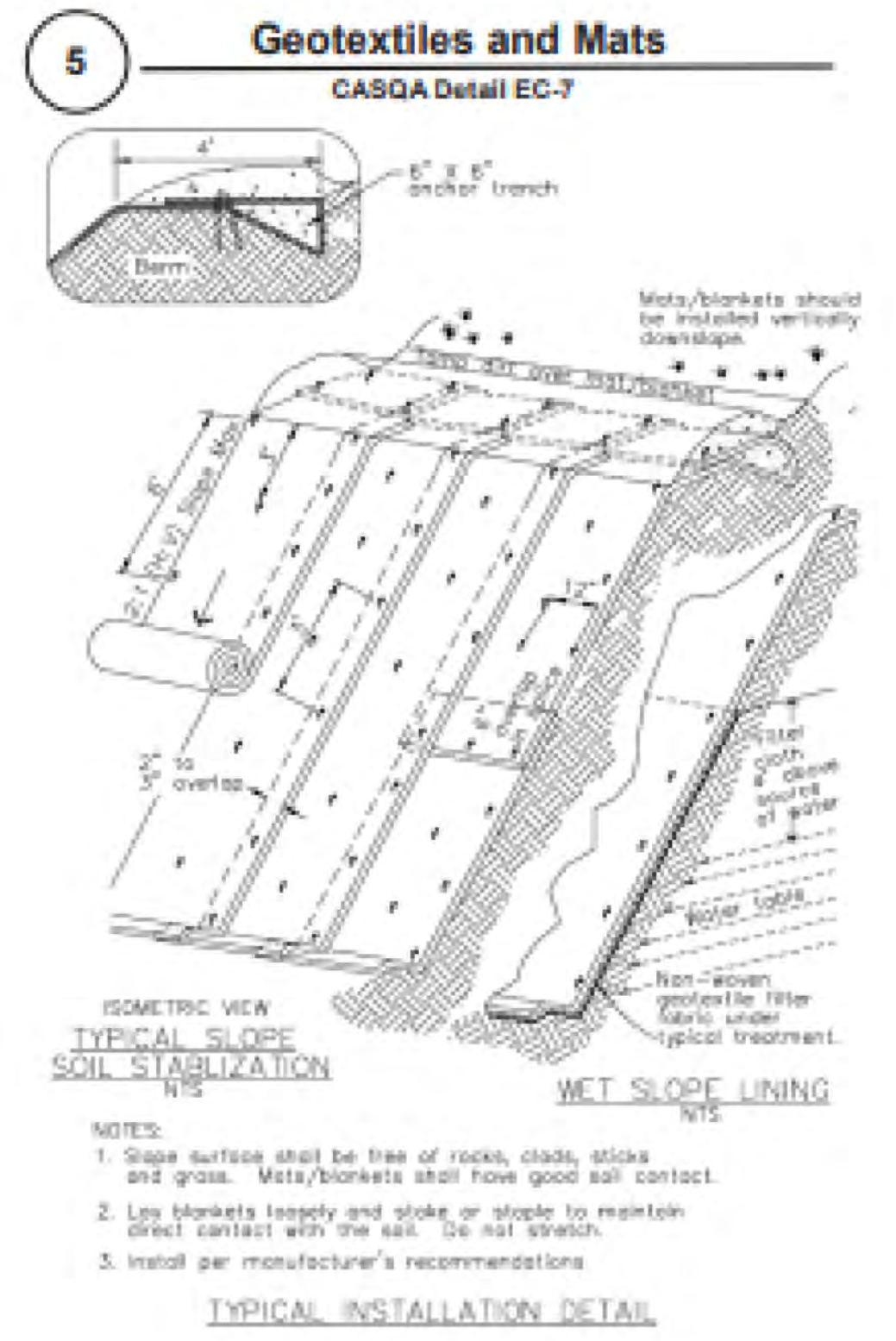
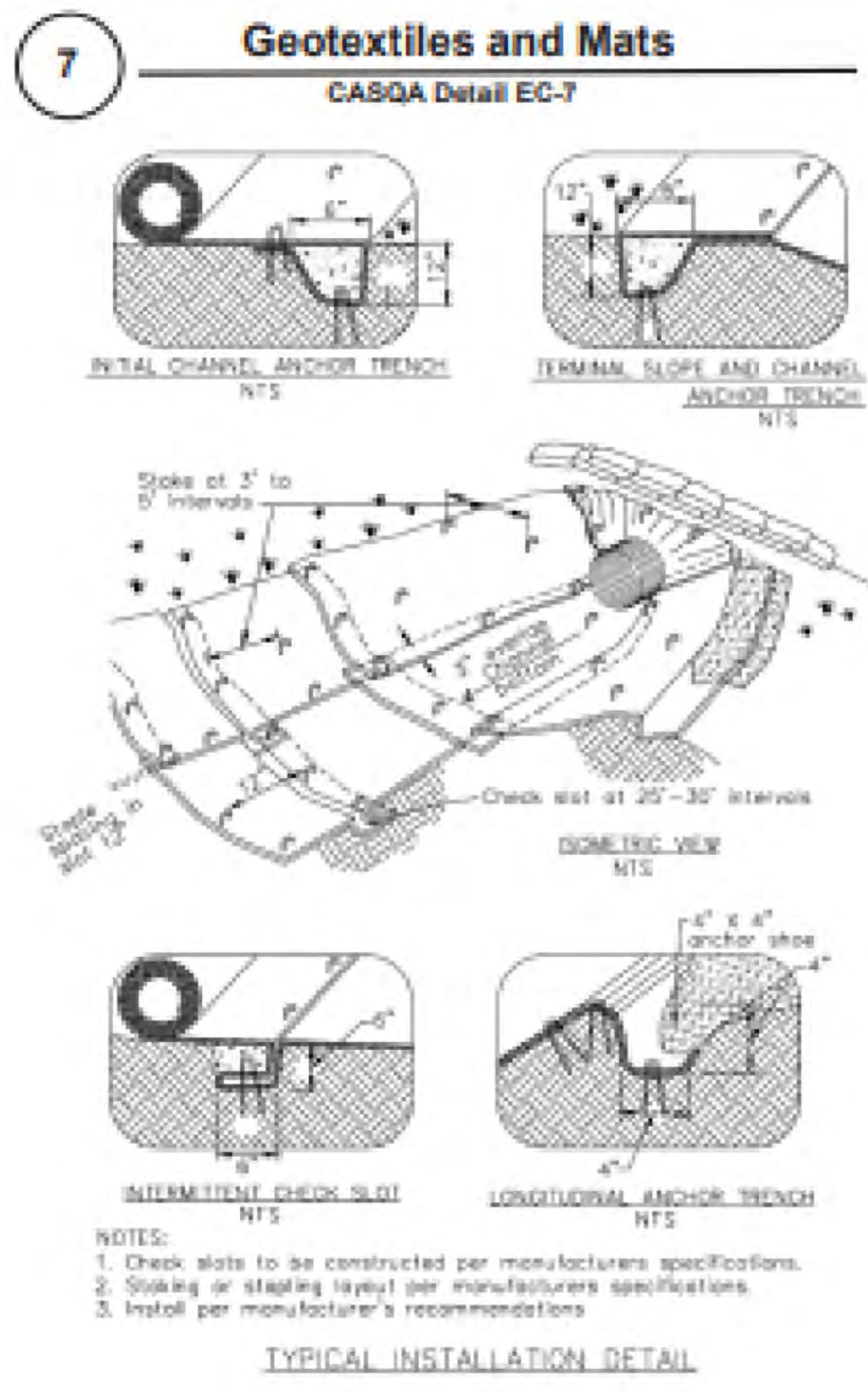
COUNTY BMP NOTES

SCALE

1"=30'

SHEET NUMBER

Project Information



Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003. Available from www.cabmphandbooks.com.

Best Management Practices and Erosion Control Details Sheet 2  
 County of Santa Clara



BMP-2

C-7.2





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SHEET TITLE

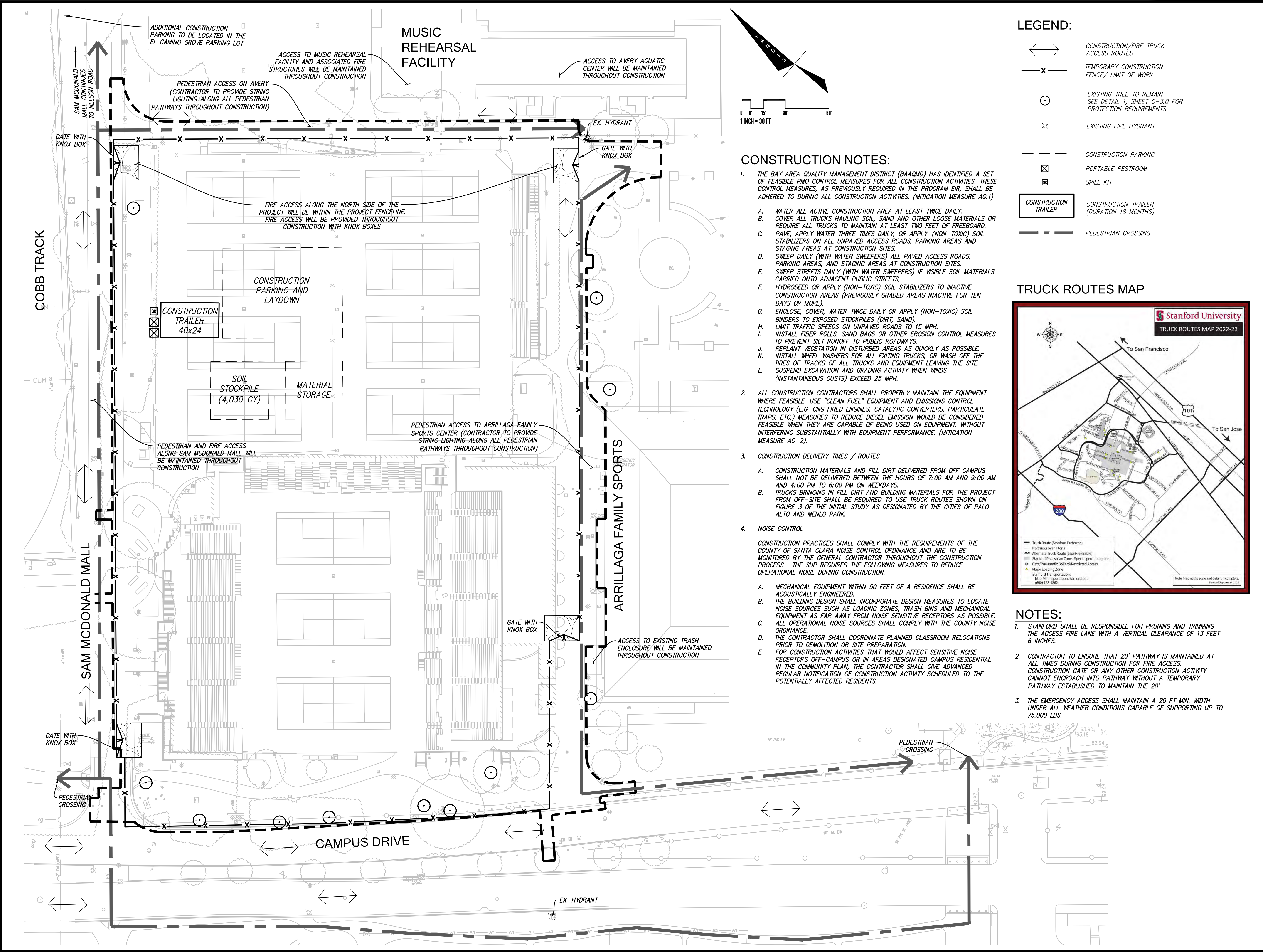
CONSTRUCTION SITE LOGISTICS  
AND SAFETY PLAN

SCALE

1"=30'

SHEET NUMBER

C-8.0



**LEGEND:**

- CONSTRUCTION/FIRE TRUCK ACCESS ROUTES
- TEMPORARY CONSTRUCTION FENCE/ LIMIT OF WORK
- EXISTING TREE TO REMAIN. SEE DETAIL 1, SHEET C-3.0 FOR PROTECTION REQUIREMENTS
- EXISTING FIRE HYDRANT
- CONSTRUCTION PARKING
- PORTABLE RESTROOM
- SPILL KIT
- CONSTRUCTION TRAILER (DURATION 18 MONTHS)
- PEDESTRIAN CROSSING

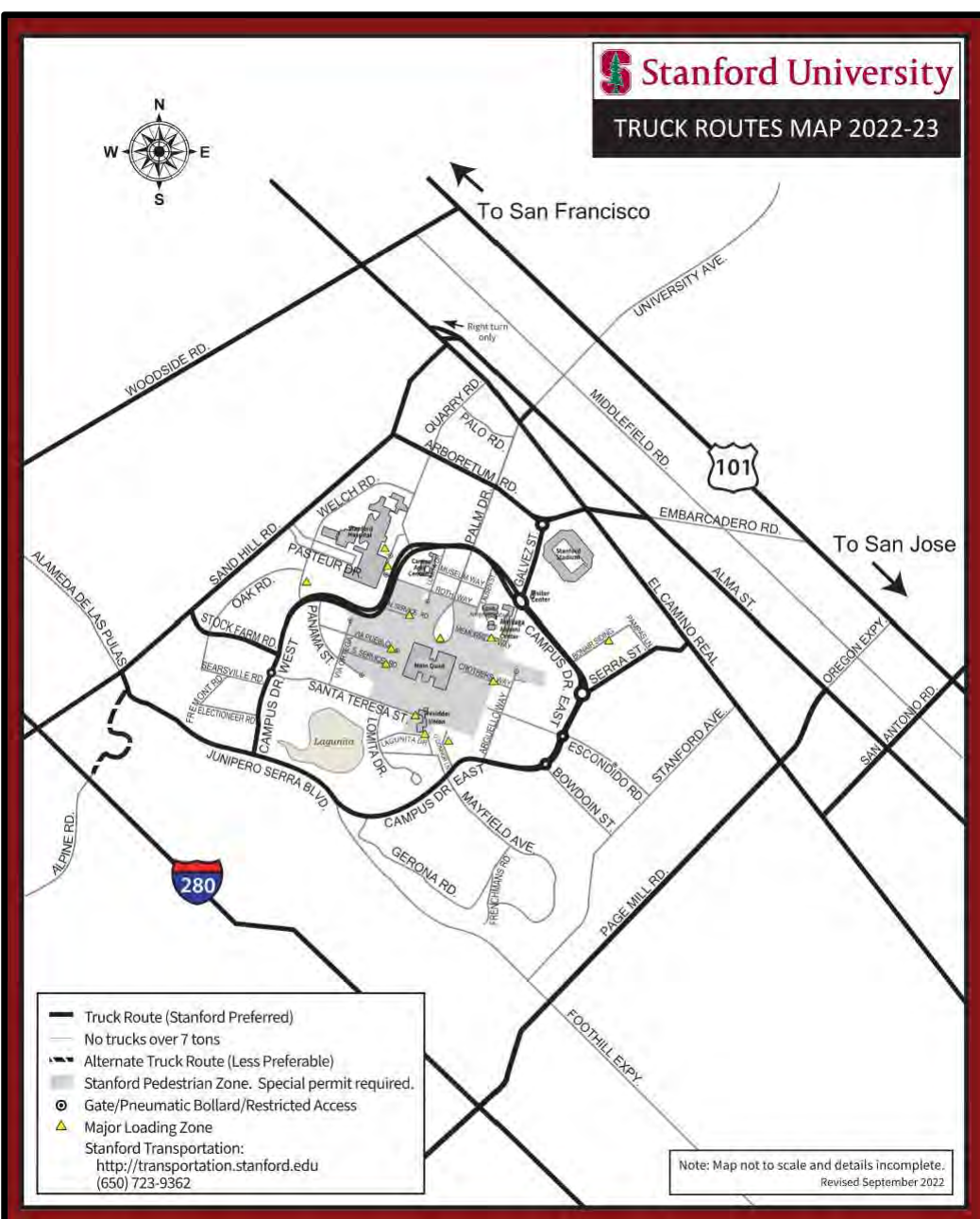
**CONSTRUCTION NOTES:**

- THE BAY AREA QUALITY MANAGEMENT DISTRICT (BAAQMD) HAS IDENTIFIED A SET OF FEASIBLE PMO CONTROL MEASURES FOR ALL CONSTRUCTION ACTIVITIES. THESE CONTROL MEASURES, AS PREVIOUSLY REQUIRED IN THE PROGRAM EIR, SHALL BE ADHERED TO DURING ALL CONSTRUCTION ACTIVITIES. (MITIGATION MEASURE AQ-1)
  - WATER ALL ACTIVE CONSTRUCTION AREA AT LEAST TWICE DAILY. COVER ALL TRUCKS HAULING SOIL, SAND AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD. PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES.
  - SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS, AND STAGING AREAS AT CONSTRUCTION SITES.
  - SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIALS CARRIED ONTO ADJACENT PUBLIC STREETS.
  - HYDROSEED OR APPLY (NON-TOXIC) SOIL STABILIZERS TO INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS INACTIVE FOR TEN DAYS OR MORE).
  - ENCLOSE, COVER, WATER TWICE DAILY OR APPLY (NON-TOXIC) SOIL BINDERS TO EXPOSED STOCKPILES (DIRT, SAND).
  - LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MPH.
  - INSTALL FIBER ROLLS, SAND BAGS OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS.
  - REPLANT VEGETATION IN DISTURBED AREAS AS QUICKLY AS POSSIBLE.
  - INSTALL WHEEL WASHERS FOR ALL EXITING TRUCKS, OR WASH OFF THE TIRES OF TRACKS OF ALL TRUCKS AND EQUIPMENT LEAVING THE SITE.
  - SUSPEND EXCAVATION AND GRADING ACTIVITY WHEN WINDS (INSTANTANEOUS GUSTS) EXCEED 25 MPH.
- ALL CONSTRUCTION CONTRACTORS SHALL PROPERLY MAINTAIN THE EQUIPMENT WHERE FEASIBLE. USE "CLEAN FUEL" EQUIPMENT AND EMISSIONS CONTROL TECHNOLOGY (E.G. CNG FIRED ENGINES, CATALYTIC CONVERTERS, PARTICULATE TRAPS, ETC.) MEASURES TO REDUCE DIESEL EMISSION WOULD BE CONSIDERED FEASIBLE WHEN THEY ARE CAPABLE OF BEING USED ON EQUIPMENT, WITHOUT INTERFERING SUBSTANTIALLY WITH EQUIPMENT PERFORMANCE. (MITIGATION MEASURE AQ-2).
- CONSTRUCTION DELIVERY TIMES / ROUTES
  - CONSTRUCTION MATERIALS AND FILL DIRT DELIVERED FROM OFF CAMPUS SHALL NOT BE DELIVERED BETWEEN THE HOURS OF 7:00 AM AND 9:00 AM AND 4:00 PM TO 6:00 PM ON WEEKDAYS.
  - TRUCKS BRINGING IN FILL DIRT AND BUILDING MATERIALS FOR THE PROJECT FROM OFF-SITE SHALL BE REQUIRED TO USE TRUCK ROUTES SHOWN ON FIGURE 3 OF THE INITIAL STUDY AS DESIGNATED BY THE CITIES OF PALO ALTO AND MENLO PARK.
- NOISE CONTROL
 

CONSTRUCTION PRACTICES SHALL COMPLY WITH THE REQUIREMENTS OF THE COUNTY OF SANTA CLARA NOISE CONTROL ORDINANCE AND ARE TO BE MONITORED BY THE GENERAL CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. THE SUP REQUIRES THE FOLLOWING MEASURES TO REDUCE OPERATIONAL NOISE DURING CONSTRUCTION.

  - MECHANICAL EQUIPMENT WITHIN 50 FEET OF A RESIDENCE SHALL BE ACOUSTICALLY ENGINEERED.
  - THE BUILDING DESIGN SHALL INCORPORATE DESIGN MEASURES TO LOCATE NOISE SOURCES SUCH AS LOADING ZONES, TRASH BINS AND MECHANICAL EQUIPMENT AS FAR AWAY FROM NOISE SENSITIVE RECEPTORS AS POSSIBLE.
  - ALL OPERATIONAL NOISE SOURCES SHALL COMPLY WITH THE COUNTY NOISE ORDINANCE.
  - THE CONTRACTOR SHALL COORDINATE PLANNED CLASSROOM RELOCATIONS PRIOR TO DEMOLITION OR SITE PREPARATION.
  - FOR CONSTRUCTION ACTIVITIES THAT WOULD AFFECT SENSITIVE NOISE RECEPTORS OFF-CAMPUS OR IN AREAS DESIGNATED CAMPUS RESIDENTIAL IN THE COMMUNITY PLAN, THE CONTRACTOR SHALL GIVE ADVANCED REGULAR NOTIFICATION OF CONSTRUCTION ACTIVITY SCHEDULED TO THE POTENTIALLY AFFECTED RESIDENTS.

**TRUCK ROUTES MAP**



**NOTES:**

- STANFORD SHALL BE RESPONSIBLE FOR PRUNING AND TRIMMING THE ACCESS FIRE LANE WITH A VERTICAL CLEARANCE OF 13 FEET 6 INCHES.
- CONTRACTOR TO ENSURE THAT 20' PATHWAY IS MAINTAINED AT ALL TIMES DURING CONSTRUCTION FOR FIRE ACCESS. CONSTRUCTION GATE OR ANY OTHER CONSTRUCTION ACTIVITY CANNOT ENCROUGH INTO PATHWAY WITHOUT A TEMPORARY PATHWAY ESTABLISHED TO MAINTAIN THE 20'.
- THE EMERGENCY ACCESS SHALL MAINTAIN A 20 FT MIN. WIDTH UNDER ALL WEATHER CONDITIONS CAPABLE OF SUPPORTING UP TO 75,000 LBS.

ALL DRAWINGS AND WRITTEN MATERIAL APPEARING HEREIN CONSTITUTE ORIGINAL AND UNPUBLISHED WORK OF THE ARCHITECT AND MAY NOT BE DUPLICATED, USED OR DISCLOSED WITHOUT WRITTEN CONSENT OF THE ARCHITECT



Project Name: Varsity Tennis Center  
 Project Address: 275 Sam McDonald Mall,  
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NO.	DATE	DESCRIPTION
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PROJECT NUMBER 17007

SHEET TITLE  
**FIRE ACCESS**

SCALE

1"=30'

SHEET NUMBER

**C-9.0**

**EXISTING CONDITION, NOT BEING MODIFIED BY THIS PROJECT**

**EXISTING FIRE STRUCTURES TO REMAIN ACCESSIBLE THROUGHOUT CONSTRUCTION**

**PROPOSED BUILDING**  
 BUILDING CORNER DOES NOT ALLOW TO PROVIDE 30 FEET INSIDER RADIUS. A TRUCK TURNING MOVEMENT HAS BEEN PROVIDED TO SHOW A FIRE DEPARTMENT APPARATUS CAN MAKE THE TURN AT THIS CORNER.

**SCCFD-Truck 1**

**EX. HYDRANT**

**PROPOSED HYDRANT**

**PROPOSED FDC**

**4 REMOVABLE BOLLARDS**

**ARRILL/ SPORTS CEN**

**SAM MCDONALD MALL**

**CAMPUS DRIVE**

**4 PNEUMATIC BOLLARDS**

**EXISTING R25'**

**Stanford Environmental Health & Safety** FIRE MARSHAL'S OFFICE

1/24/2023

From Joe Miller (SLP/AC)

To Sandy Louie (Project Manager)

Re: Hydrant Flow Test - Teah / Varsity Tennis (09-340 / 09-380)

Hydrant Flow Test	
Location	Sam Mc Donald Mall
Hydrant ID	2-45894
Test Date/Time	1/20/23
Static Pressure	98 psi
Residual Pressure	88 psi
Flow	1,367 gpm @ 150 psi
Calculated Fire Flow at 20 psi	4,612 gpm @ 150 gpm

Fire Marshal's Office  
 480 Oak Rd, Stanford, CA 94305 | 650.723.0440 | 650.725.3408

**LEGEND:**

- EXISTING FIRE HYDRANT TO REMAIN
- PROPOSED FIRE HYDRANT
- PROPOSED FIRE DEPARTMENT CONNECTION
- FIRE ACCESS LANE
- BUILDING WITHIN 150 FEET OF FIRE ACCESS LANE PER 2016 CFC SECTION 503.1.1
- 150' HOSE REACH

**NOTES**

- STANFORD SHALL BE RESPONSIBLE FOR PRUNING AND TRIMMING THE ACCESS FIRE LANE WITH A VERTICAL CLEARANCE OF 13 FEET 6 INCHES.
- CONTRACTOR TO ENSURE THAT 20' PATHWAY IS MAINTAINED AT ALL TIMES DURING CONSTRUCTION FOR FIRE ACCESS. CONSTRUCTION GATE OR ANY OTHER CONSTRUCTION ACTIVITY CANNOT ENCROACH INTO PATHWAY WITHOUT A TEMPORARY PATHWAY ESTABLISHED TO MAINTAIN THE 20'.
- THE EMERGENCY ACCESS SHALL MAINTAIN A 20 FT MIN. WIDTH UNDER ALL WEATHER CONDITIONS CAPABLE OF SUPPORTING UP TO 75,000 LBS.

**FIRE ANALYSIS NOTES**

BUILDING TYPE: TYPE IIB (48,615 SQ. FT.)

PER CFC ANNEX'S B & C  
 FIRE FLOW REQUIRED: 4,750 GPM  
 FLOW DURATION: 4 HOURS

NO. HYDRANTS REQUIRED: 5 @ AVG SPACING = 300'  
 NO. EXISTING HYDRANTS: 1  
 NO. PROPOSED HYDRANT: 4

MAX DISTANCE FROM ANY POINT ON STREET OR ROAD FRONTAGE TO A HYDRANT: 210'

**50% FIRE FLOW REDUCTION FOR FULLY SPRINKLED BUILDING**

FIRE FLOW REQUIRED: 2,375GPM  
 FLOW DURATION: 2 HRS

**FIRE HYDRANT NOTES**

ALL FIRE HYDRANTS SHALL BE WET BARREL STANDARD STEAMER TYPE WITH 1-4" (114.3 MM) AND 2-2 1/2" (63.5 MM) OUTLETS.

- "FLOW DURATION" MAY IMPACT NUMBER OF REQUIRED FIRE HYDRANTS.
- FIRE HYDRANTS AND FIRE APPLIANCES (FIRE DEPARTMENT CONNECTIONS AND POST INDICATOR VALVES) SHALL BE CLEARLY ACCESSIBLE AND FREE FROM OBSTRUCTION.

**FIRE PROTECTION NOTES**

- FIRE APPARATUS ROADWAYS, INCLUDING PUBLIC OR PRIVATE STREETS OR ROADS USED FOR VEHICLE ACCESS SHALL BE INSTALLED AND IN SERVICE PRIOR TO CONSTRUCTION.
- FIRE APPARATUS ROADWAYS, INCLUDING PUBLIC AND PRIVATE STREETS AND IN SOME CASES DRIVEWAYS USED FOR VEHICLE ACCESS, SHALL BE CAPABLE OF SUPPORTING THE IMPOSED WEIGHT OF A 75,000 POUND (34,050 KG) FIRE APPARATUS AND SHALL BE PROVIDED WITH AN ALL WEATHER DRIVING SURFACE. ONLY PAVED OR CONCRETE SURFACES ARE CONSIDERED TO BE ALL WEATHER DRIVING SURFACES. CFC 2016, APPENDIX D.
- FIRE PROTECTION WATER SERVING ALL HYDRANTS SHALL BE PROVIDED AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON SITE.
- PRIOR TO COMBUSTIBLE MATERIAL ARRIVING ON THE SITE, CONTACT THE MENLO PARK FIRE PROTECTION DISTRICT TO SCHEDULE AN INSPECTION OF ROADWAYS AND FIRE HYDRANTS. CFC 2016.
- FIRE HYDRANTS AND FIRE APPLIANCES (FIRE DEPARTMENT CONNECTIONS AND POST INDICATOR VALVES) SHALL BE CLEARLY ACCESSIBLE AND FREE FROM OBSTRUCTION.
- SIGNAGE FOR FIRE DEPARTMENT CONNECTION (FDC), POST-INDICATOR VALVE (PIV), BACKFLOW PREVENTER DEVICE SHALL HAVE PERMANENT, IMBEDDED SIGN ATTACHED WHICH STATES ADDRESS SERVED AND SHALL TO BE SECURED TO VALVE OR CONNECTION.

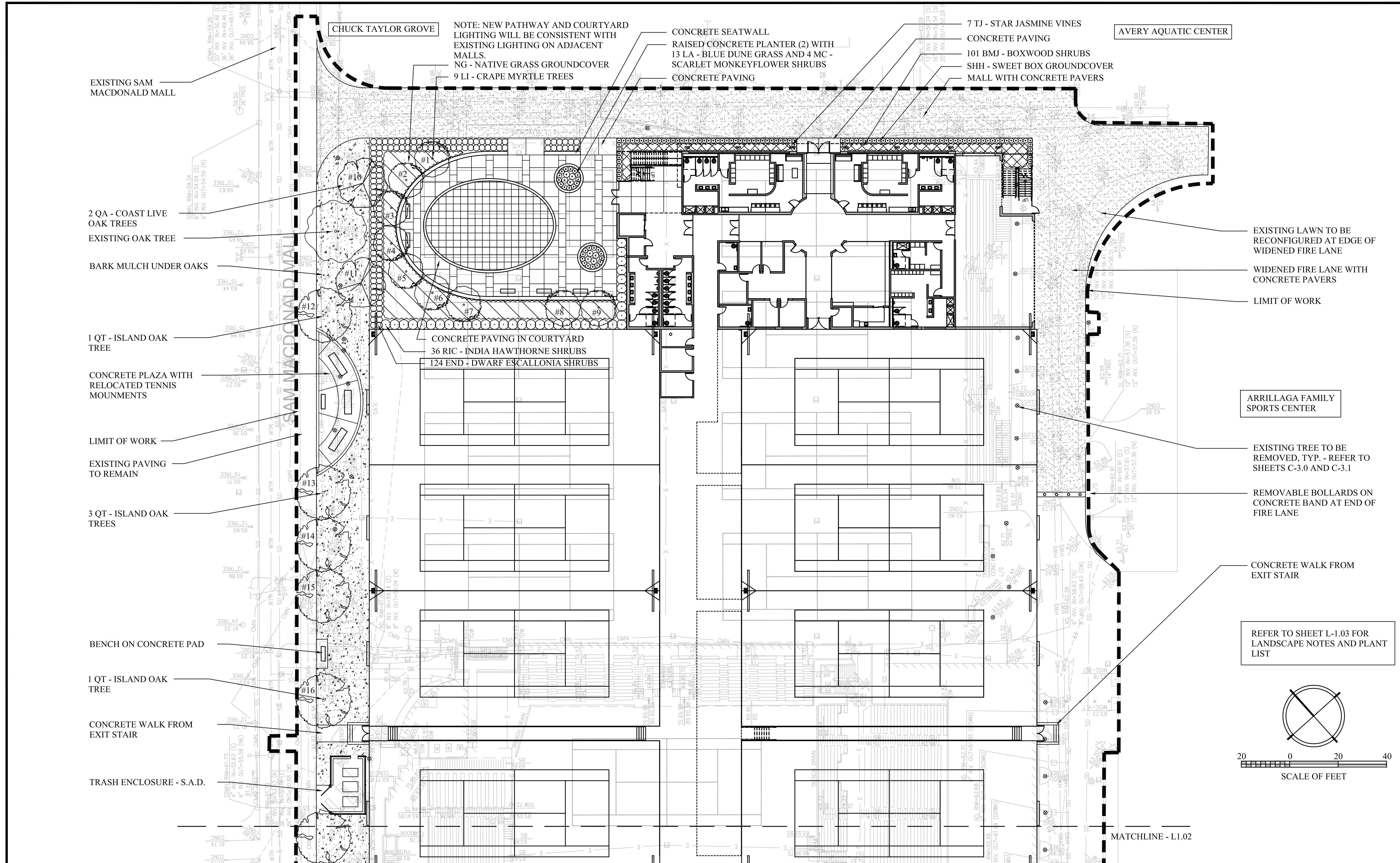
**FIRE ACCESS MAP**

**Legend**

- Primary Access
- Secondary Access

EXISTING SECONDARY FIRE ACCESS TO BE ABANDONED AS PART OF THIS PROJECT. FIRE ACCESS WILL BE PROVIDED SO THAT ALL WALLS OF BUILDING ARE WITHIN 150 FT OF A FIRE LANE.



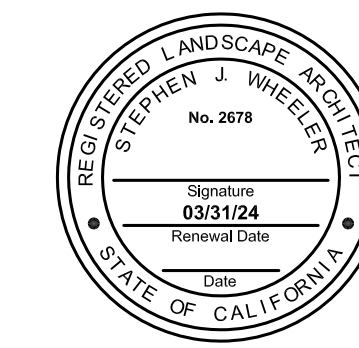


VARSITY TENNIS

STANFORD UNIVERSITY

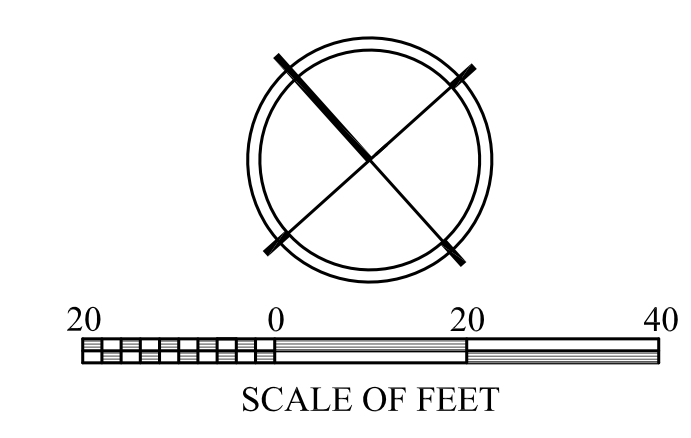


Stephen Wheeler  
Landscape Architects  
99 Mississippi Street  
Second Floor  
San Francisco, CA 94107  
T: 415-252-7075



ISSUES AND REVISIONS	
NO.	DESCRIPTION
01.27.2023	ASA SUBMITTAL
05.03.2023	ASA RESUBMITTAL #1

- EXISTING LAWN TO BE RECONFIGURED AT EDGE OF WIDENED FIRE LANE
- WIDENED FIRE LANE WITH CONCRETE PAVERS
- LIMIT OF WORK
- ARRILLAGA FAMILY SPORTS CENTER
- EXISTING TREE TO BE REMOVED, TYP. - REFER TO SHEETS C-3.0 AND C-3.1
- REMOVABLE BOLLARDS ON CONCRETE BAND AT END OF FIRE LANE
- CONCRETE WALK FROM EXIT STAIR
- REFER TO SHEET L-1.03 FOR LANDSCAPE NOTES AND PLANT LIST



PROJECT NUMBER

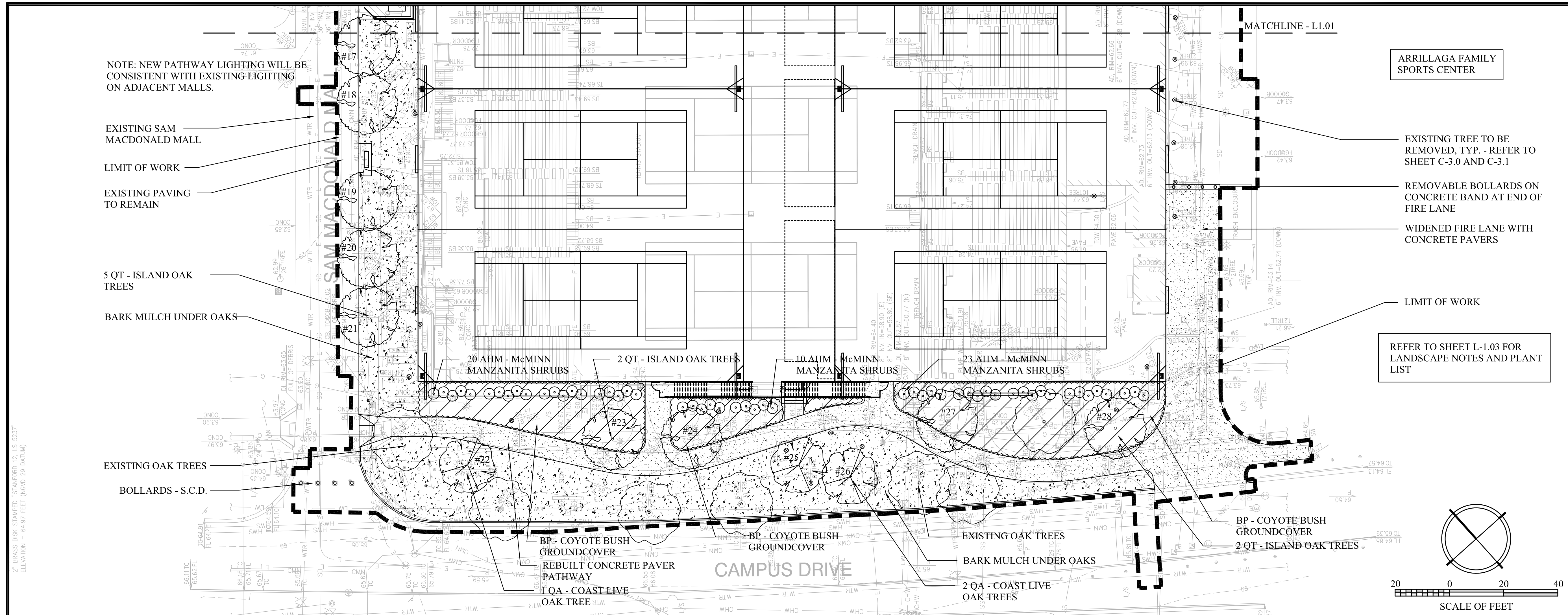
SHEET TITLE  
LANDSCAPE PLAN

SCALE  
1" = 20'-0"

SHEET NUMBER

L-1.01



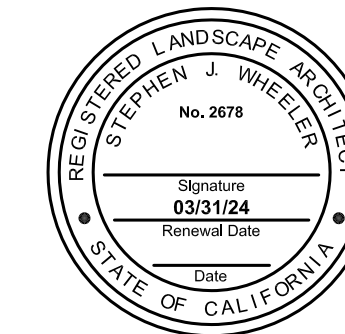


VARSITY TENNIS

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	05.03.2023	ASA RESUBMITTAL #1

PROJECT NUMBER

SHEET TITLE  
LANDSCAPE PLAN

SCALE  
1" = 20'-0"

SHEET NUMBER

L-1.02



LANDSCAPE DESIGN CONCEPT

THE LANDSCAPE DESIGN FOR THE PROJECT CREATES A COURTYARD FOR THE NEW VARSITY TENNIS STADIUM AND PROVIDES STREETSCAPE CONNECTIONS FROM THE PROJECT SITE TO THE SURROUNDING ATHLETIC FACILITIES. THE COURTYARD IS ENCLOSED WITH A CONCRETE SEATWALL AND IS PAVED WITH CONCRETE. THE COURTYARD IS HIGHLIGHTED BY A ROW OF FLOWERING CRAPE MYRTLE TREES THAT ECHO THE SHAPE OF THE WALL. NEW BENCHES, LOCATED UNDER THE TREES, WILL PROVIDE SEATING FOR BOTH CASUAL USE AND FOR TOURNAMENT FANS. ORNAMENTAL PLANTING WITHIN THE COURTYARD AND AT THE BUILDING WILL PROVIDE SMALL-SCALE INTEREST FOR THE SPACE. THE PEDESTRIAN MALLS THAT EDGE THE SITE WILL BE PAVED WITH COLORED CONCRETE PAVERS AND MACDONALD MALL WILL BE PLANTED WITH ISLAND LIVE OAK TREES TO CONNECT TO THE EXISTING STREETSCAPE FABRIC. THE EXISTING LANDSCAPE AND ALONG CAMPUS DRIVE WILL BE RENOVATED WITH NEW TREES, SHRUBS AND GROUND COVER AND A REBUILT CONCRETE PAVEMENT PATHWAY. PLANT MATERIALS HAVE BEEN SELECTED TO BE CLIMATE-ADAPTED, LOW WATER USE AND TO COMPLEMENT ADJACENT PLANTS AND THE STANFORD PLANT MATERIALS PALETTE.

TREE PRESERVATION NOTES

1. REFER TO THE TREE DISPOSITION TABLE ON SHEETS C-3.0 AND C-3.1 AND TO THE ARBORIST REPORT PREPARED BY DAVID BABBY, CONSULTING ARBORIST, FOR TREES TO BE SAVED AND REMOVED.
2. REFER TO TREE PROTECTION AND REMOVAL NOTES ON SHEET C-3.0 AND C-3.1.

PLANTING NOTES

1. PROJECT SHALL COMPLY WITH SANTA CLARA COUNTY AND STANFORD UNIVERSITY PLANTING REQUIREMENTS, INCLUDING:
  - 1.1 SOIL SHALL BE CONDITIONED AND AMENDED AS PER THE RESULTS OF A SOILS TEST.
  - 1.2 ALL SHRUB AND GROUND COVER AREAS SHALL BE MULCHED WITH 3" DEPTH OF BARK OR GRAVEL MULCH.
2. REFER TO CIVIL DRAWINGS FOR SITE DEMOLITION, PAVING, GRADING AND DRAINAGE AND STORMWATER MANAGEMENT.

IRRIGATION NOTES

1. THE IRRIGATION SYSTEM SHALL BE DESIGNED BY A CERTIFIED IRRIGATION DESIGNER TO MEET SANTA CLARA COUNTY AND STANFORD UNIVERSITY REQUIREMENTS AND MAWA STANDARDS.
2. TREES WILL BE IRRIGATED WITH 2 PRESSURE COMPENSATING BUBBLER PER TREE.
3. SHRUBS WILL BE IRRIGATED WITH 1 PRESSURE COMPENSATING BUBBLER PER SHRUB.
4. GROUND COVER AREAS WILL BE WATERED WITH SUBSURFACE DRIPLINE.
5. NATIVE GRASS AREAS WILL BE WATERED WITH OVERHEAD SPRAY HEADS.
6. DEPENDING ON SITE CONDITIONS AND AVAILABLE STATIONS, THE IRRIGATION SYSTEM WILL BE EITHER CONNECTED TO AN EXISTING CONTROLLER OR FURNISHED WITH A NEW CONTROLLER WITH A FLOW MONITOR, RAIN SENSOR AND SURGE PROTECTION.

HYDROZONES BASED UPON WCOLS PLANT WATER USAGE

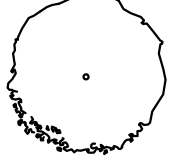


AREA	WCOLS WATER USAGE	
+/- 8,290 SF	LOW - 85%	TREES, SHRUBS AND GROUND COVER
+/- 1,493 SF	MEDIUM - 15%	SHRUBS
+/- 9,783 SF	TOTAL AREA	



PLANT LIST

KEY QTY SYMBOL BOTANICAL NAME COMMON NAME SIZE SPACING WATER USAGE

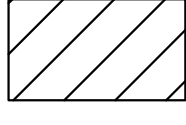
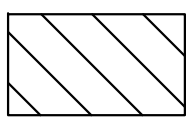

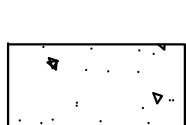
TREES

	9	LI	LAGERSTROEMIA INDICA	CRAPE MYRTLE	36" BOX		L
	5	QA	QUERCUS AGRIFOLIA	COAST LIVE OAK	36" BOX		VL
	14	QT	QUERCUS TOMENTELLA	ISLAND LIVE OAK	36" BOX		L

SHRUBS, GRASSES AND VINES

	53	AHM	ARCTOSTAPHYLOS 'HOWARD McMINN'	McMINN MANZANITA	5 GAL	48" O.C.	L
	101	BMJ	BUXUS M. JAPONICA 'GREEN BEAUTY'	GREEN BEAUTY BOXWOOD	5 GAL	24" O.C.	M
	124	END	ESCALLONIA 'NEWPORT DWARF'	DWARF ESCALLONIA	5 GAL	30" O.C.	M
	26	LA	LEYMUS ARENARIS 'BLUE DUNE'	BLUR DUNE WILD RYE	1 GAL	24" O.C.	L
	8	MA	MIMULUS CARDINALIS	SCARLET MONKEYFLOWER	5 GAL	30" O.C.	M
	36	RIC	RHAPHIOLEPIS INDICA 'CLARA'	WHITE INDIAN HAWTHORN	5 GAL	30" O.C.	L
	7	TJ	TRACHELOSPERMUM JASMINODIES	STAR JASMINE STAKED VINE	5 GAL		M

GROUND COVER

	-	BP	BACCHARIS PILULARIS 'PIGEON POINT'	DWARF COYOTE BUSH	1 GAL	48" O.C.	L
	-	NG	NATIVE NO MOW GRASS GROUND COVER		SOD		L
	-	SHH	SARCOCOCCA HOOKERIANA HUMILIS	SWEET BOX	1 GAL	18" O.C.	L
	-		BARK MULCH				

TREE TABLE

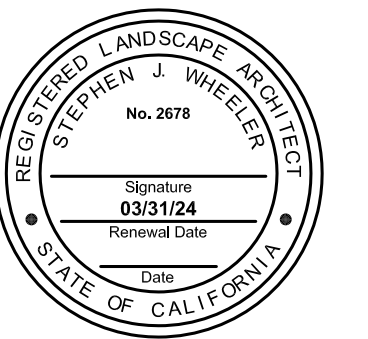
TREE NUMBER	COMMON NAME	DBH (INCHES)*
1, 2, 3, 4, 5, 6, 7, 8, 9	CRAPE MYRTLE	2-1/2" - 3-1/2"
10, 11	COAST LIVE OAK	2-1/2" - 3-1/2"
12, 13, 14, 15, 16, 17, 18, 19, 20, 21	ISLAND LIVE OAK	2-1/2" - 3-1/2"
22	COAST LIVE OAK	2-1/2" - 3-1/2"
23, 24	ISLAND LIVE OAK	2-1/2" - 3-1/2"
25, 26	COAST LIVE OAK	2-1/2" - 3-1/2"
27, 28	ISLAND LIVE OAK	2-1/2" - 3-1/2"

\* ANSI NURSERY STOCK STANDARD CALIPER AT TIME OF PLANTING FOR A 36" BOX TREE OF THE SPECIES.

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PROJECT NUMBER

SHEET TITLE  
**LANDSCAPE NOTES**

SCALE

SHEET NUMBER

**L-1.03**