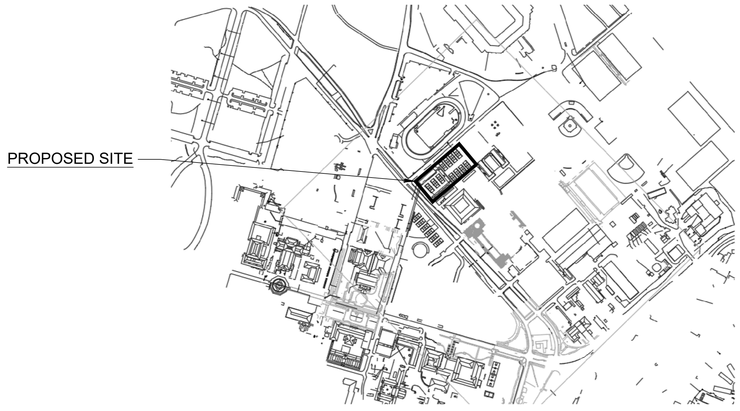
STANFORD UNIVERSITY
VARSITY TENNIS CENTER
PROJECT 5698

SUBMITTAL DATE: APPROVAL DATE:

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

(09-345), 275 SAM MCDONALD MALL



VICINITY MAP

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

DRAWING INDEX

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

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

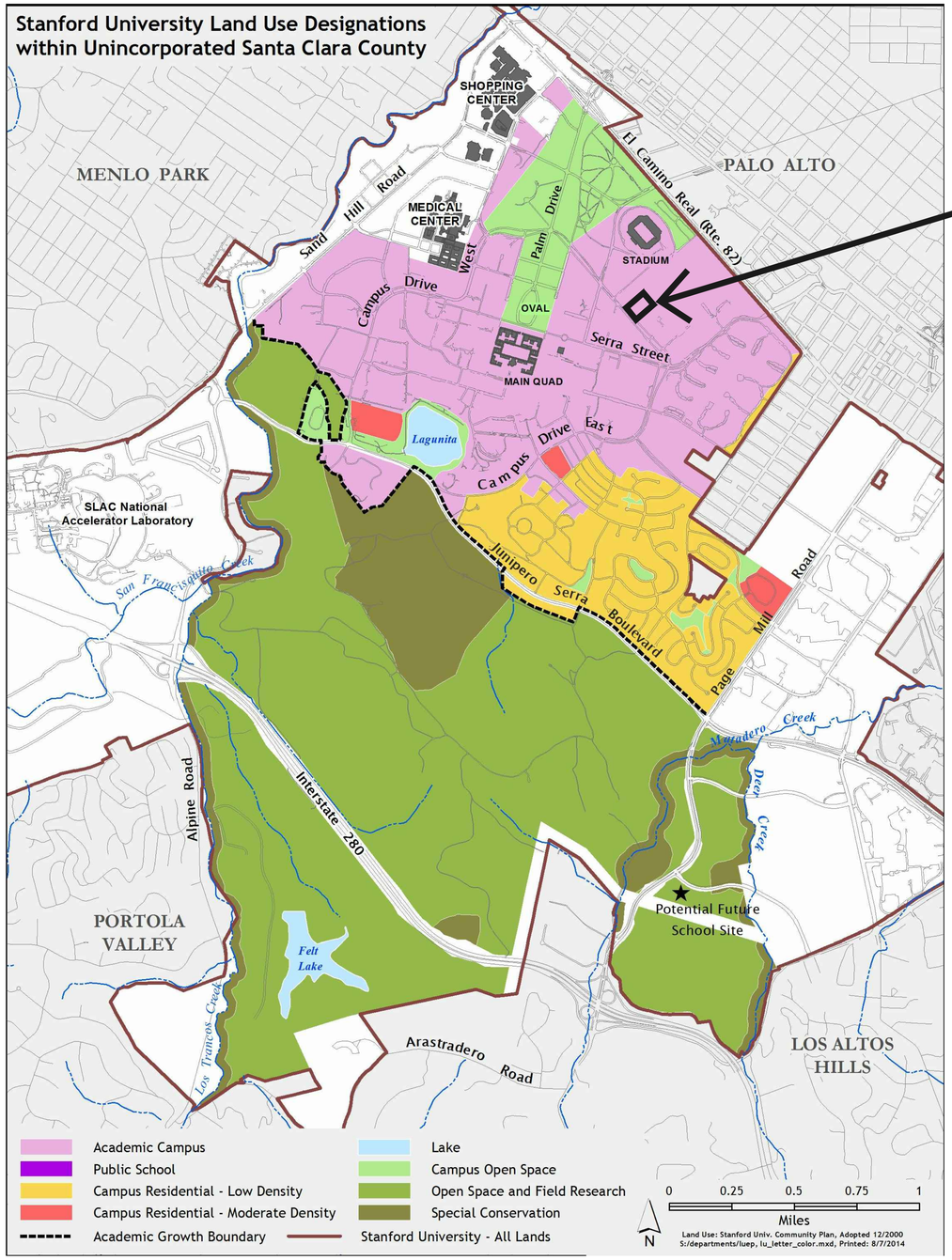
DATE: 12/10/21

SCALE: N/A

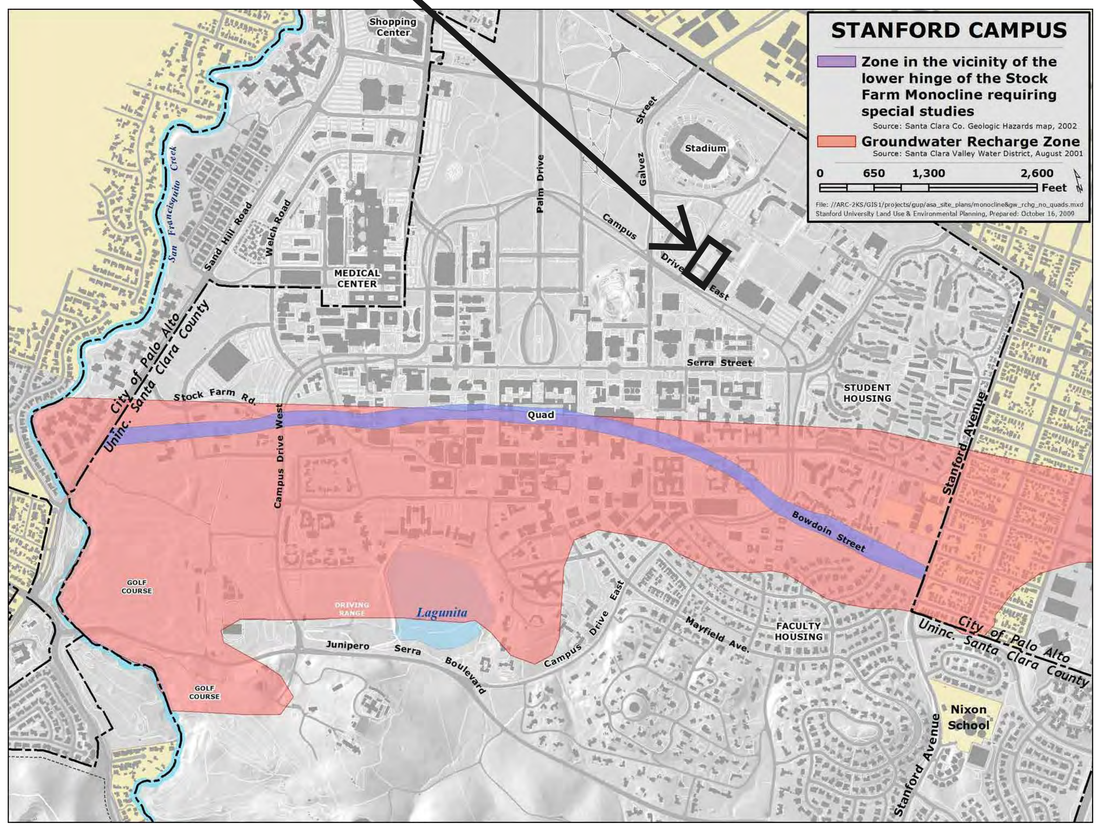
PL0.0

File: S:\220148\4_ENGINEERING\2_PLAN SETS\3_SHEET SETS\ONSITE\PL0.0 Title Sheet.dwg Date:May 03, 2023 - 11:34am, ahrpinkerch

GUP INFORMATION MAP



PROPOSED SITE



REVISION

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

GUP INFORMATION MAP

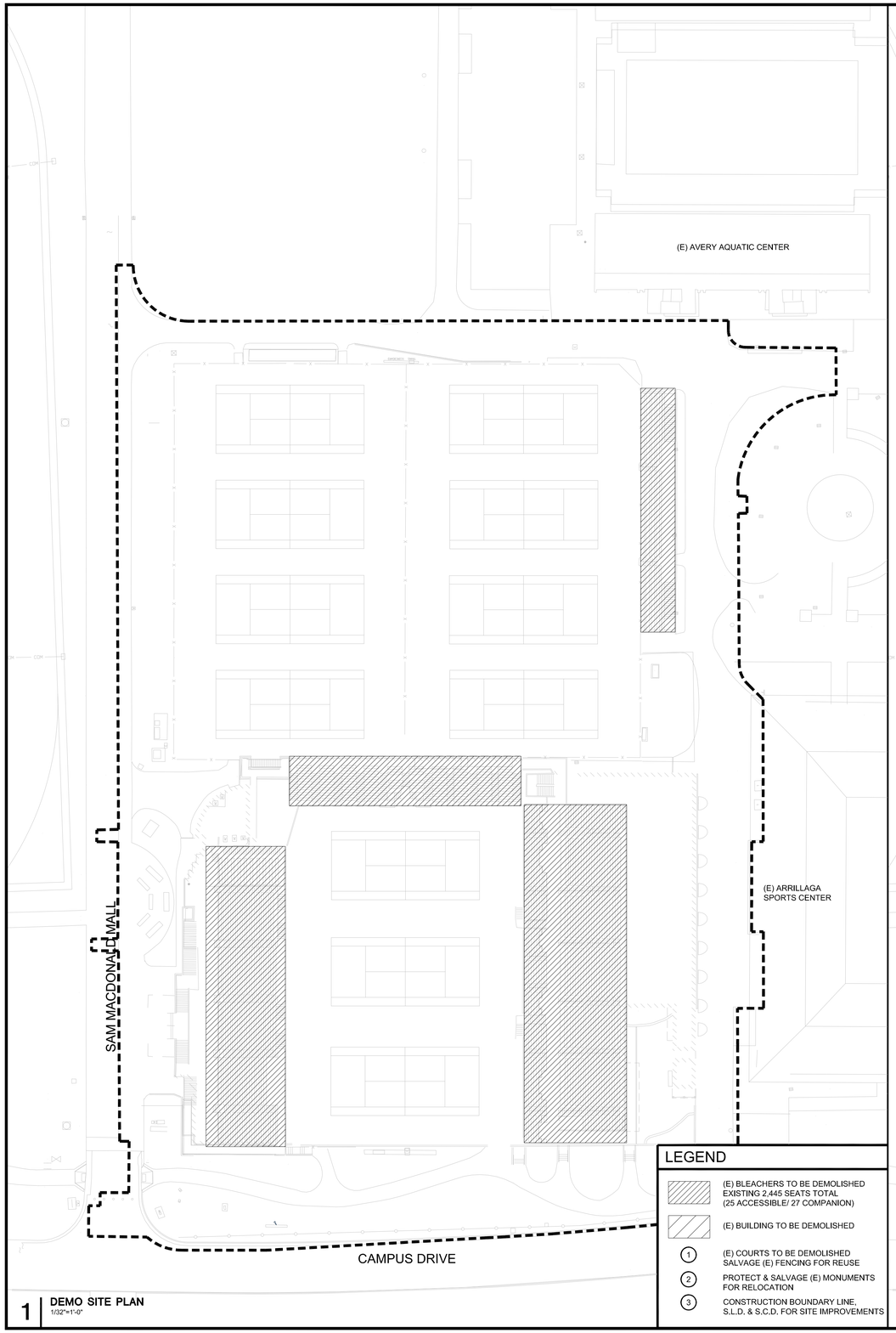
STANFORD UNIVERSITY
TENNIS STADIUM

DATE: 09/14/21

SCALE: N/A

PL1.2

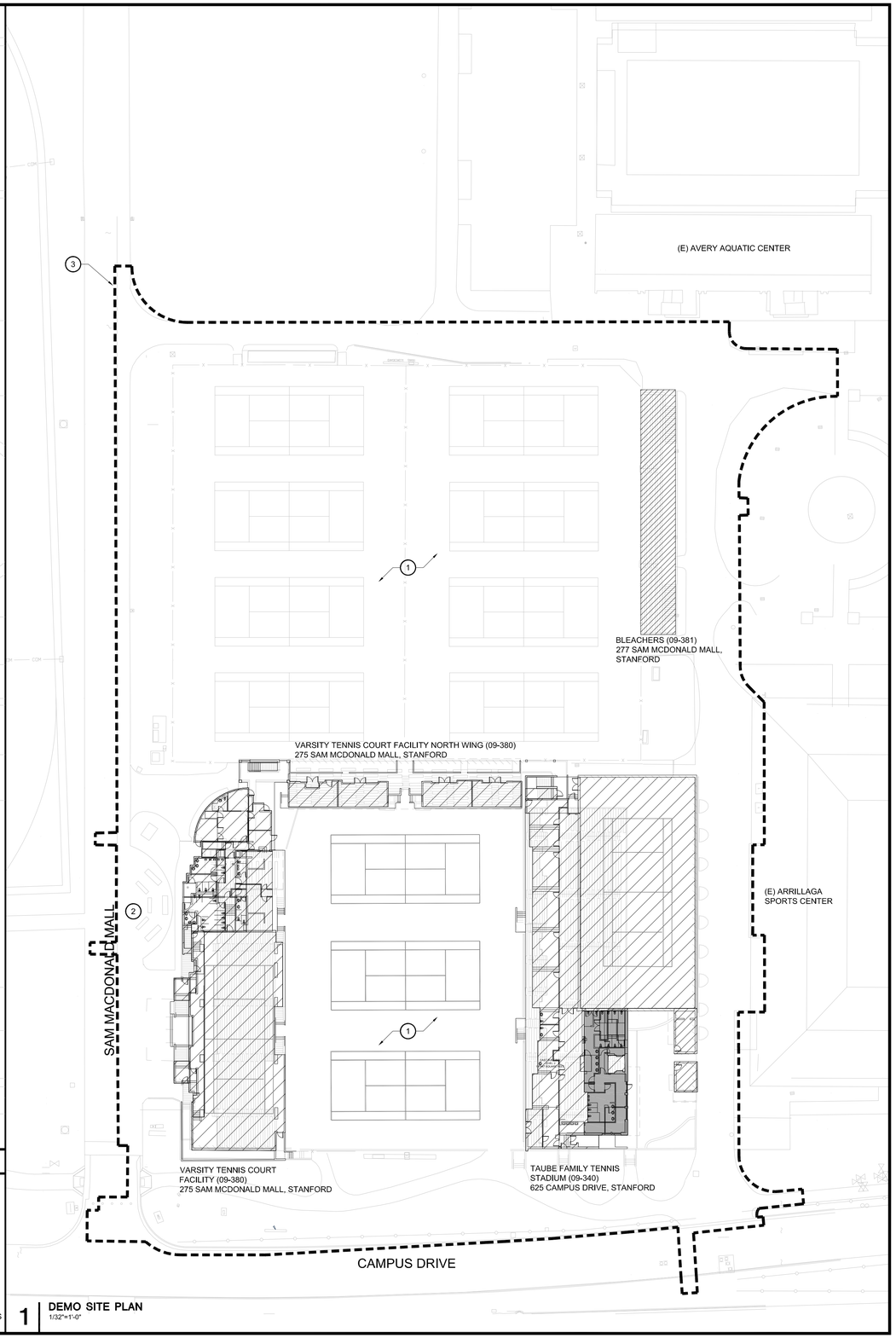
File: S:\220148\4_ENGINEERING\2_PLAN SETS\2_SHEET SET\ONSITE\PL1.2_GUP_INFO.dwg Date:May 03, 2023 - 11:34am, ahrynewich



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

LEGEND

- (E) BLEACHERS TO BE DEMOLISHED EXISTING 2,445 SEATS TOTAL (25 ACCESSIBLE/ 27 COMPANION)
- (E) BUILDING TO BE DEMOLISHED
- (1) (E) COURTS TO BE DEMOLISHED SALVAGE (E) FENCING FOR REUSE
- (2) PROTECT & SALVAGE (E) MONUMENTS FOR RELOCATION
- (3) CONSTRUCTION BOUNDARY LINE, S.L.D. & S.C.D. FOR SITE IMPROVEMENTS



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

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STANFORD UNIVERSITY

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

KSH
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 DEMO SITE PLAN

SCALE

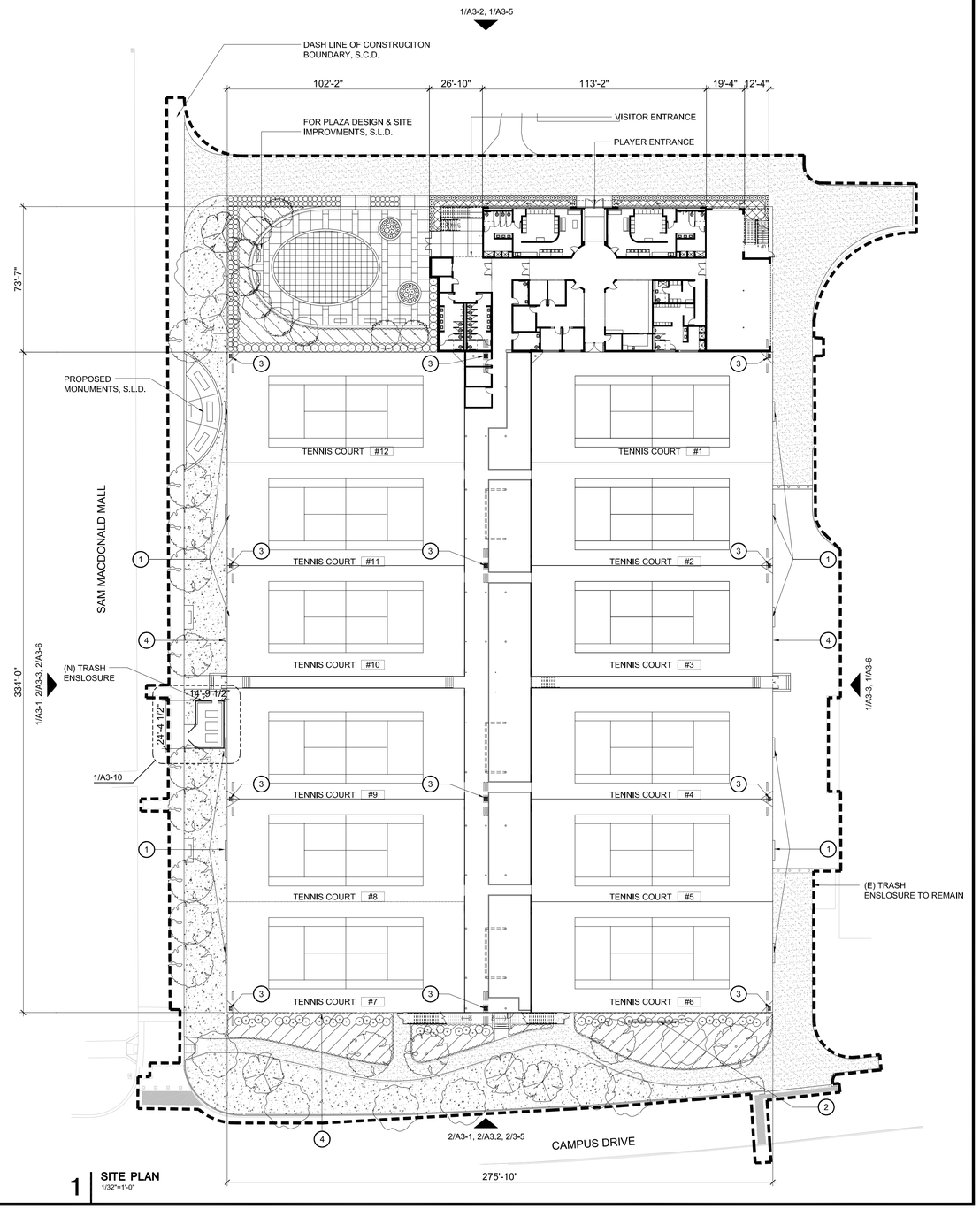
1/32" = 1'-0"

PROJ NORTH
TN

0 32 64

SHEET NUMBER

A1-0



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

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.

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22012

SHEET TITLE

TENNIS CENTER PROPOSED SITE PLAN

SCALE

1/32" = 1'-0"

PROJ NORTH
TN

0 32 64

SHEET NUMBER

A1-1

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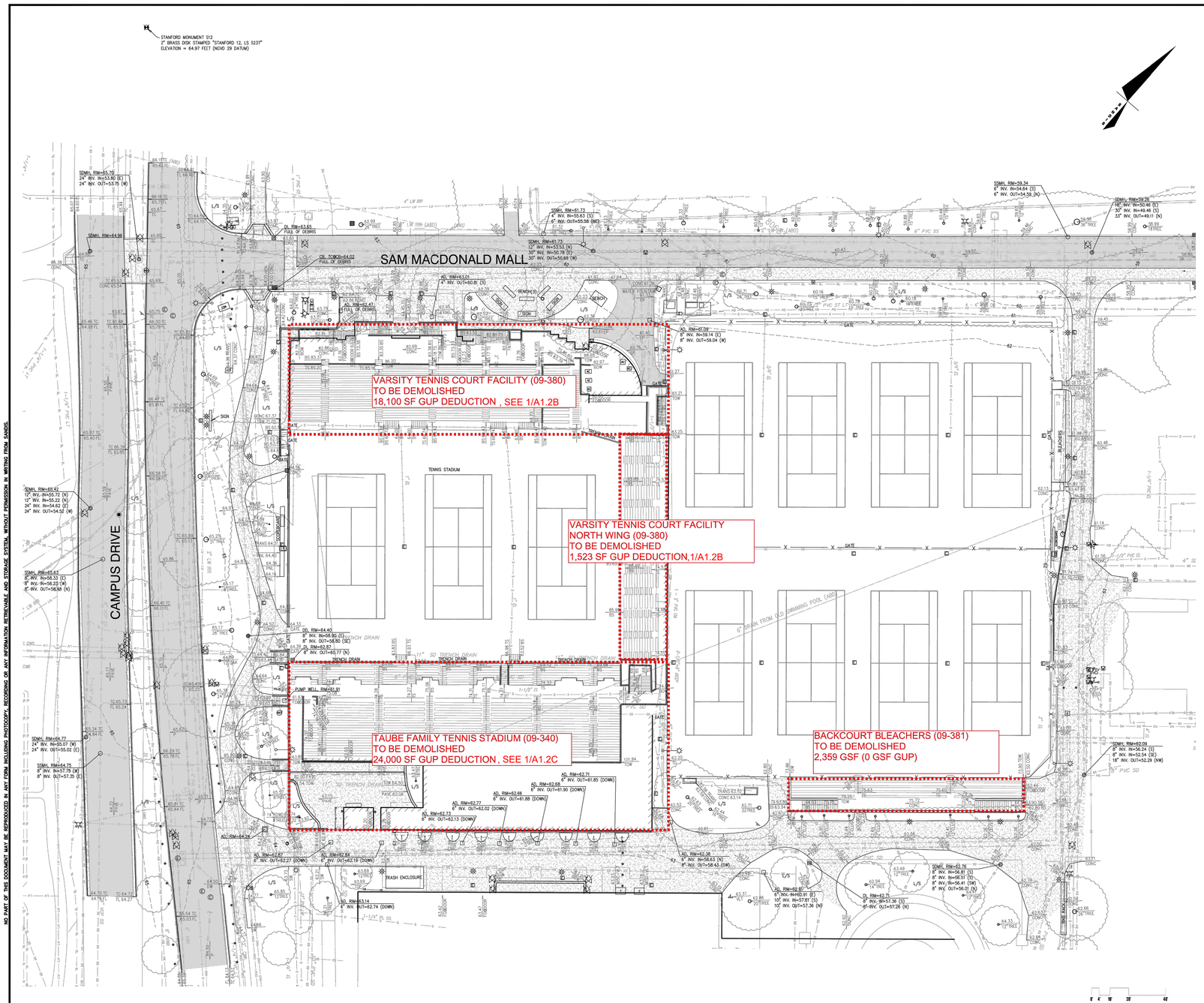

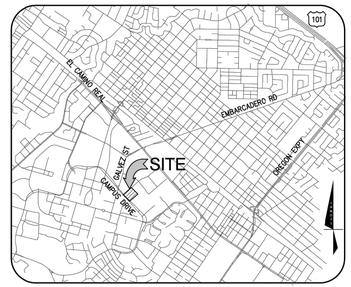

LEGEND

- BUILDING OVERHANG
- EDGE OF PAVEMENT
- CURB LINE
- CURB & GUTTER LINE
- WALL
- 95 CONTOURS 94
- RAIL
- FLOW LINE
- X FENCE LINE
- IRR IRRIGATION WATER
- LW LAKE WATER
- HWS HOT WATER
- CHW CHILLED WATER
- SD STORM DRAIN LINE
- SS SANITARY SEWER LINE
- WTR WATER LINE
- G NATURAL GAS LINE
- E UNDERGROUND ELECTRIC LINE
- CMN COMMUNICATION LINE
- PAVEMENT
- CONCRETE
- FOUND SURVEY MONUMENT
- STORM DRAIN MANHOLE
- DRAIN INLET
- DRAIN INLET (ROUND)
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- V WATER METER / BOX
- WATER VALVE
- BACKFLOW PREVENTOR
- WATER VALVE
- FIRE HYDRANT
- FIRE DEPARTMENT CONNECTION
- FDC POST INDICATOR VALVE
- IRRIGATION CONTROL / VALVE BOX
- GAS METER
- GAS VALVE
- COMMUNICATIONS MANHOLE
- C COMMUNICATIONS VAULT / PULLBOX
- ELECTRIC MANHOLE
- E 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
CHKSHT	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@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

1. ALL DISTANCES AND DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF.
2. DATES OF FIELD SURVEY: 08/09/21–08/13/21 AND 08/22/21.
3. 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 S12, WHICH IS A SET 2" 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 NATIVE DISTURBED AREAS WERE SURVEYED. THERE MAY BE OTHER TYPES OR LOCATIONS OF SUCH UNDERGROUND UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DESCRIBE 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.

KELLY S. JOHNSON
L.S. NO. 9106

PROFESSIONAL LAND SURVEYOR — KELLY S. JOHNSON — No. 9106 — STATE OF CALIFORNIA

XXXXXXXXXX
DATE

SANDIS
BUILD ON.
SANDIS.NET

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

No.	REVISION	DATE	BY

VARSITY TENNIS STADIUM
STANFORD CALIFORNIA

TOPOGRAPHIC SURVEY

SHEET 1

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File: \\Sandisvm1\san\220148\3_SURVEY\1_MAPPING\2_DELIVERABLES\TOPO\220148 - TENNIS STADIUM - TOPO.dwg Date:November 16, 2021 - 1:11 PM, nmiglori

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STANFORD UNIVERSITY

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Quad/ Bldg. Number: 09-345

KSH 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 GUP DEMO SURVEY REFERENCE

SCALE
NTS

SHEET NUMBER
A1-2A

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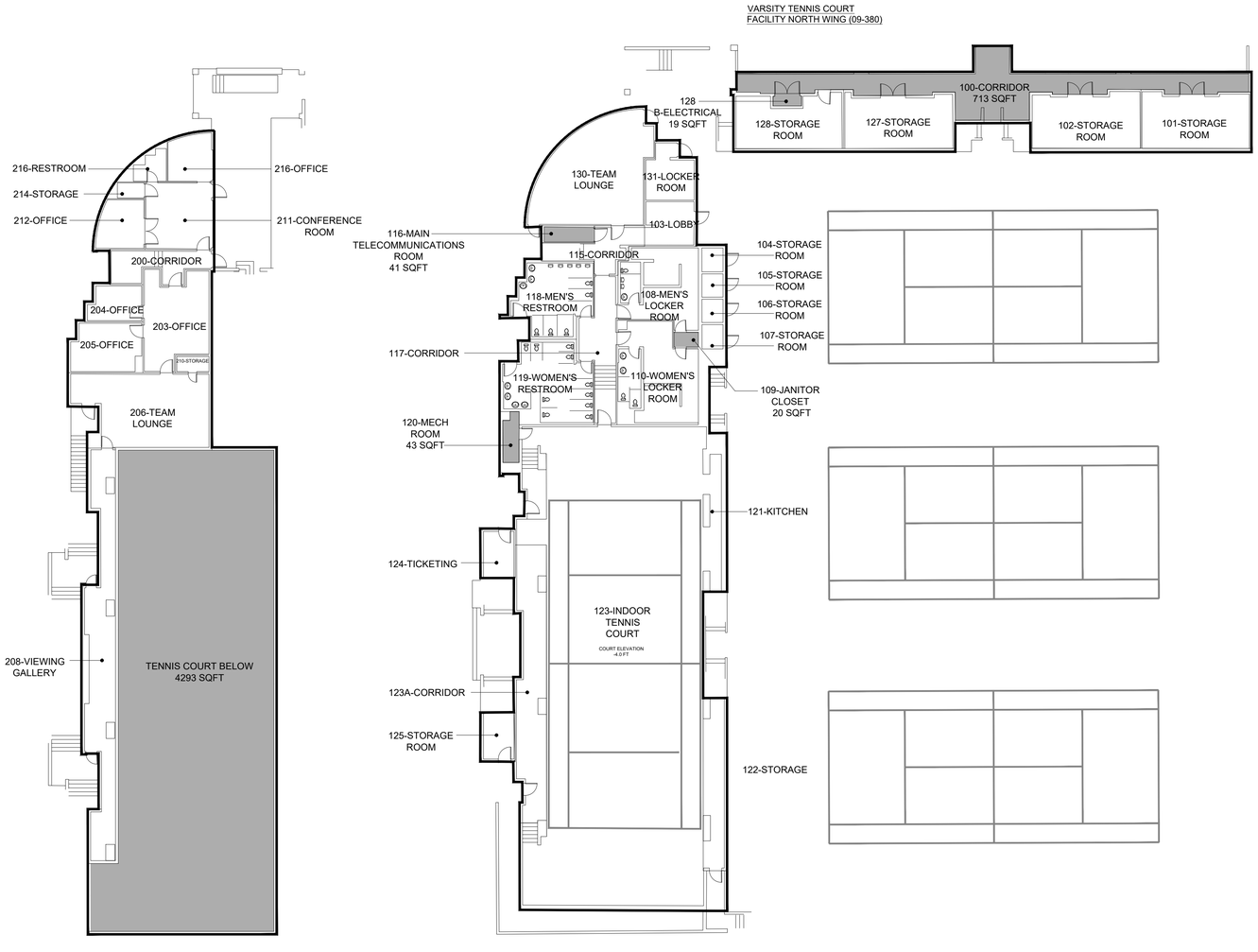

1 **EXISTING BUILDING DEMO GUP EXHIBIT**
1/16"=1'-0"

DEMO GUP

	CBC 502 BUILDING AREA (SF)	GOVERNMENT CODE 65995-65998 (SF)
VARSITY TENNIS COURT FACILITY (09-380)		
FLOOR 1 GROSS AREA	15,323	15,323
EXEMPTIONS		
109 Janitor Closet		(20)
116 Main Telecommunication Room		(41)
120 Mechanical Room		(43)
SUBTOTAL FLOOR 1	**15,323**	**15,219**
FLOOR 2 GROSS AREA	7,174	7,174
EXEMPTIONS		
Open to Below	(4,293)	(4,293)
SUBTOTAL FLOOR 2	**2,881**	**2,881**
TOTAL VARSITY TENNIS FACILITY	**18,204**	**18,100**
VARSITY TENNIS - NORTH WING (09-380)		
FLOOR 1 GROSS AREA	2,255	2,255
EXEMPTIONS		
100 Corridor (exterior)	(713)	(713)
128A Electrical Room		(19)
SUBTOTAL FLOOR 1	**1,542**	**1,523**
TOTAL VARSITY TENNIS - NORTH WING	**1,542**	**1,523**
TOTAL TAUBE FAMILY TENNIS STADIUM (09-340)	24,000	24,000
SEE A1.2B FOR SU SANTA CLARA COUNTY GENERAL USE PERMIT [1989], ANNUAL REPORT #12		
TOTAL DEMOLITION	**43,746**	**43,623**

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SHEET TITLE
TENNIS CENTER
GUP DEMO SURVEY REFERENCE

SCALE
AS NOTED

PROJ NORTH
TN

SHEET NUMBER
A1-2B

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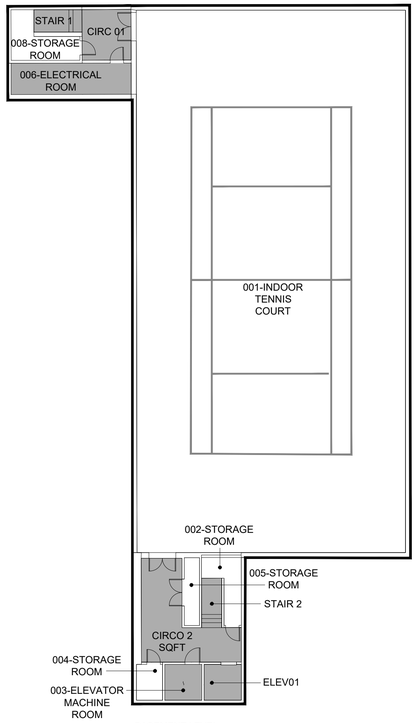
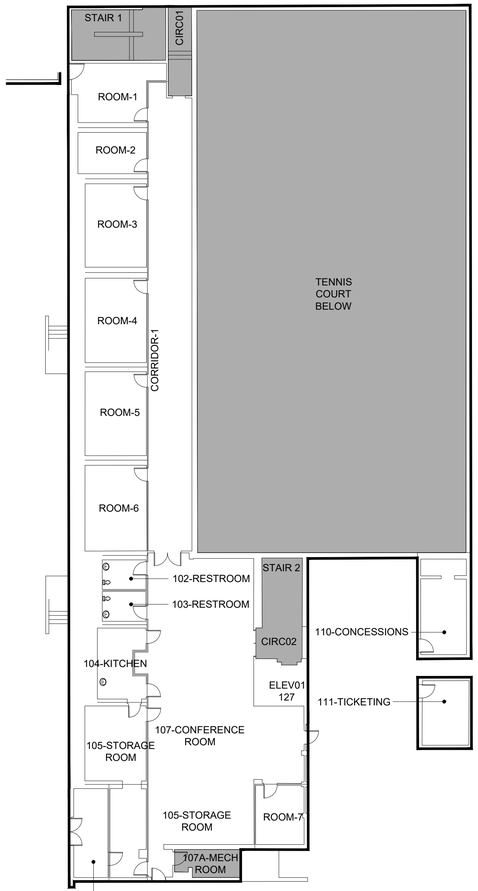
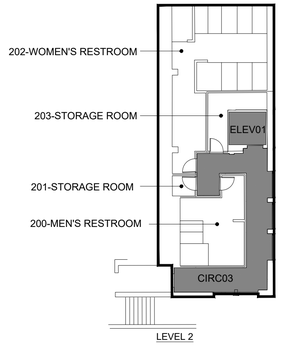


BASEMENT LEVEL



LEVEL 1



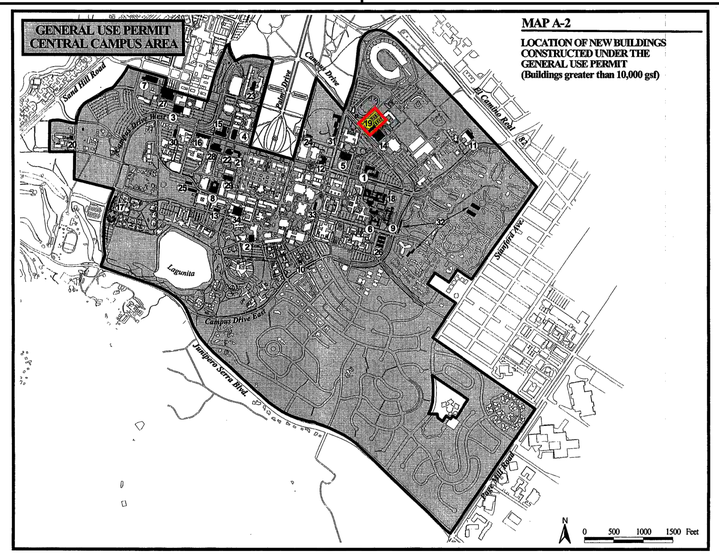
LEVEL 2

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

Stanford University

Santa Clara County
General Use Permit
Annual Report #12

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	1	Serra Complex	84,000	
(1988-89)	2	Tressider Expansion	10,000	
	3	RAF II	49,000	
	4	Gilbert Biology	100,000	
	5	Ford Field House	67,000	
		demo Ryan Lab	(22,476)	
				287,524
Annual Report #2	6	Kimball	60,500	
(1989-90)		demo Manzanita Trailers	(20,768)	
	7	MSLS/MRS	112,567	
	8	Green Earth Sciences	77,000	
		demolition	(40,487)	
				188,812
Annual Report #3		Golf Maintenance Shed	4,370	
(1990-91)	9	Manzanita II	63,000	
		demo Manzanita Trailers	(38,704)	
		HEPL office space	5,000	
				33,666
Annual Report #4	10	Haas Public Service Center	16,000	
(1991-92)	11	Stanford Auxillary Library	35,000	
	12	Econ/CEPR	45,000	
				96,000
Annual Report #5		HD&S Shop	2,437	
(1992-93)	13	Thornton Engineering	11,500	
	14	Arrillaga Family Sports Center	107,415	
				121,352
Annual Report #6		Econ/CEPR addition	2,450	
(1993-94)	15	Gates Computer Science	160,800	
	16	CIS Extension	53,000	
				216,250
Annual Report #7		HS&S Shop II	5,575	
(1994-95)		HEPL Annex II	5,000	
	17	Governor's Corner	105,584	
				116,159
Annual Report #8		GP-B Modular	8,640	
(1995-96)		demo old GP-B modular	(6,224)	
		demo old Ginzton modular	(2,880)	
	18	Schwab Center	158,000	
		demo Manzanita Trailers	(50,967)	
	19	Tennis Stadium expansion	24,000	
	20	ESF Annex	6,500	
				137,069

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

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PROJECT NUMBER
22012

SHEET TITLE
TENNIS CENTER GUP DEMO REFERENCE

SCALE
NTS

SHEET NUMBER
A1-2C

LEGEND

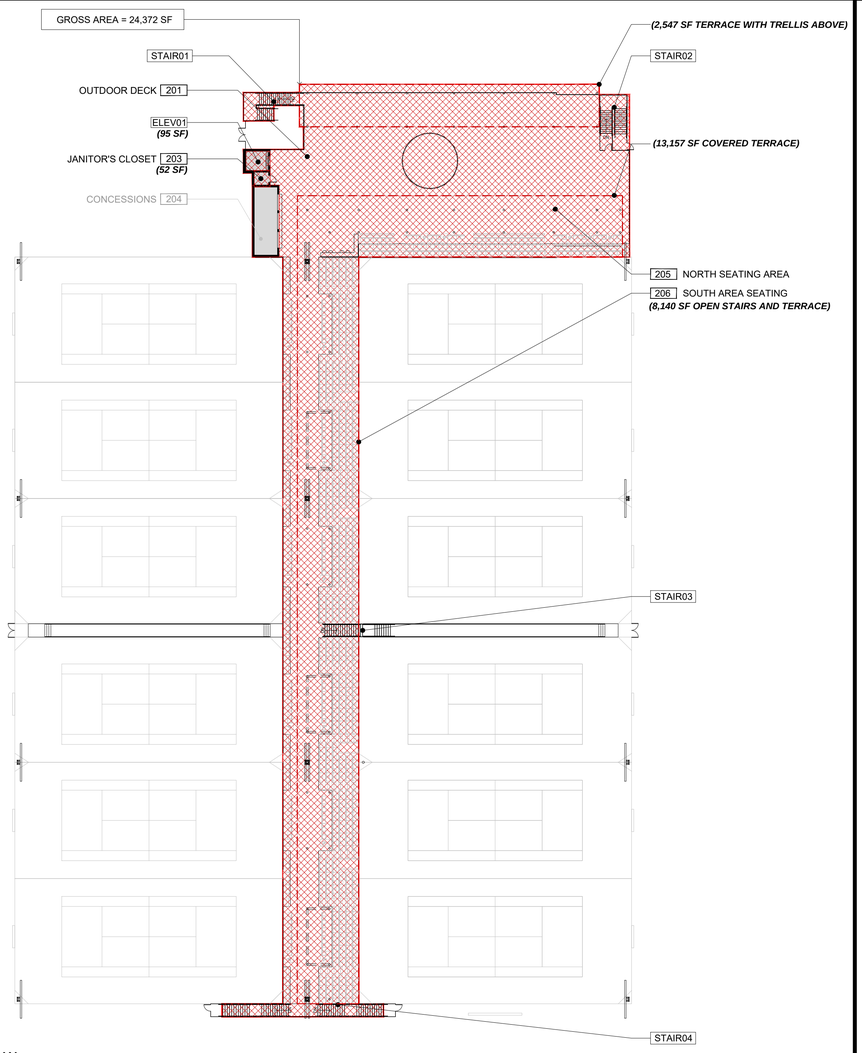
GUP AREA

EXTEMPT (INTERIOR AREA)

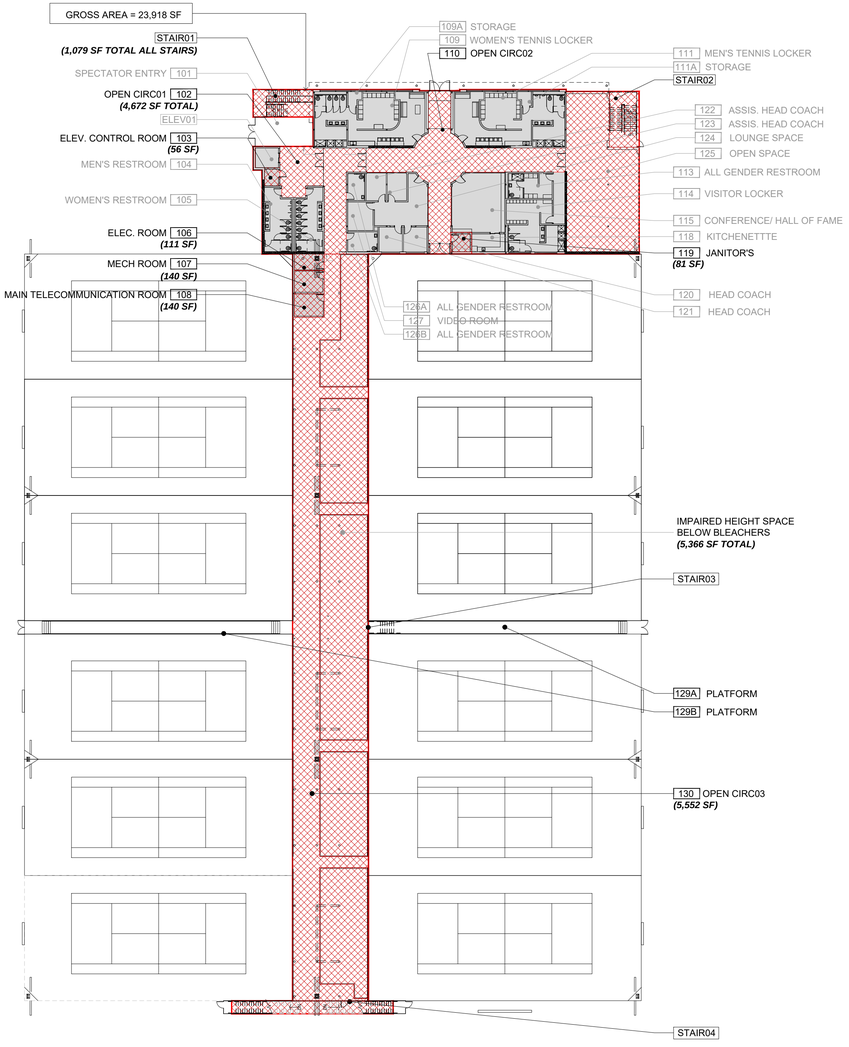
EXTEMPT COVERED (EXTERIOR) ARCADE AREA

PROPOSED GUP CALC

	CBC 502 BUILDING AREA (SF)	GOVERNMENT CODE 65995-65998 (SF)
VARSITY TENNIS COURT FACILITY (09-345)		
FLOOR 1 GROSS AREA	**23,917**	**23,917**
EXEMPTIONS		
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)
SUBTOTAL FLOOR 1	**16,488**	**6,720**
FLOOR 2 GROSS AREA	**24,372**	**24,372**
EXEMPTIONS		
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)
SUBTOTAL FLOOR 2	**13,685**	**381**
TOTAL VARSITY COURT FACILITY	**30,173**	**7,101**
TOTAL GUP AREA SUMMARY		
PROPOSED GUP AREA		**7,101**
DEMOLITION GUP AREA (REFER TO A1.2C FOR TOTAL DEMO GUP CREDIT)	43,623	
TOTAL GUP AREA	(36,522)	



2 **SECOND FLOOR PLAN**
1/32"=1'-0"



1 **GROUND FLOOR PLAN**
1/32"=1'-0"

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

KSH
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 GUP PROPOSED

SCALE

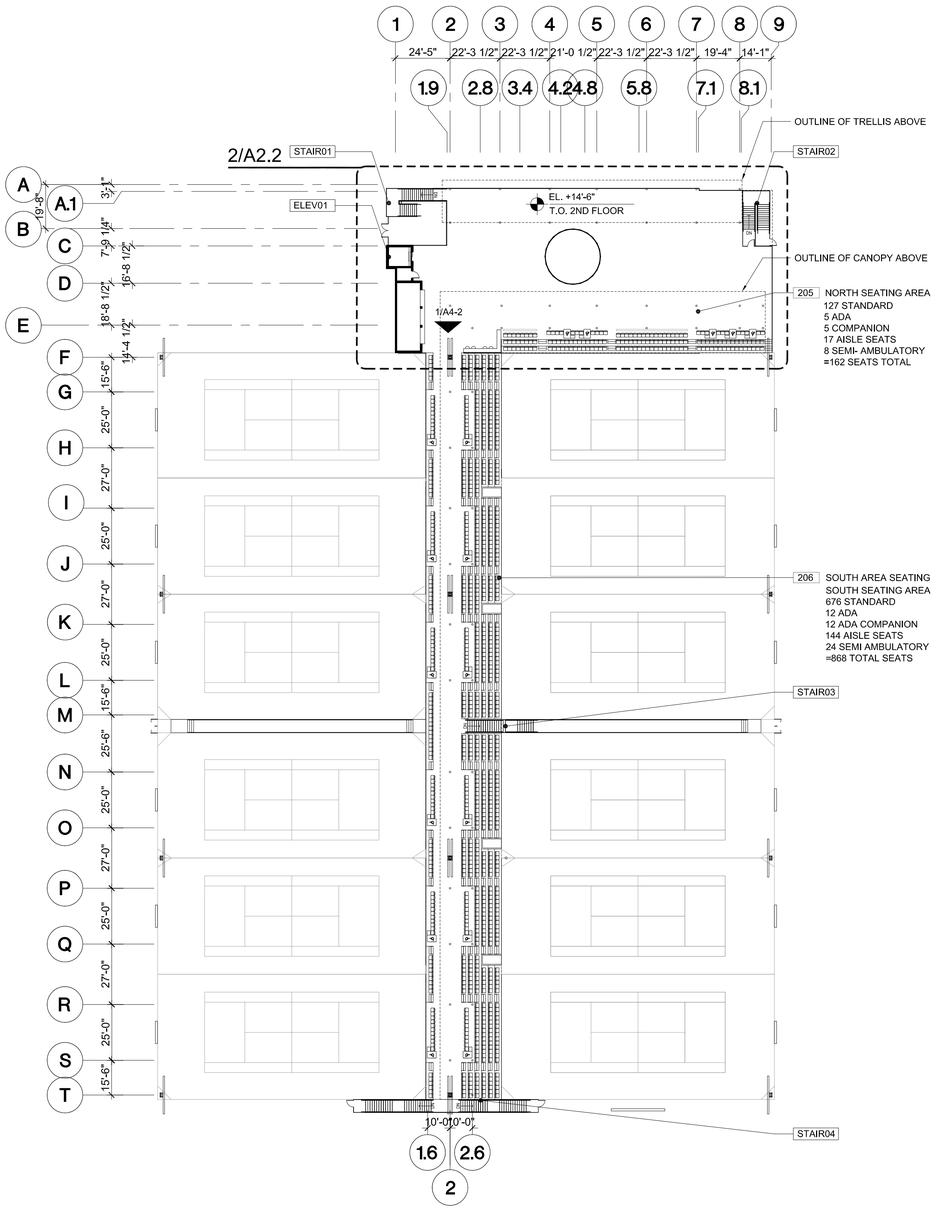
1/32" = 1'-0"

PROJ NORTH
TN

0 32 64

SHEET NUMBER

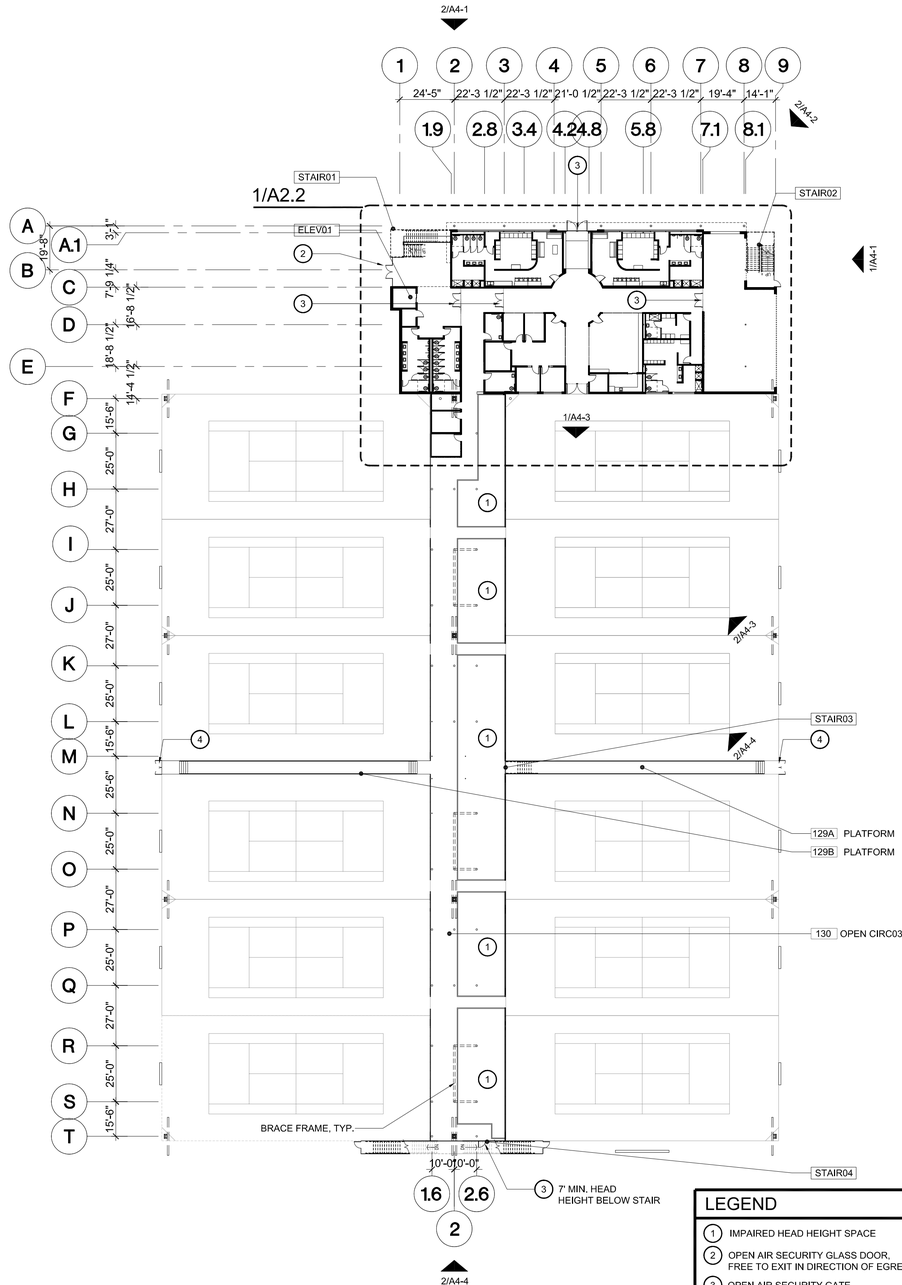
A1-3



2 2ND LEVEL PLAN

1/32"=1'-0"

TOTAL: 1,030 SEATS



1 GROUND LEVEL PLAN

1/32"=1'-0"

LEGEND

1. IMPAIRED HEAD HEIGHT SPACE
2. OPEN AIR SECURITY GLASS DOOR, FREE TO EXIT IN DIRECTION OF EGRESS
3. OPEN AIR SECURITY GATE
4. TENNIS COURT FENCE GATE

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22012

SHEET TITLE

TENNIS CENTER
GROUND & SECOND FLOOR PLAN

SCALE

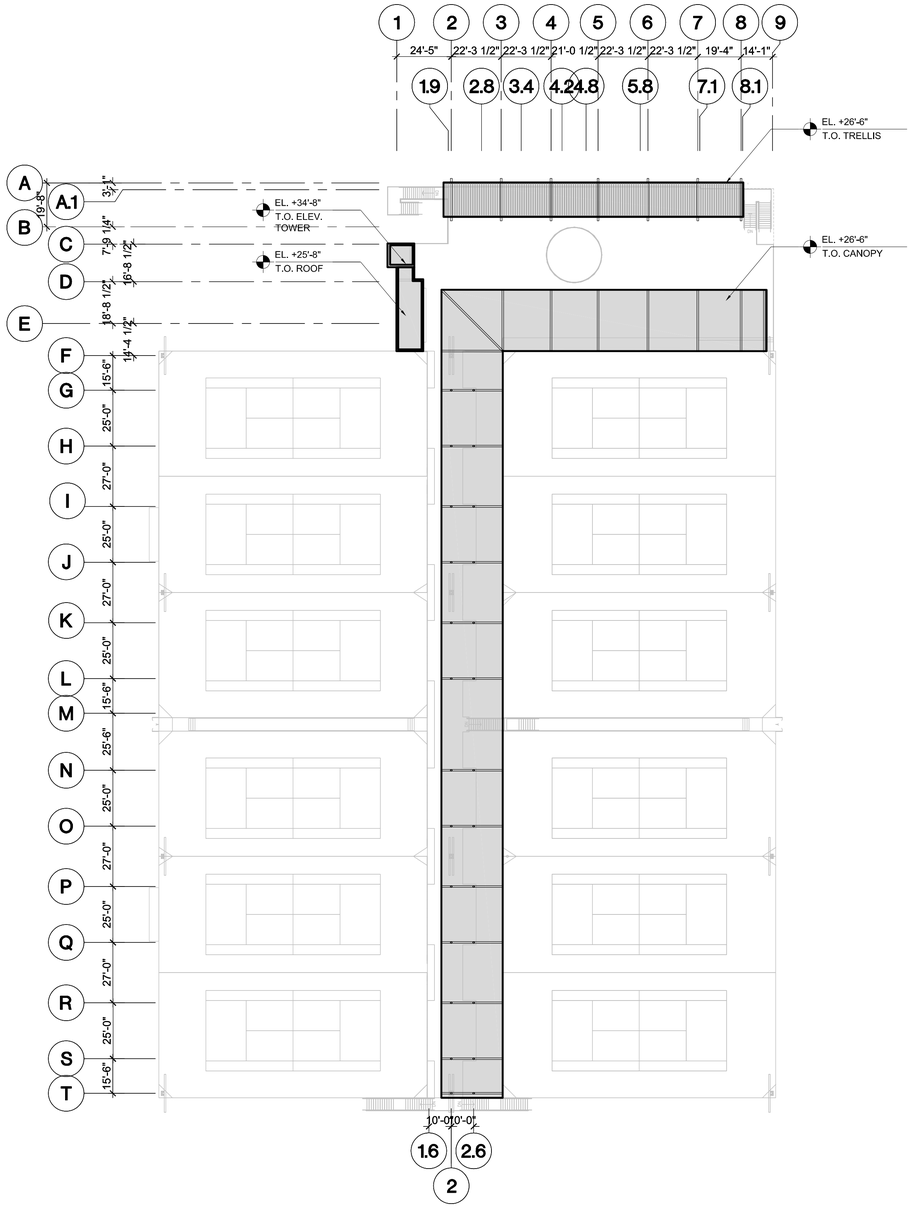
1/32" = 1'-0"

PROJ NORTH
TN

0 32 64

SHEET NUMBER

A2-0



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

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22012

SHEET TITLE

TENNIS CENTER
ROOF FLOOR PLAN

SCALE

1/32" = 1'-0"

PROJ NORTH
TN

0 32 64

SHEET NUMBER

A2-1

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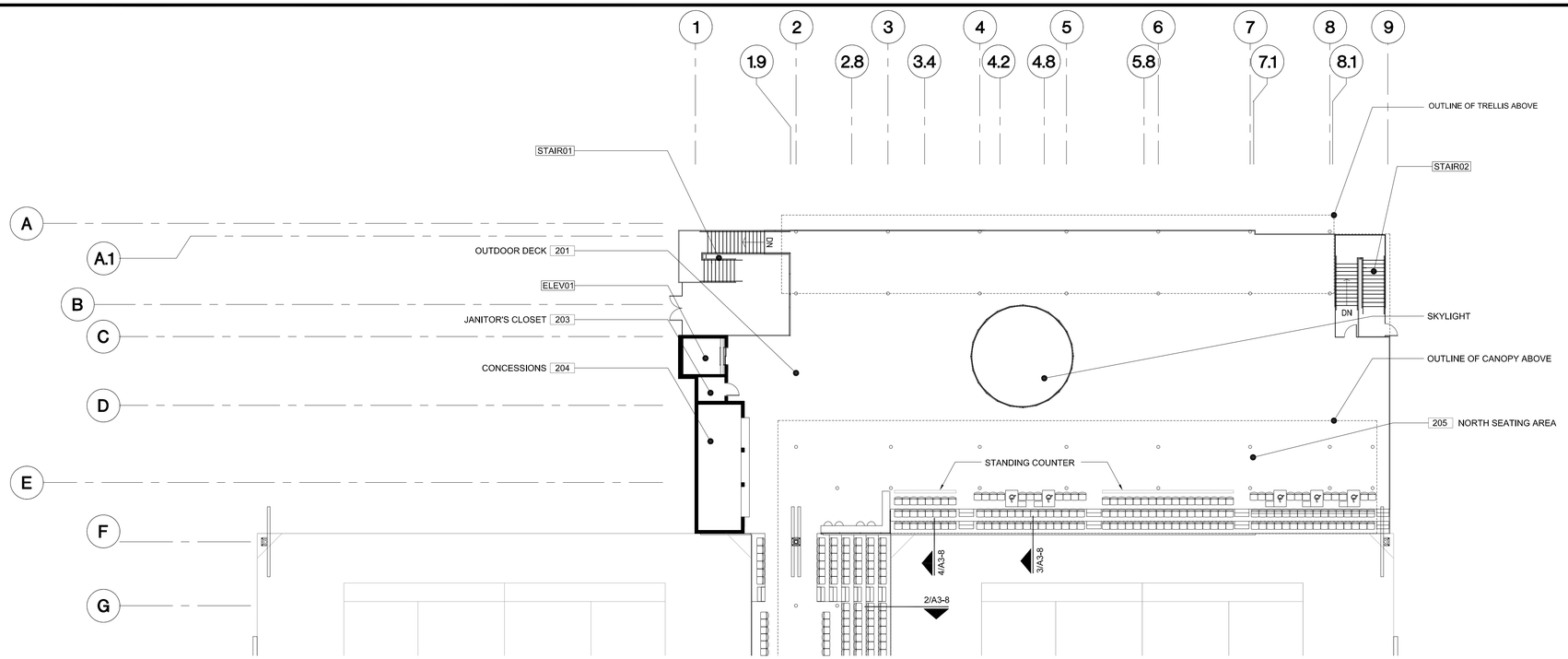
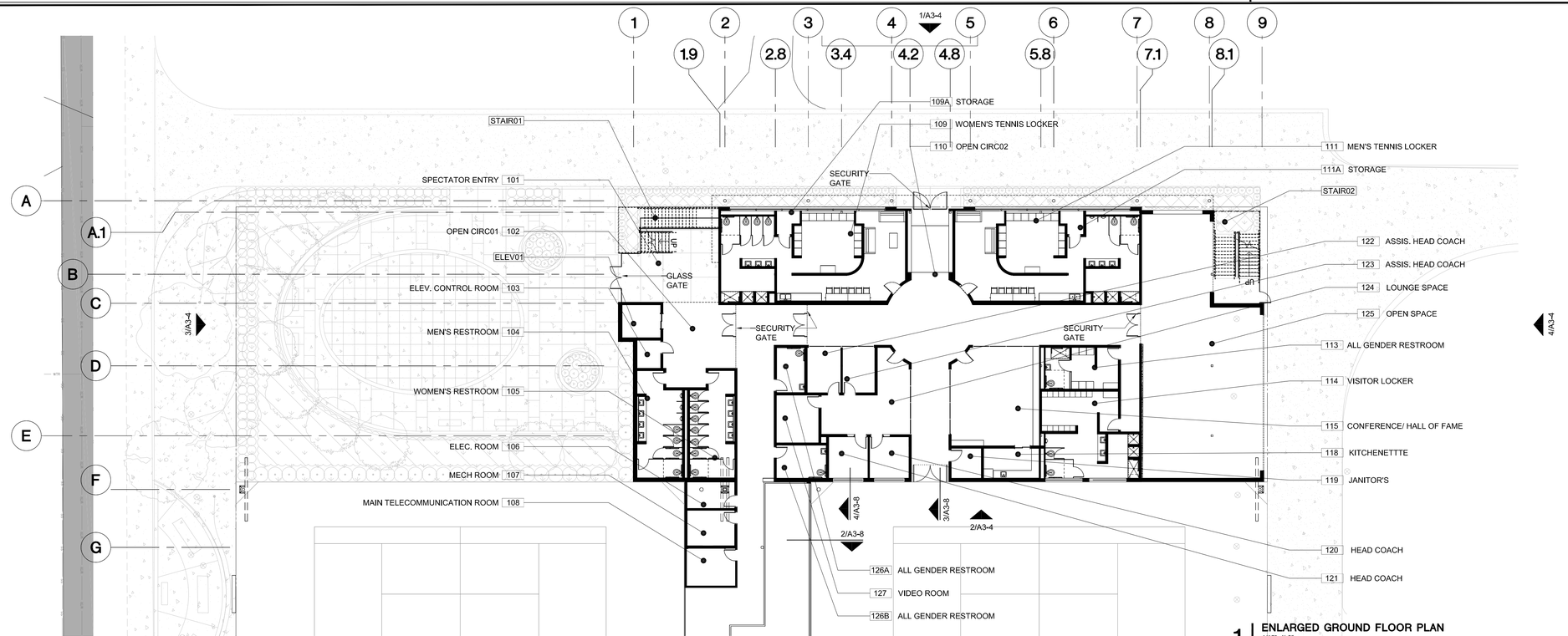


2 ENLARGED SECOND FLOOR PLAN
1/16"=1'-0"



1 ENLARGED GROUND FLOOR PLAN
1/16"=1'-0"

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SHEET TITLE
TENNIS CENTER ENLARGED GROUND & SECOND FLOOR PLAN

SCALE
AS NOTED

PROJ NORTH
TN

SHEET NUMBER
A2-2

3 | NOT USED

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

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

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SHEET TITLE

TENNIS CENTER CONTEXT ELEVATIONS

SCALE

AS NOTED

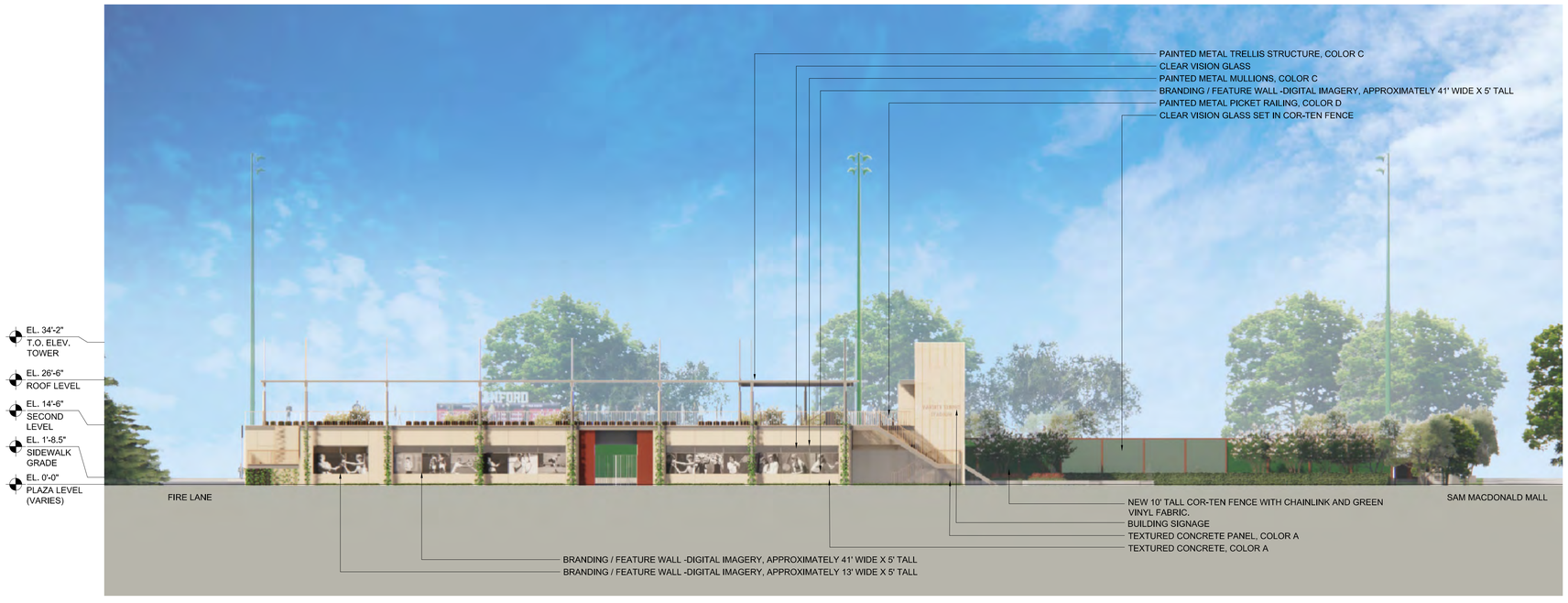
SHEET NUMBER

A3-1

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

ELEVATION LEGEND

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



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

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SHEET TITLE

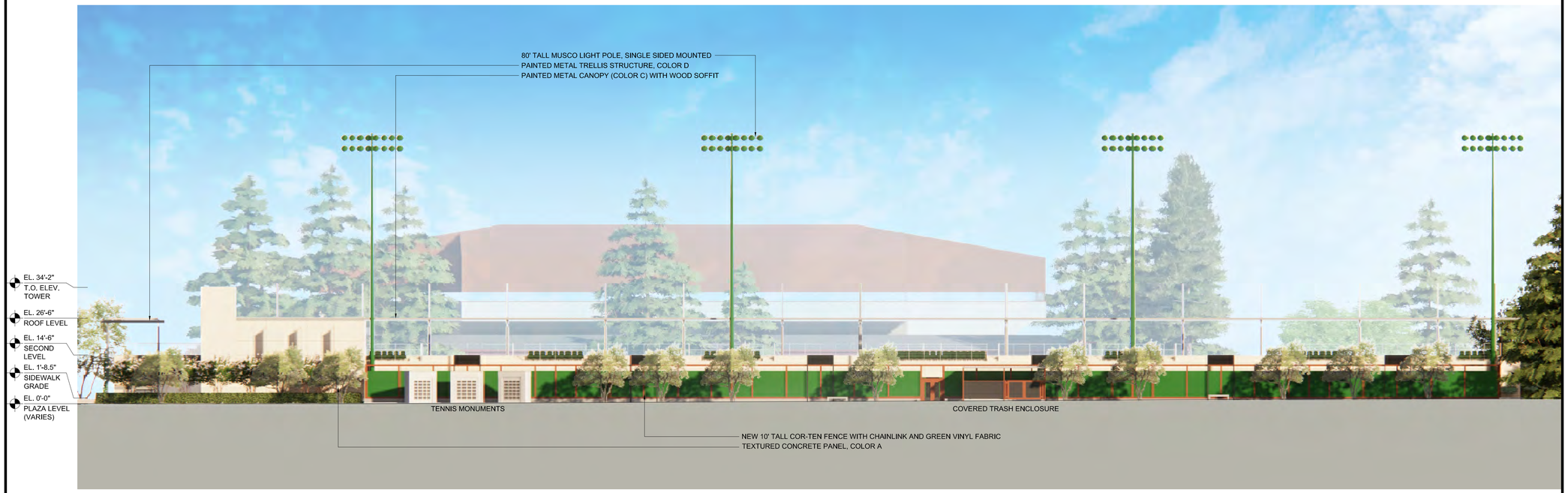
TENNIS CENTER ELEVATIONS

SCALE

AS NOTED

SHEET NUMBER

A3-2



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"

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SHEET TITLE

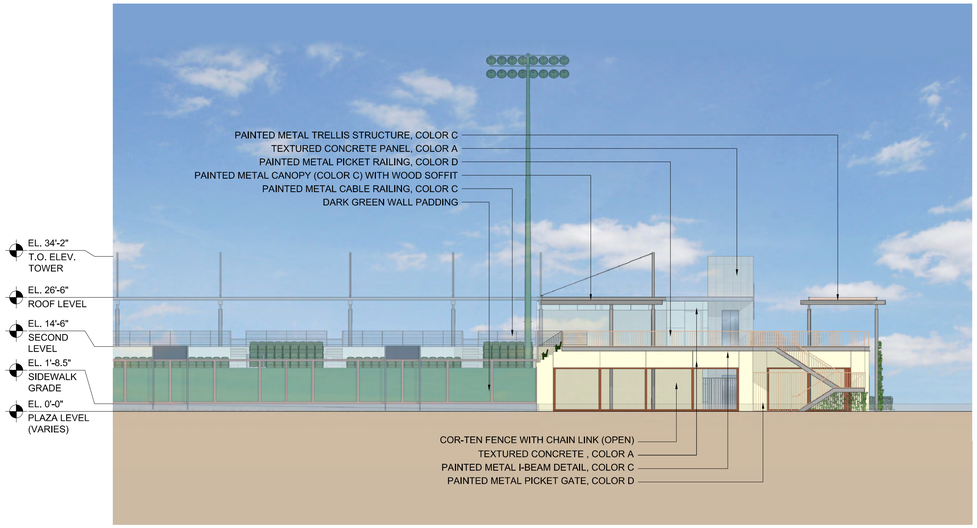
TENNIS CENTER ELEVATIONS

SCALE

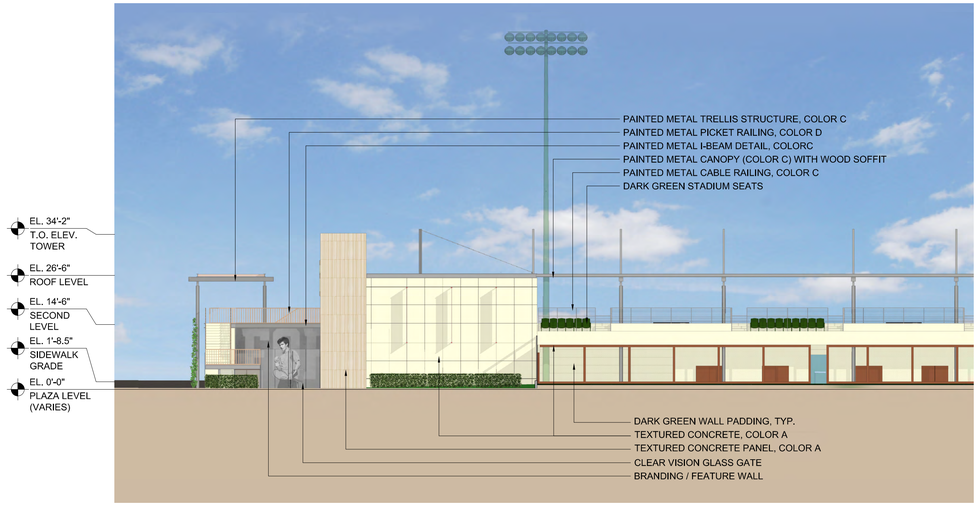
AS NOTED

SHEET NUMBER

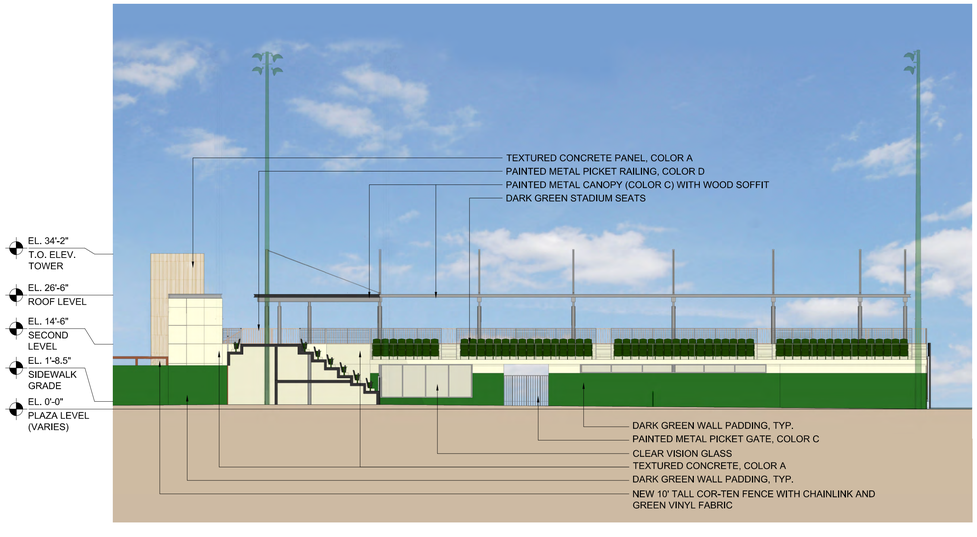
A3-3



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"

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SHEET TITLE

TENNIS CENTER BUILDING ELEVATIONS

SCALE

AS NOTED

SHEET NUMBER

A3-4

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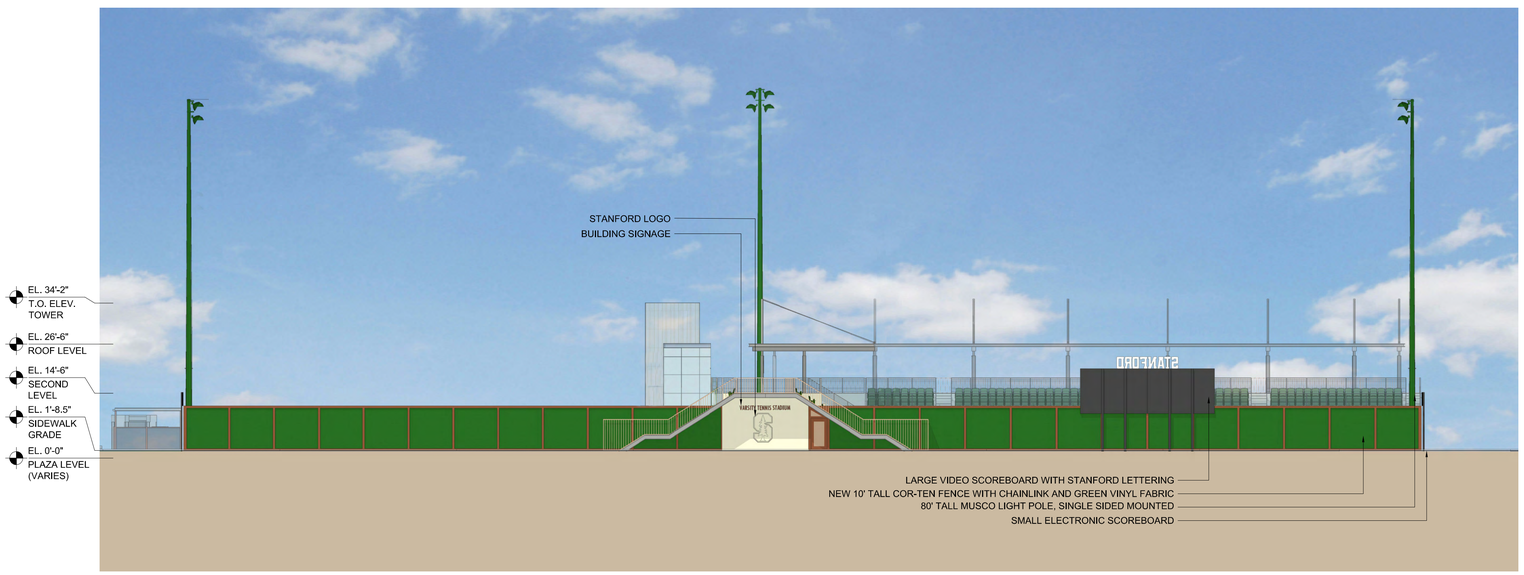
2 **WEST ELEVATION (VIEW FROM SAM MACDONALD MALL)**
1/16"=1'-0"



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

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SHEET TITLE

TENNIS CENTER FENCE ELEVATIONS

SCALE

AS NOTED

SHEET NUMBER

A3-5

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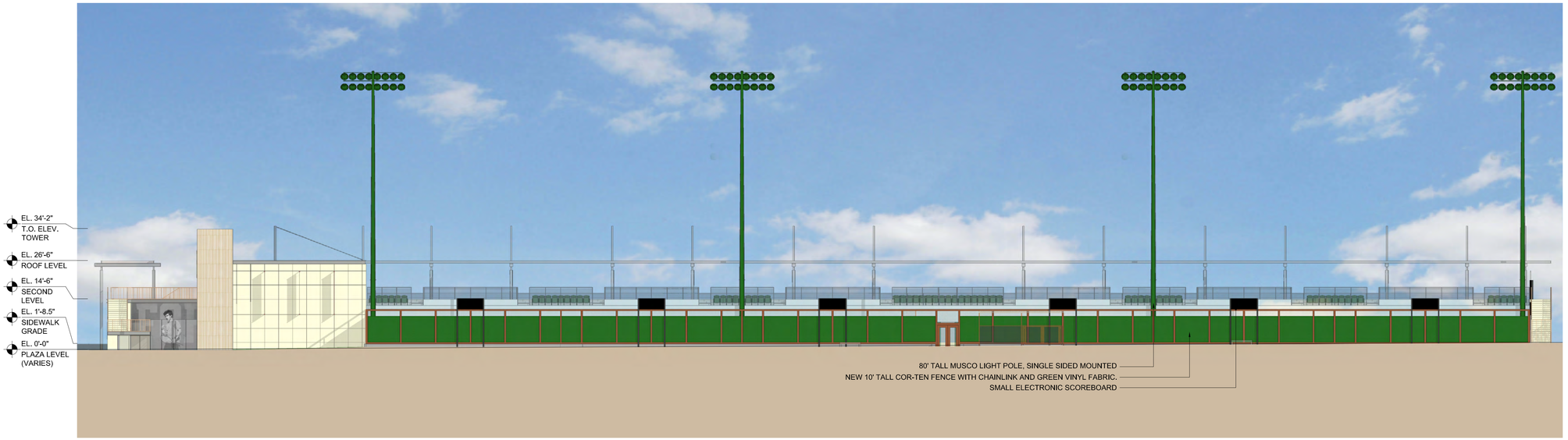
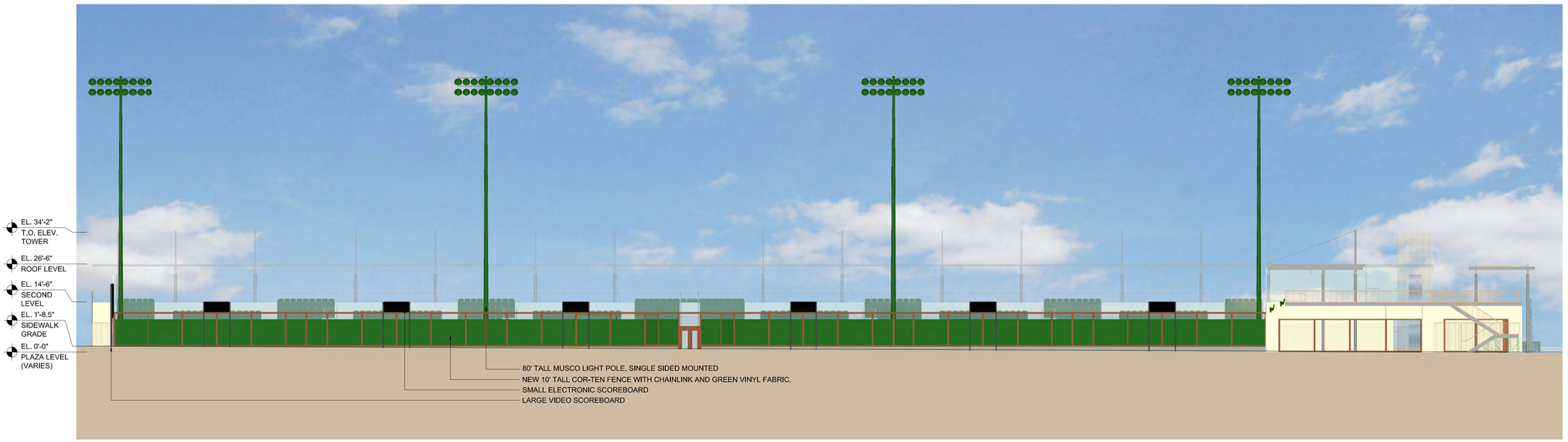


2 SOUTH ELEVATION (VIEW FROM CAMPUS DRIVE)
1/16"=1'-0"



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

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SHEET TITLE

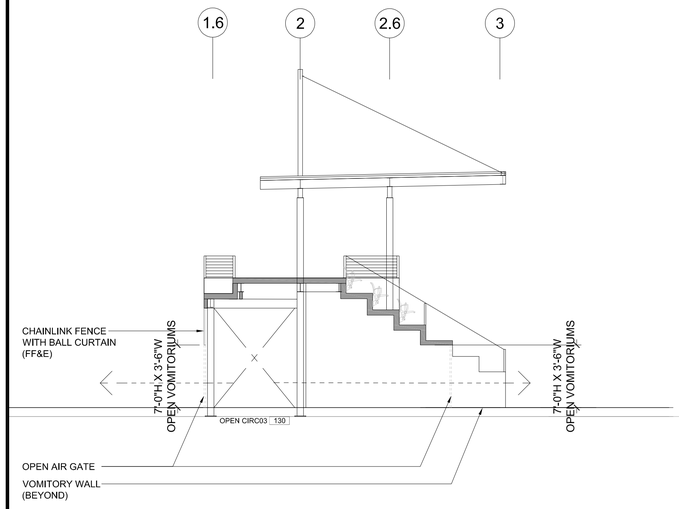
TENNIS CENTER FENCE ELEVATIONS

SCALE

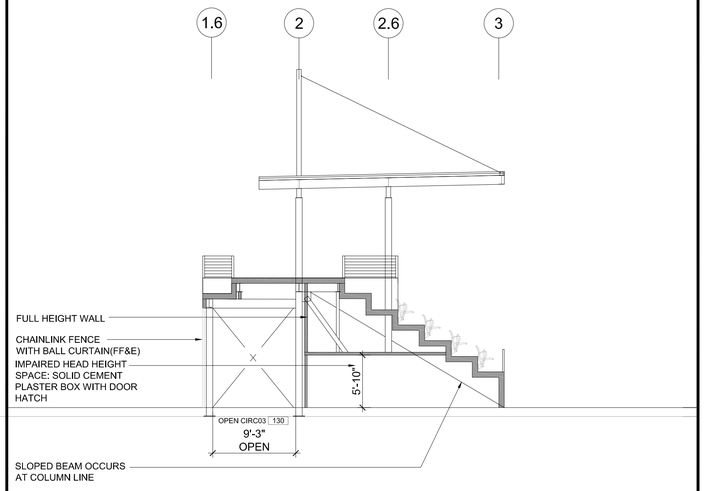
AS NOTED

SHEET NUMBER

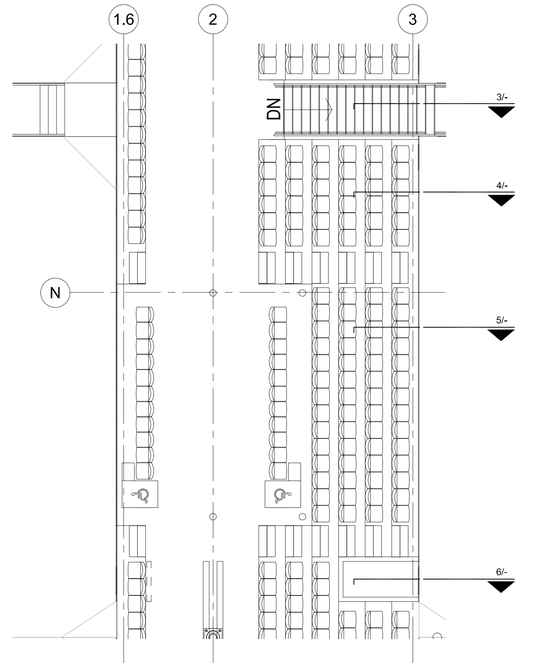
A3-6



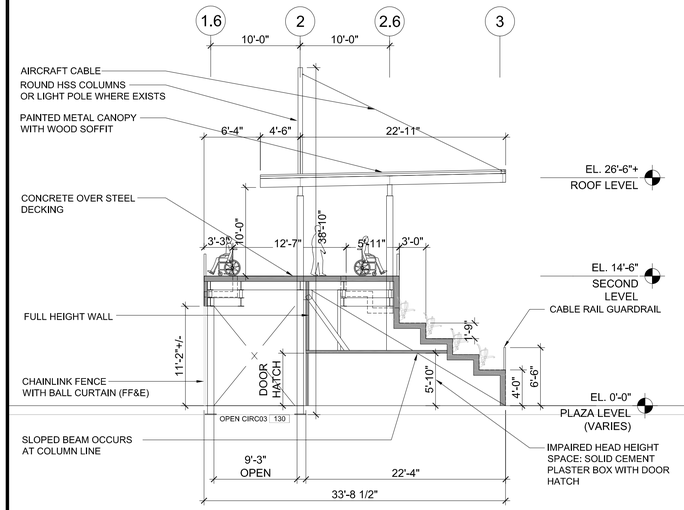
6 SECTION THROUGH VOMITORIUM OPENINGS
1/8"=1'-0"



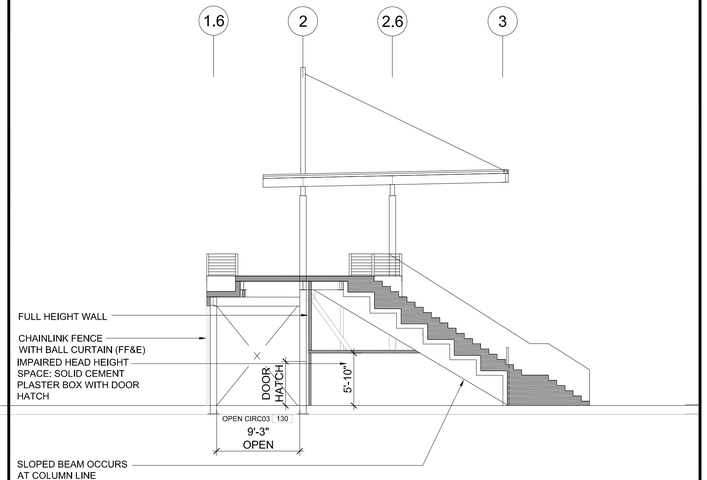
4 SECTION THROUGH STANDARD SEATING
1/8"=1'-0"



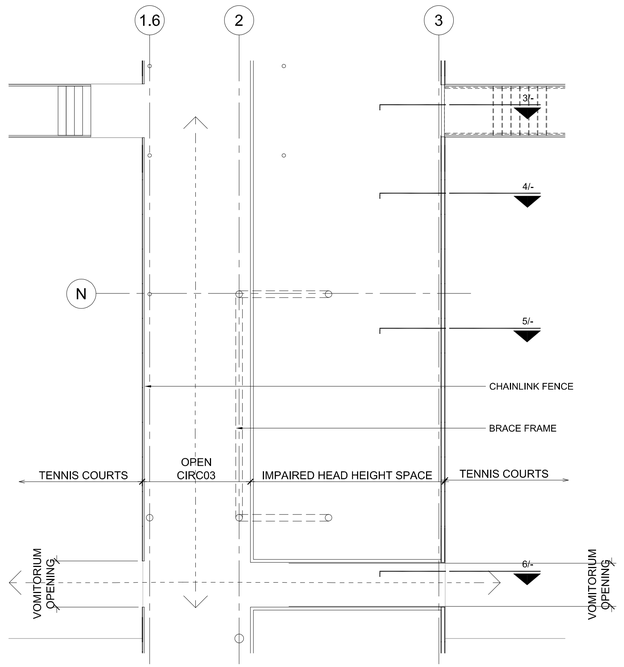
2 SECOND LEVEL ENLARGED PLAN
1/8"=1'-0"



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"

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SHEET TITLE

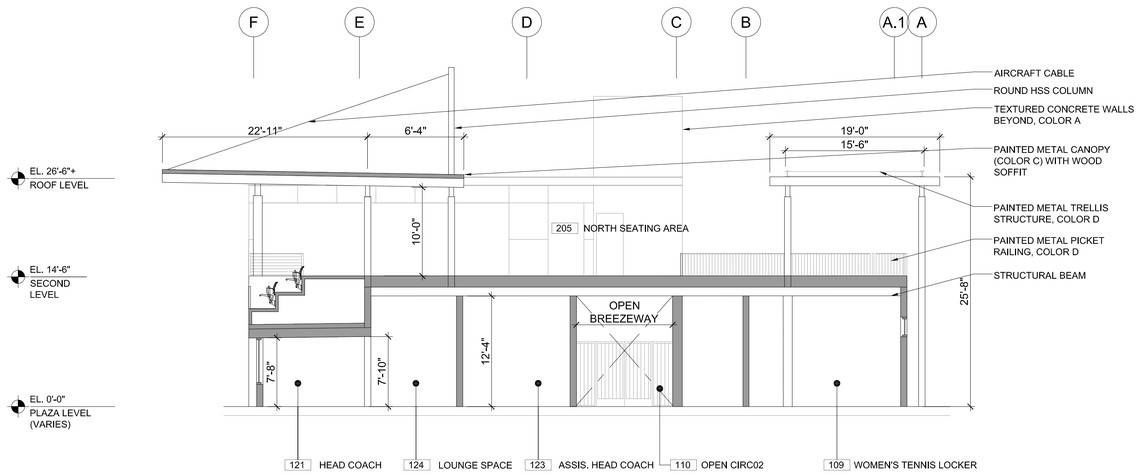
TENNIS CENTER SECTION

SCALE

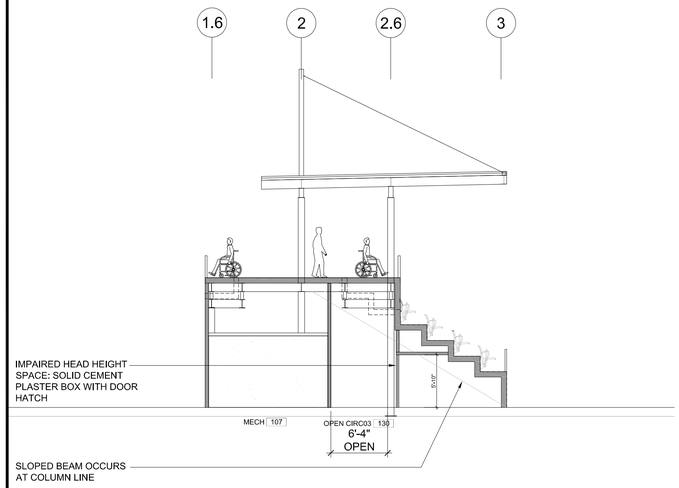
AS NOTED

SHEET NUMBER

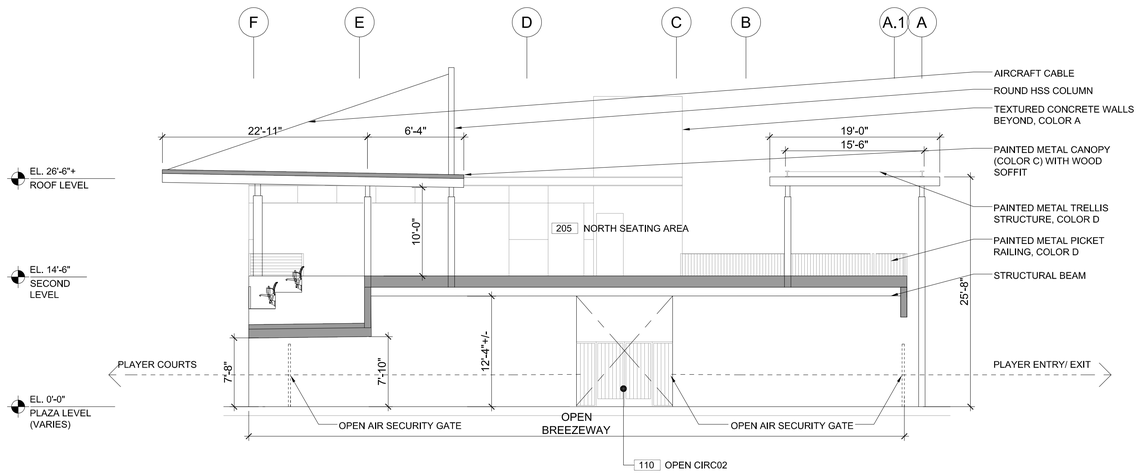
A3-7



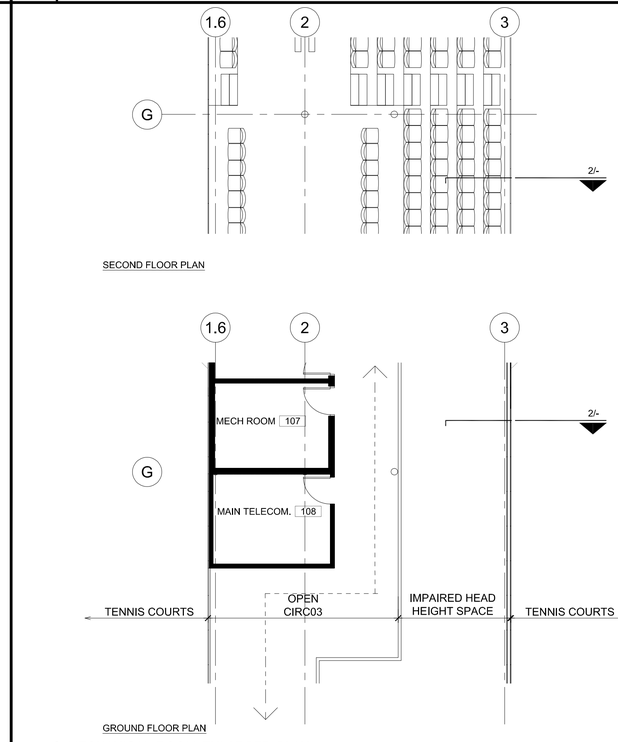
4 SECTION THROUGH LOCKER ROOMS
1/8"=1'-0"



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



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



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

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SHEET TITLE

TENNIS CENTER SECTION

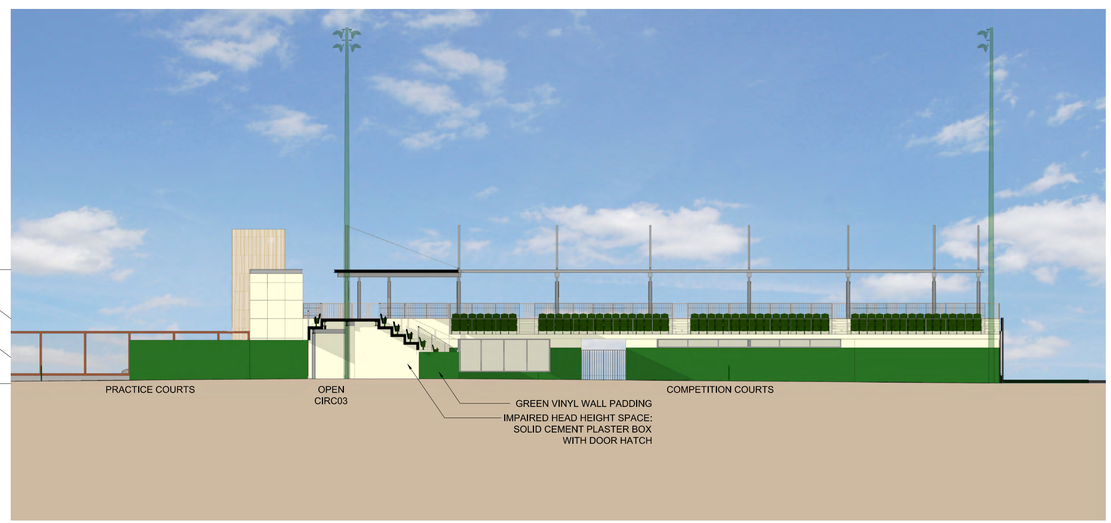
SCALE

AS NOTED

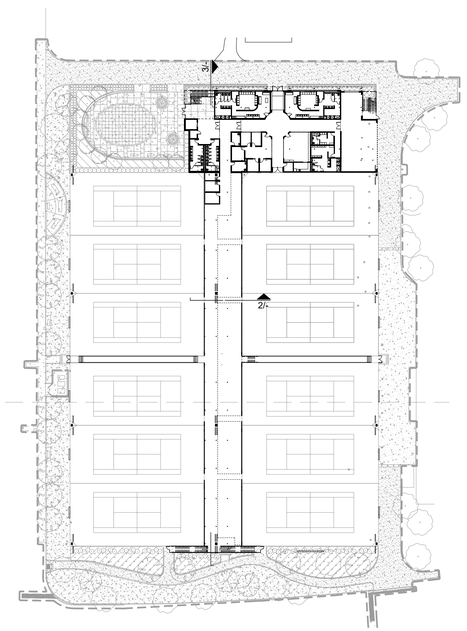
SHEET NUMBER

A3-8

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



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



1 **KEY PLAN**
1/64"=1'-0"

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SHEET TITLE
TENNIS CENTER INTERIOR ELEVATIONS

SCALE
AS NOTED

SHEET NUMBER
A3-9

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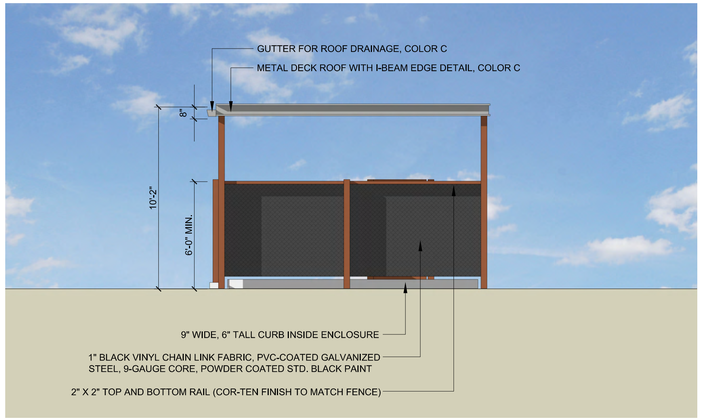
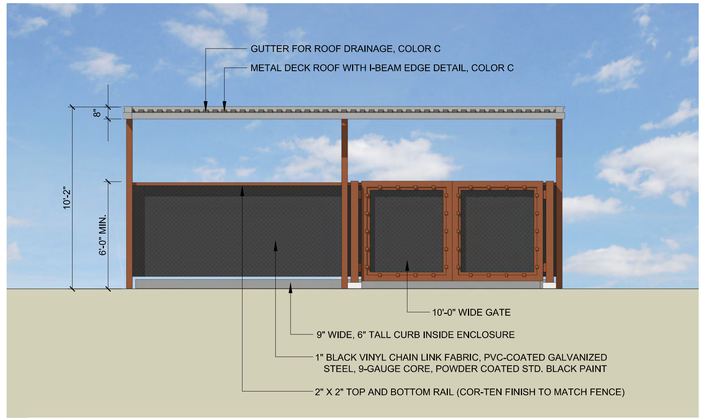
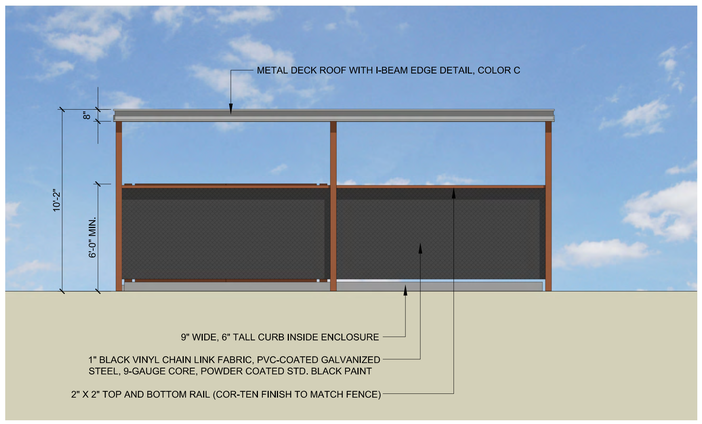


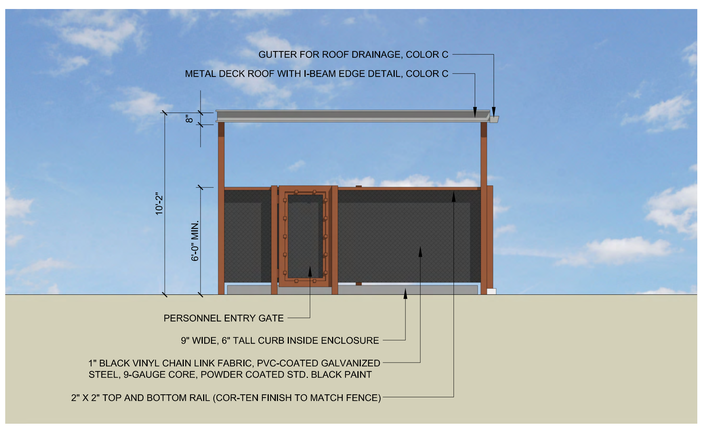
5 ENLARGED SOUTH ELEVATION
1/4"=1'-0"



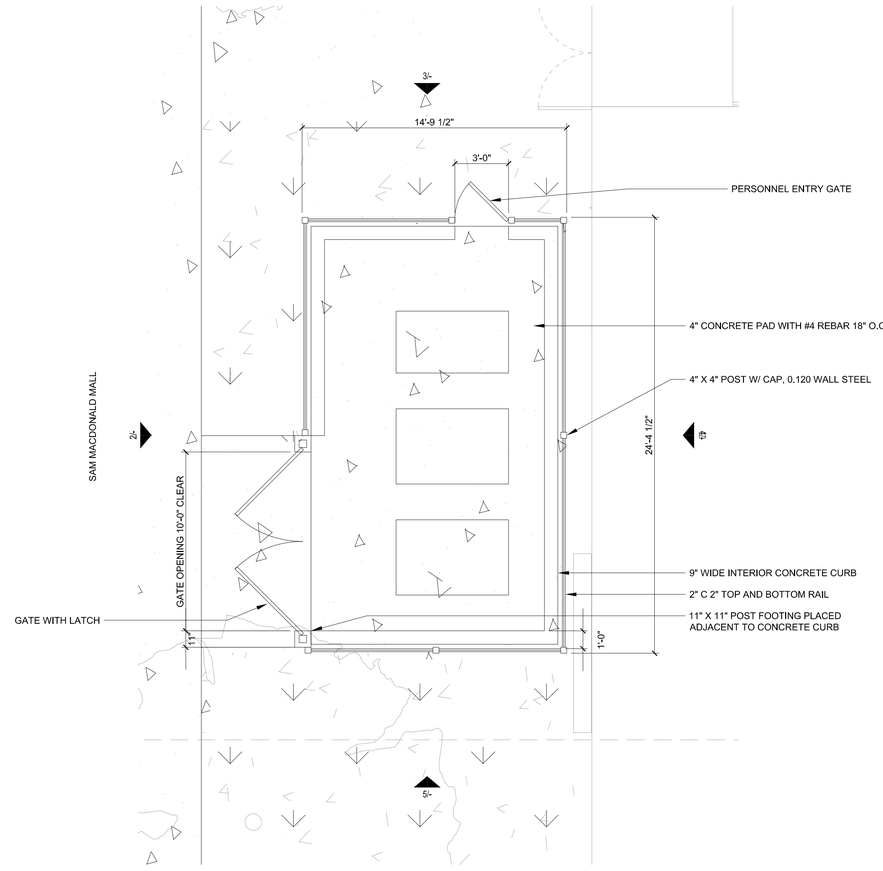
2 ENLARGED EAST ELEVATION
1/4"=1'-0"



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



3 ENLARGED NORTH ELEVATION
1/4"=1'-0"



1 ENLARGED PLAN
1/4"=1'-0"

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STANFORD UNIVERSITY

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

KSH
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 ENLARGED TRASH ENCLOSURE PLAN & ELEVATIONS

SCALE
AS NOTED

SHEET NUMBER
A3-10

2 VIEW FROM CHUCK TAYLOR GROVE

1 VIEW FROM AVERY AQUATICS CENTER

STANFORD UNIVERSITY

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SHEET TITLE

TENNIS CENTER RENDERINGS

SCALE

AS NOTED

SHEET NUMBER

A4-1

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2 VIEW FROM AVERY AQUATICS CENTER

1 VIEW FROM ROOF TERRACE

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PROJECT NUMBER
22012

SHEET TITLE

TENNIS CENTER RENDERINGS

SCALE

AS NOTED

SHEET NUMBER

A4-2

2 | VIEW FROM TENNIS COURTS

1 | VIEW FROM TENNIS COURTS

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SHEET TITLE

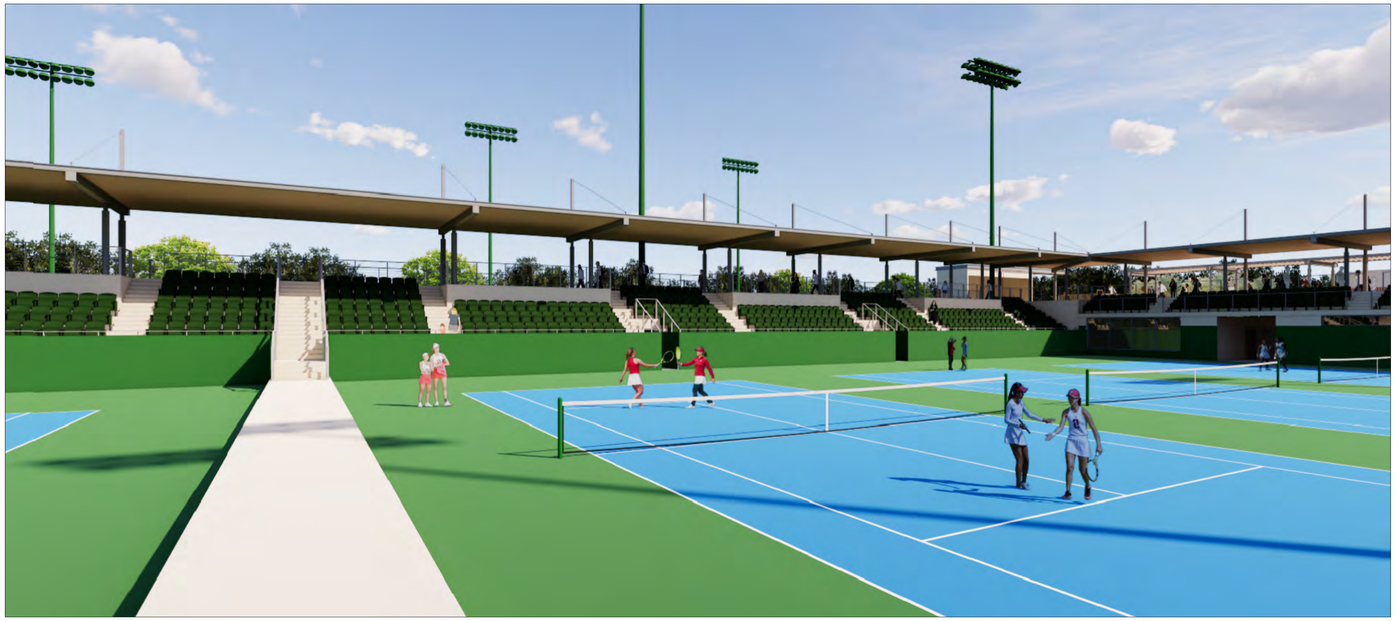
TENNIS CENTER RENDERINGS

SCALE

AS NOTED

SHEET NUMBER

A4-3



2 | VIEW FROM TENNIS COURTS

1 | VIEW FROM CAMPUS DRIVE

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SHEET TITLE

TENNIS CENTER RENDERINGS

SCALE

AS NOTED

SHEET NUMBER

A4-4

Stanford Main Tennis Stadium

Standford, 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
		80'	5	TLC-LED-1500	7.05 kW	B
T3	80'	80'	5	TLC-LED-1500	7.05 kW	B
		80'	5	TLC-LED-1500	7.05 kW	C
T4	80'	80'	5	TLC-LED-1500	7.05 kW	C
T5	70'	70'	5	TLC-LED-1500	7.05 kW	C
		70'	3	TLC-LED-1500	4.23 kW	F
T6	70'	70'	5	TLC-LED-1500	7.05 kW	C
		70'	5	TLC-LED-1500	7.05 kW	B
		70'	3	TLC-LED-1500	4.23 kW	E
		70'	3	TLC-LED-1500	4.23 kW	F
T7	70'	70'	5	TLC-LED-1500	7.05 kW	B
		70'	5	TLC-LED-1500	7.05 kW	A
		70'	3	TLC-LED-1500	4.23 kW	D
		70'	3	TLC-LED-1500	4.23 kW	E
T8	70'	70'	5	TLC-LED-1500	7.05 kW	A
		70'	3	TLC-LED-1500	4.23 kW	D
T9	80'	80'	3	TLC-LED-1500	4.23 kW	D
T10	80'	80'	3	TLC-LED-1500	4.23 kW	E
		80'	3	TLC-LED-1500	4.23 kW	D
T11	80'	80'	3	TLC-LED-1500	4.23 kW	F
		80'	3	TLC-LED-1500	4.23 kW	E
T12	80'	80'	3	TLC-LED-1500	4.23 kW	F
12			***96***		***135.36 kW***	

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

Circuit Summary

Circuit	Description	Load	Fixture Qty
A	Tennis 1-2	28.2 kW	20
B	Tenns 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

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

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

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PROJECT SUMMARY

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STANFORD UNIVERSITY

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Quad/ Bldg. Number: 09-345

KSH 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 POLE LIGHTING EXHIBIT AND PHOTOMETRICS

SCALE

N.T.S.

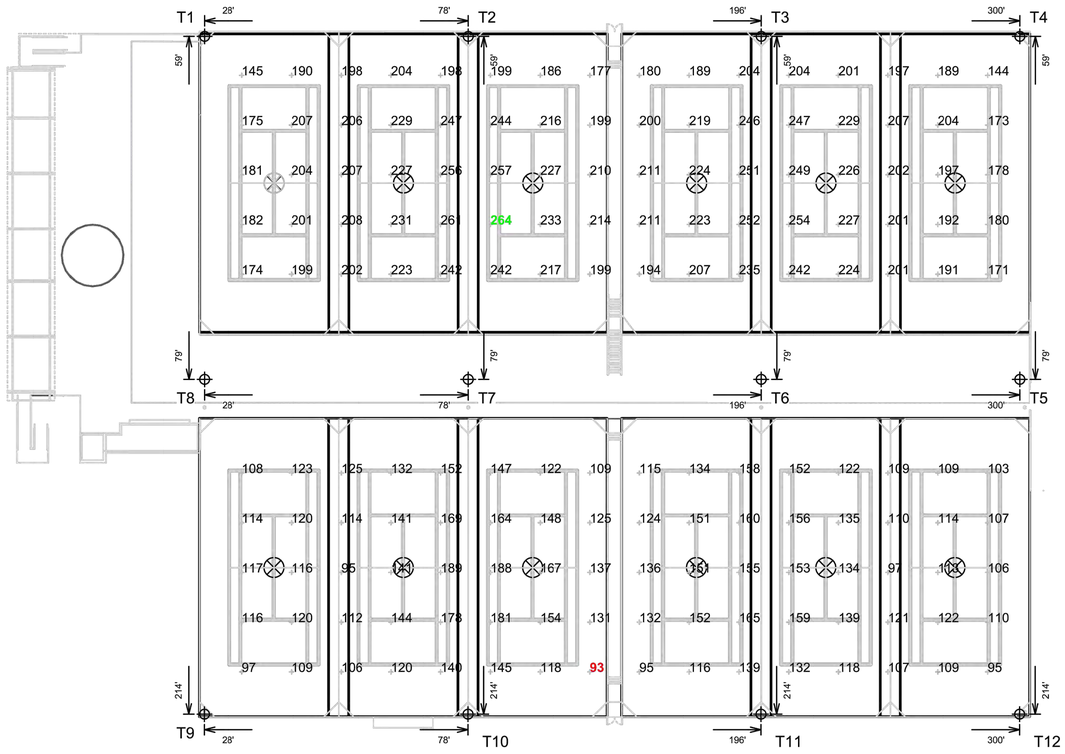
SHEET NUMBER

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



SCALE IN FEET 1 : 50

0' 50' 100'

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

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

Stanford Main Tennis Stadium

Standford, 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.

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ILLUMINATION SUMMARY

STANFORD UNIVERSITY

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KSH ARCHITECTS
KORTH SUNSERI HAGEY

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22012

SHEET TITLE
TENNIS CENTER POLE LIGHTING EXHIBIT AND PHOTOMETRICS

SCALE
N.T.S.

SHEET NUMBER
A5-1

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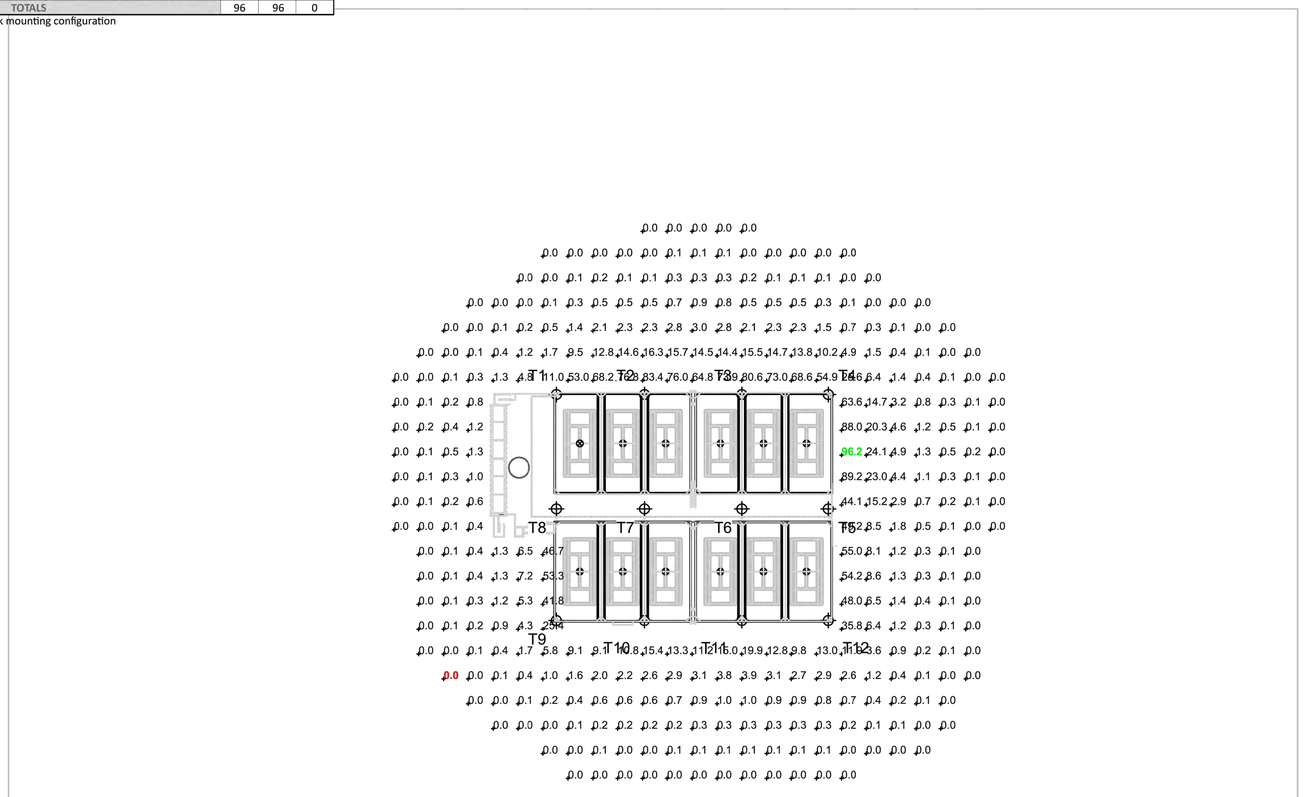
EQUIPMENT LIST FOR AREAS SHOWN

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



SCALE IN FEET 1 : 150

0' 150' 300'

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

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

Stanford Main Tennis Stadium

Standford, CA

GRID SUMMARY

Name:	**Horizontal Blanket Grid**
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY

MAINTAINED HORIZONTAL FOOTCANDLES

	Entire Grid
Scan Average:	**6.45**
Maximum:	96
Minimum:	0
Avg / Min:	6088.99
Max / Min:	**90822.53**
UG (adjacent pts):	9.13
CU:	0.11
No. of Points:	347

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.

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SHEET TITLE
TENNIS CENTER POLE LIGHTING EXHIBIT AND PHOTOMETRICS

SCALE
N.T.S.

SHEET NUMBER
A5-2

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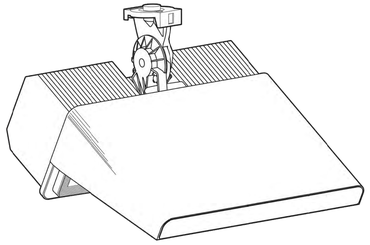
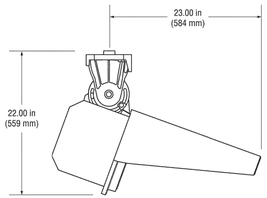


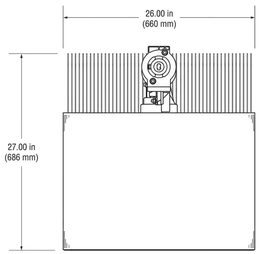
Luminaire Data

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[1]	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.

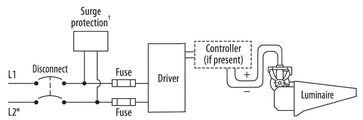
Datasheet: **TLC-LED-1500 Luminaire and Driver**

Driver Data

Electrical Data

Rated wattage[1]	
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)

Typical Wiring



* 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[2]	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.

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STANFORD UNIVERSITY

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SHEET TITLE
TENNIS CENTER POLE LIGHTING CUTSHEETS

SCALE
N.T.S.

SHEET NUMBER
A5-3

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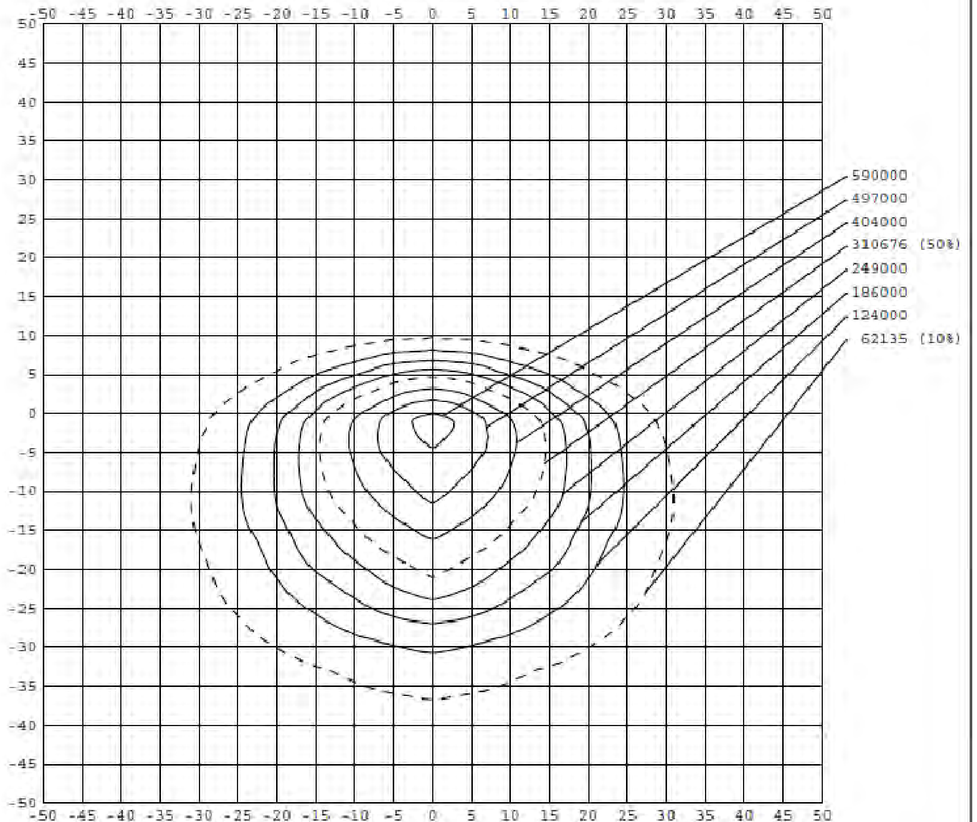
Musco Lighting Photometry Laboratory
Oskaloosa, Iowa

NVLAP Lab Code 200702-0

REPORT NUMBER: MPL03031
ISSUE DATE: 07/06/21
CATALOG NUMBER: L352N_4WYX_ANBCB_30

ISOCANDELA CURVES



1 TLC-LED-1500 FIXTURE

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22012

SHEET TITLE
TENNIS CENTER POLE LIGHTING BEAM PATTERN DIAGRAMS

SCALE
N.T.S.

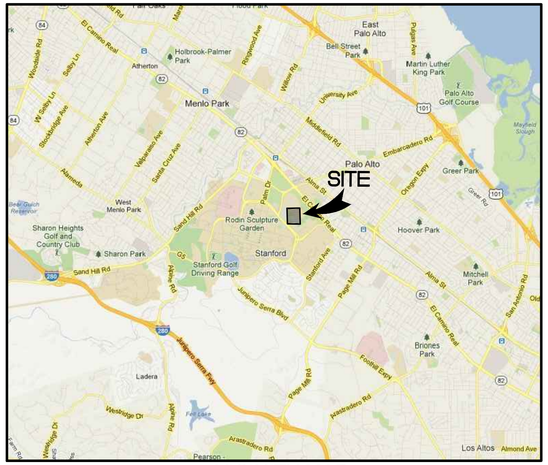
SHEET NUMBER
A5-4

STANFORD UNIVERSITY

VARSITY TENNIS CENTER

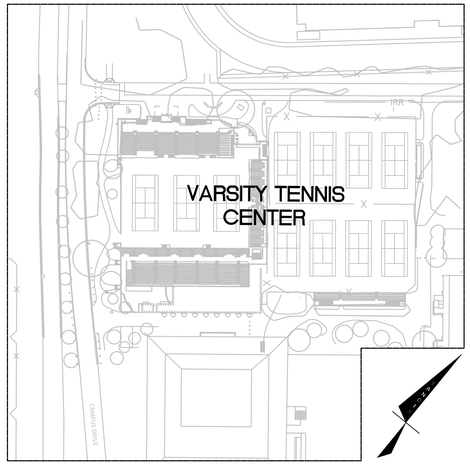
BUILDING 09-345

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

1. *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.*
2. *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.*
3. *CONTRACTOR SHALL MAINTAIN THE EXISTING SITE LIGHTING SYSTEM UNLESS OTHERWISE NOTED.*
4. *CONTRACTOR SHALL COORDINATE ALL UTILITY SHUT-DOWNS WITH THE OWNER'S REPRESENTATIVE.*
5. *ITEMS INDICATED TO BE SALVAGED SHALL BE REMOVED CAREFULLY, CLEANED AND DELIVERED TO THE OWNER. COORDINATE WITH THE OWNER'S REPRESENTATIVE.*
6. *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

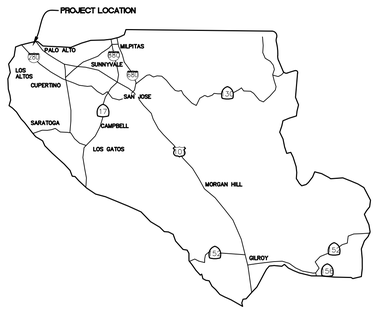
R.C.E. NO. EXPIRATION DATE

COUNTY OF SANTA CLARA
LAND DEVELOPMENT ENGINEERING & SURVEYING

CONSTRUCTION PERMIT NO. _____

GRADING PERMIT NO. _____

ISSUED BY: _____ DATE: _____



COUNTY LOCATION MAP

CIVIL SHEET INDEX

811 Know what's below. Call before you dig.

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
CMP	–	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
LIP	–	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
TYP	–	TYPICAL
UON	–	UNLESS OTHERWISE NOTED
U/G	–	UNDERGROUND
VC	–	VERTICAL CURVE
WM	–	WATER METER
WV	–	WATER VALVE
W	–	WEST
WWF	–	WELDED WIRE FABRIC
W/	–	WITH

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

LEGEND

LEGEND	EXISTING	PROPOSED
SAWCUT AND CONFORM LINE		
RETAINING WALL		
A.C. PAVEMENT		
CONC. VALLEY GUTTER		
CONC. SIDEWALK OR PAD		
6" CURB & GUTTER		
EDGE OF A.C. PAVEMENT	EP	
6" VERTICAL CURB		
CENTER LINE		
SANITARY SEWER MAIN	8" SS	8" SS
STORM DRAIN MAIN	12" SD	15" SD
PERFORATED PIPE		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		
CONDENSATE RETURN	CR	CR
FLOW LINE		
CHAIN LINK FENCE	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 85
SPOT ELEVATION	x 95.94	FG 95.94
DIRECTION OF SLOPE		2:1 1%
GAS METER		GM
GAS VALVE	GV	GV
WATER METER		WM
WATER VALVE	WV	WV
FIRE HYDRANT		
BACK FLOW PREVENTOR		
POST INDICATOR VALVE	PIV	PIV
FIRE DEPARTMENT CONNECTION		
WATER LINE TEE		
CAP AND PLUG END		
AIR RELEASE VALVE		ARV
SIGN		
ACCESSIBLE RAMP		
CONCRETE THRUST BLOCK		
REDUCER		
SANITARY SEWER MANHOLE		
SANITARY SEWER CLEANOUT	SSCO	SSCO
STORM DRAIN MANHOLE		
STORM DRAIN AREA DRAIN		
STORM DRAIN CATCH BASIN	CB	
STORM DRAIN CURB INLET		
STORM DRAIN CLEANOUT	SDCO	SDCO
ELECTROLIER		
JOINT POLE		JP
OVERLAND RELEASE		
CONSTRUCTION DETAIL REFERENCE		15 / C5.2 DETAIL REFERENCE / SHEET REFERENCE

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.

Consulting Engineers & Land Surveyors of California

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

STANFORD UNIVERSITY

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

KSH ARCHITECTS

SANDIS

ISSUES AND REVISIONS

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

PROJECT NUMBER
17007

SHEET TITLE

COVER SHEET

SCALE

NTS

SHEET NUMBER

C-1.0

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 B6-18).

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 EQUIPMENT AND EMISSIONS CONTROL " CLEAN FUEL " WHERE FEASIBLE USE TECHNOLOGY (E.G. CNS 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. 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.

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 HAULED 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 KEYED 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% OF 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
		4,574 CUBIC YARDS FILL
	NET	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 SD8.

13. ALL STORM DRAINAGE STRUCTURES SHALL BE INSTALLED WITH EFFECTIVE ENTRANCE & OUTFALL EROSION CONTROLS E.G. SACKED CONCRETE RIP-RAP. ENERGY DISSIPATERS 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 RESEEDED 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 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 ¾" 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.

TREE REMOVAL NOTES

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/ Bldg. Number: 09-345

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ARCHITECTS

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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

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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 B E 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.

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C-1.2

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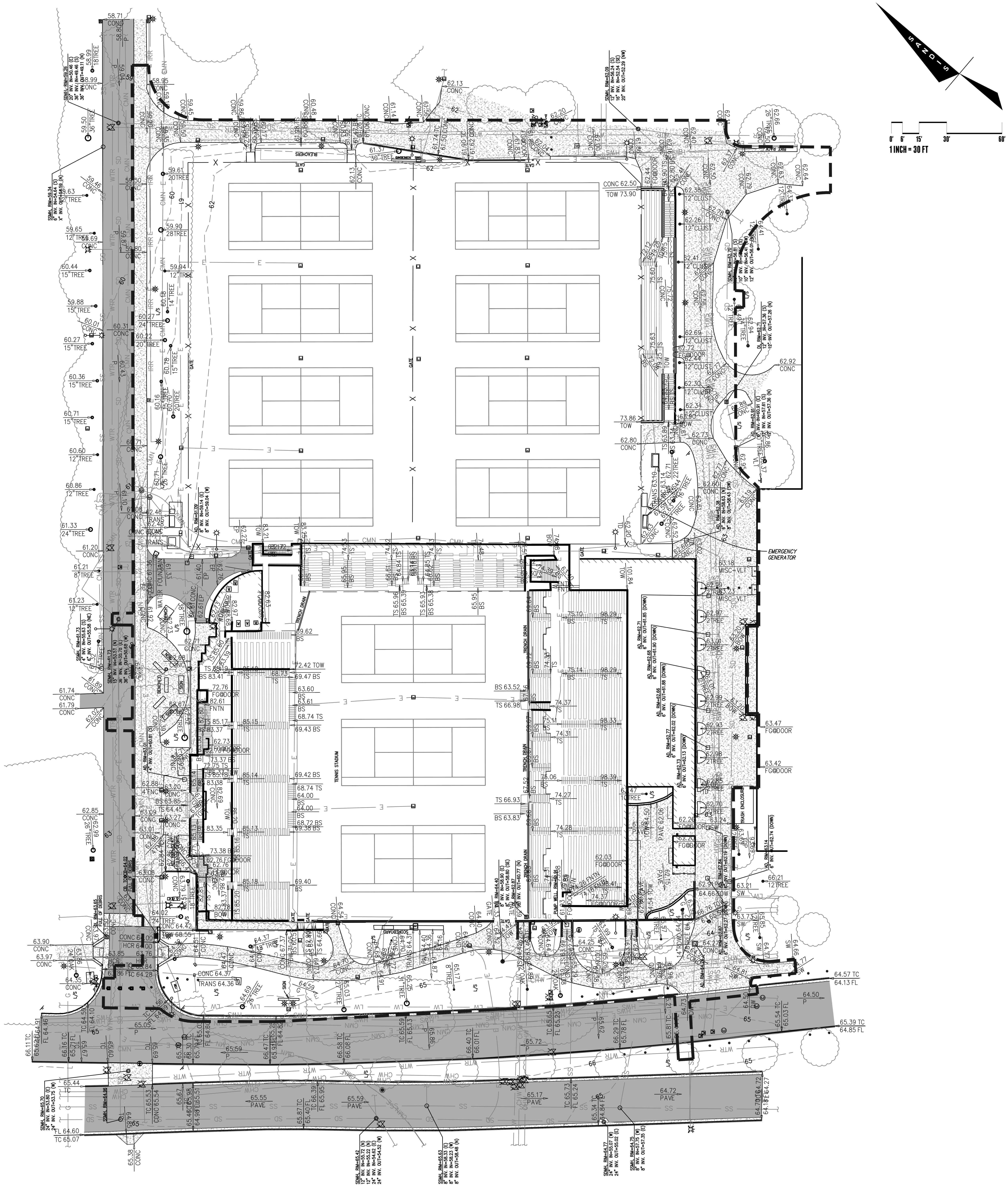

LEGEND

- BUILDING OVERHANG
- EDGE OF PAVEMENT
- CURB LINE
- CURB & GUTTER LINE
- WALL
- CONTOURS (95, 94)
- RAIL
- FLOW LINE
- FENCE LINE (X)
- IRRIGATION WATER (IRR)
- LAKE WATER (LW)
- HOT WATER (HWS)
- CHILLED WATER (CHW)
- STORM DRAIN LINE (SD)
- SANITARY SEWER LINE (SS)
- WATER LINE (WTR)
- NATURAL GAS LINE (G)
- UNDERGROUND ELECTRIC LINE (E)
- COMMUNICATION LINE (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
- POST INDICATOR VALVE (PIV)
- IRRIGATION CONTROL / VALVE BOX
- GAS METER
- GAS VALVE (GV)
- COMMUNICATIONS MANHOLE
- COMMUNICATIONS 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 (197.30 STRIPE, 198.70 CONC, 198.76 BOW, 195.17 TC / 194.76 FL)

ABBREVIATIONS

AD	– AREA DRAIN
BFP	– BACKFLOW PREVENTOR
BLDC	– BUILDING CORNER
BLDL	– BUILDING LINE
BOLL	– BOLLARD
BOW	– BOTTOM OF WALL
BS	– BOTTOM OF STAIR
CHKSHT	– 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
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

1. ALL DISTANCES AND DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF.
2. DATES OF FIELD SURVEY: 08/09/21–08/13/21 AND 08/22/21.
3. 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 S12, WHICH IS A SET 2" 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.

KELLY S. JOHNSON
L.S. NO. 9126

PROFESSIONAL LAND SURVEYOR · KELLY S. JOHNSON · No. 9126 · STATE OF CALIFORNIA

XXXXXXXXXX
DATE

STANFORD UNIVERSITY

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

KSH ARCHITECTS

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

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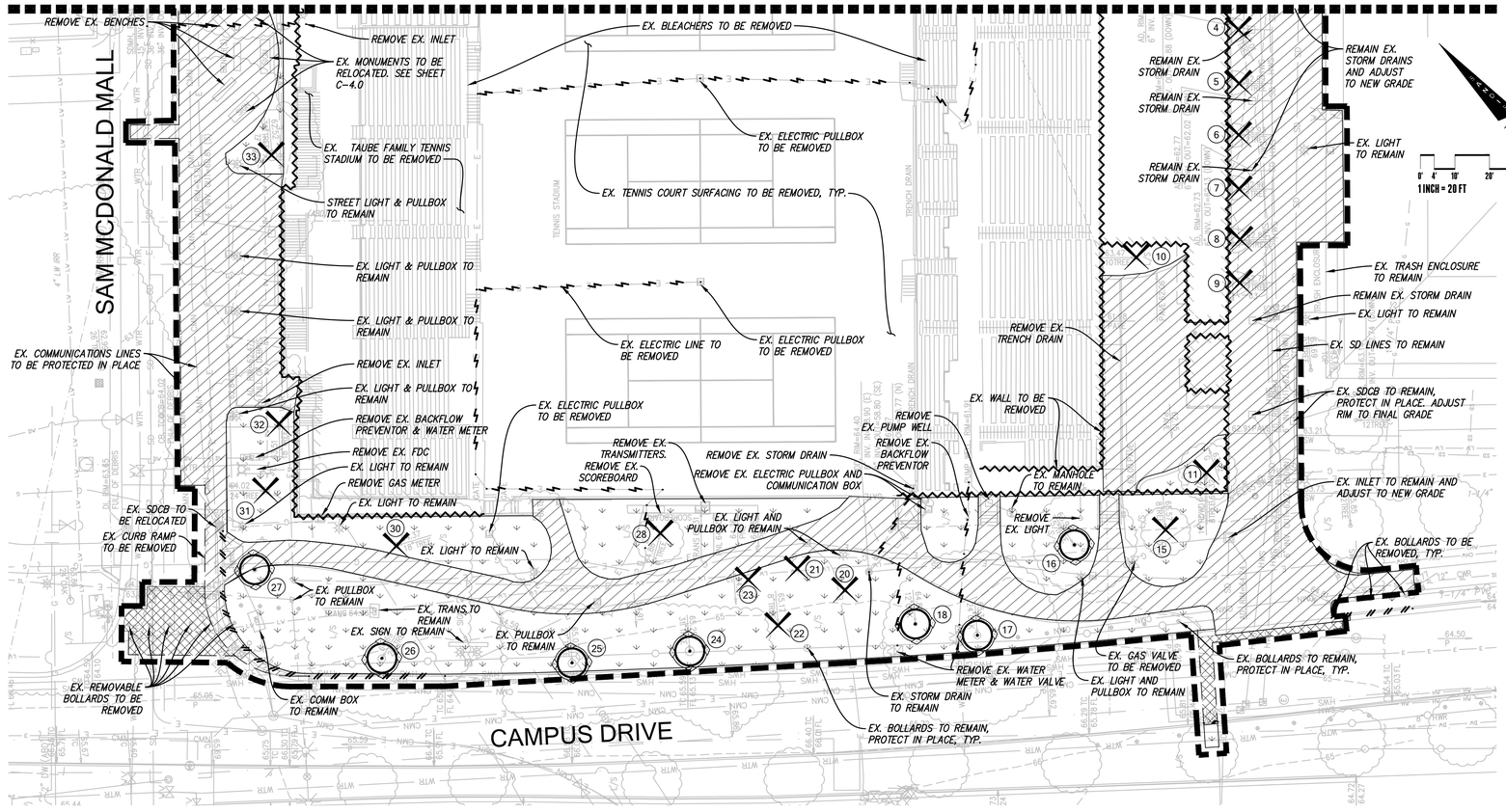


LEGEND

- # — TREE NUMBER SEE TABLE THIS SHEET
- EXISTING TREE TO REMAINS. PROTECT IN PLACE. SEE NOTES ON THIS SHEET. (1 / C-3.0)
- 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.

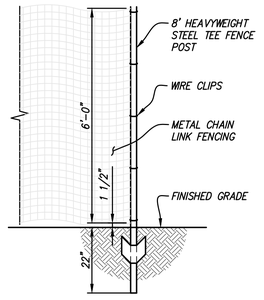
SHEET NOTES

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 TARPS 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.

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 RINSING, 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 TREES' 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.

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.



NOTES:

1. THE DRIPLINE OF EACH TREE TO BE PROTECTED SHALL BE ENCLOSED WITH A 6' HIGH TEMPORARY FENCE. FENCE FABRIC SHALL BE HEAVY DUTY PERFORATATED, 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, WILL ORANGE PLASTIC SNOW FENCING WRAPPED 2" THICK AROUND THE TRUNK BE ALLOWED, AND ONLY AS APPROVED BY AN SGCA.

TREE PROTECTION DETAIL (1)

N.T.S.

TREE DISPOSITION TABLE

	BOTANICAL & COMMON NAME	DIAMETER AT BREAST HEIGHT (IN.)	STATUS (REMOVE/ REMAINS)	PROTECTED STATUS
4	TUSCARORA CRAPE MYRTLE	3	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
5	TUSCARORA CRAPE MYRTLE	3	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
6	TUSCARORA CRAPE MYRTLE	3	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
7	TUSCARORA CRAPE MYRTLE	2	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
8	TUSCARORA CRAPE MYRTLE	3	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
9	TUSCARORA 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.

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STANFORD UNIVERSITY

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

KSH ARCHITECTS

SANDIS

ISSUES AND REVISIONS

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

PROJECT NUMBER
17007

SHEET TITLE

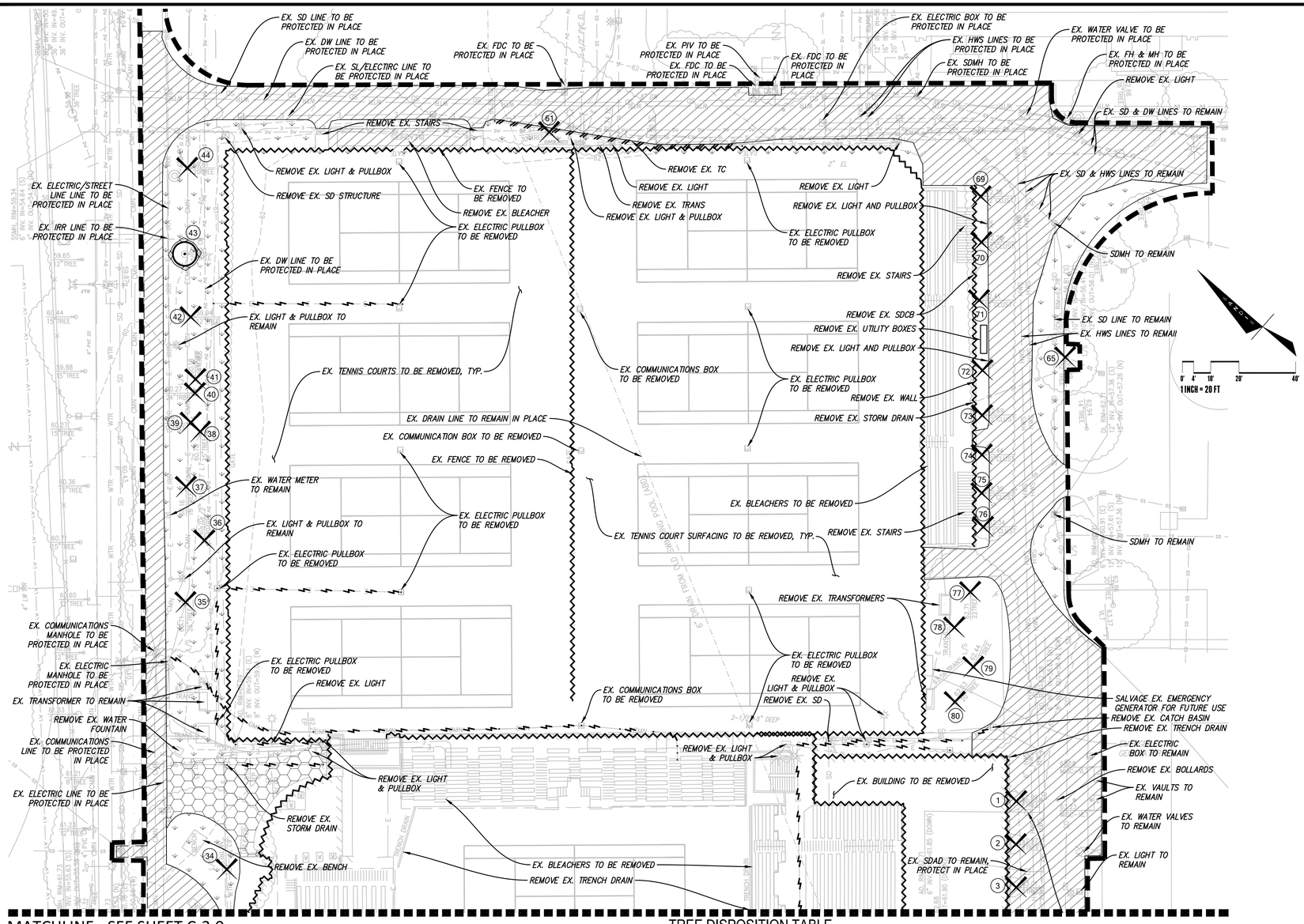
DEMOLITION PLAN

SCALE

1"=30'

SHEET NUMBER

C-3.0



MATCHLINE - SEE SHEET C-3.0

LEGEND

- TREE NUMBER SEE TABLE THIS SHEET
- EXISTING TREE TO REMAINS. PROTECT IN PLACE. SEE NOTES ON THIS SHEET. (1 / C-3.0)
- 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
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- 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

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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 TARPS 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.

TREE DISPOSITION TABLE

TREE TAG	BOTANICAL & COMMON NAME	DIAMETER AT BREAST HEIGHT (IN.)	STATUS (REMOVE/ REMAINS)	PROTECTED STATUS
1	TUSCARORA CRAPE MYRTLE	2	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
2	TUSCARORA CRAPE MYRTLE	2	REMOVE	NOT PROTECTED, SEE CONDITION A BELOW
3	TUSCARORA 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 BREAST 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.				

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STANFORD UNIVERSITY

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

KSH ARCHITECTS

SANDIS

ISSUES AND REVISIONS

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

PROJECT NUMBER
17007

SHEET TITLE

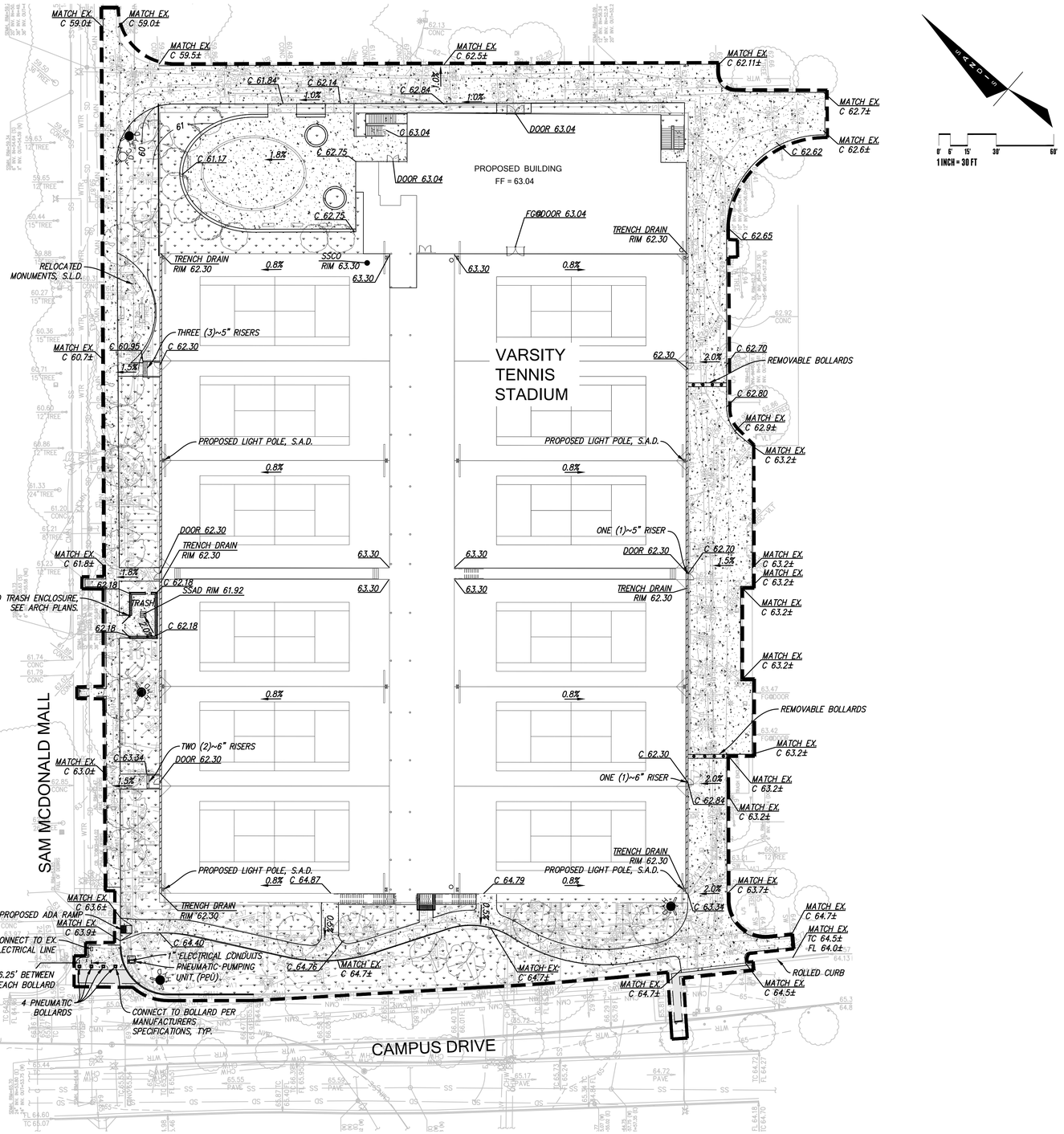
DEMOLITION PLAN

SCALE

1"=30'

SHEET NUMBER

C-3.1



LEGEND

- LIMIT OF WORK
- SAWCUT LINE
- 59 / 60 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 ¼" 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.

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	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

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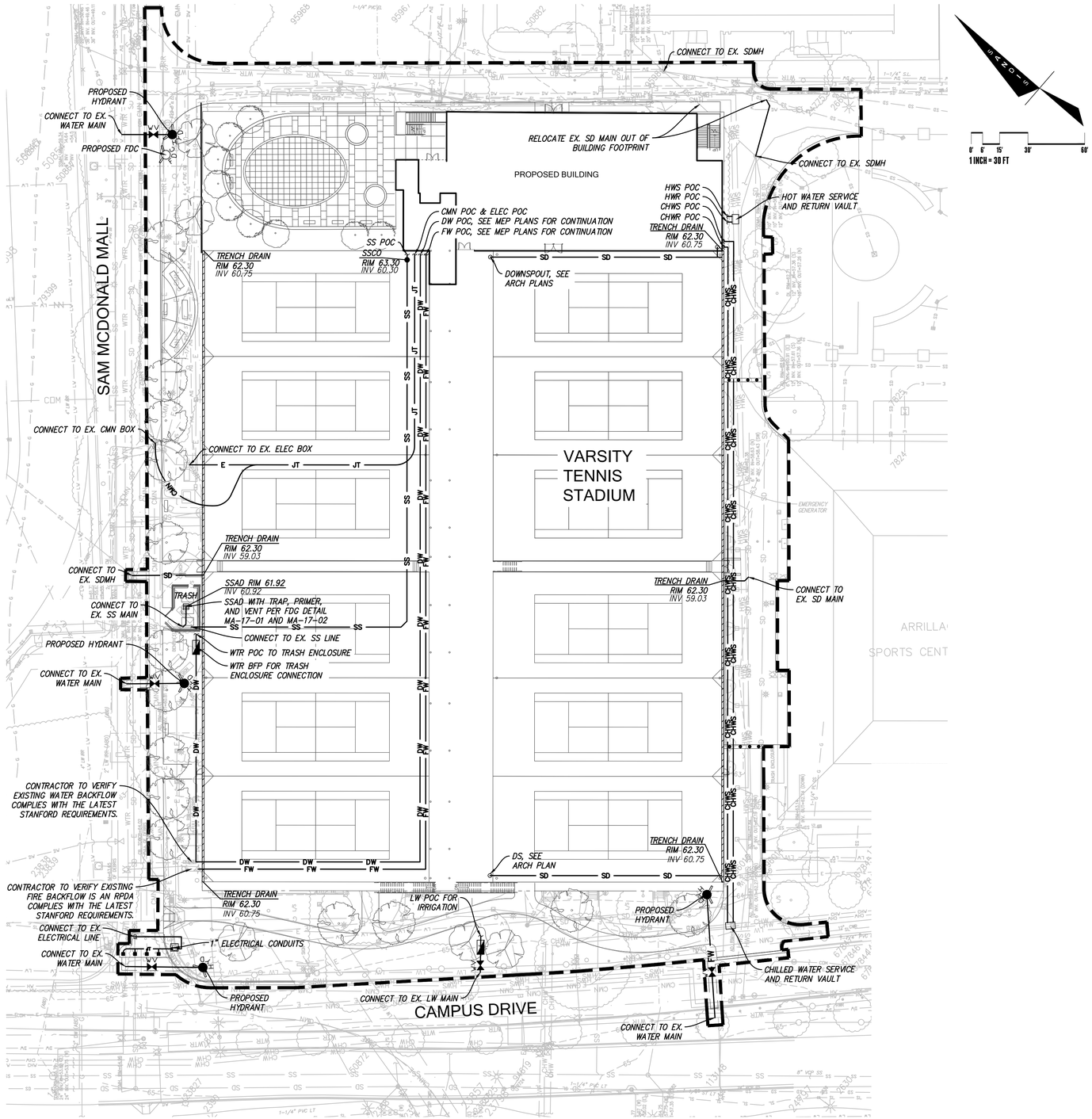

LEGEND

- 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 PERVIOUS 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.

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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
C-5.0

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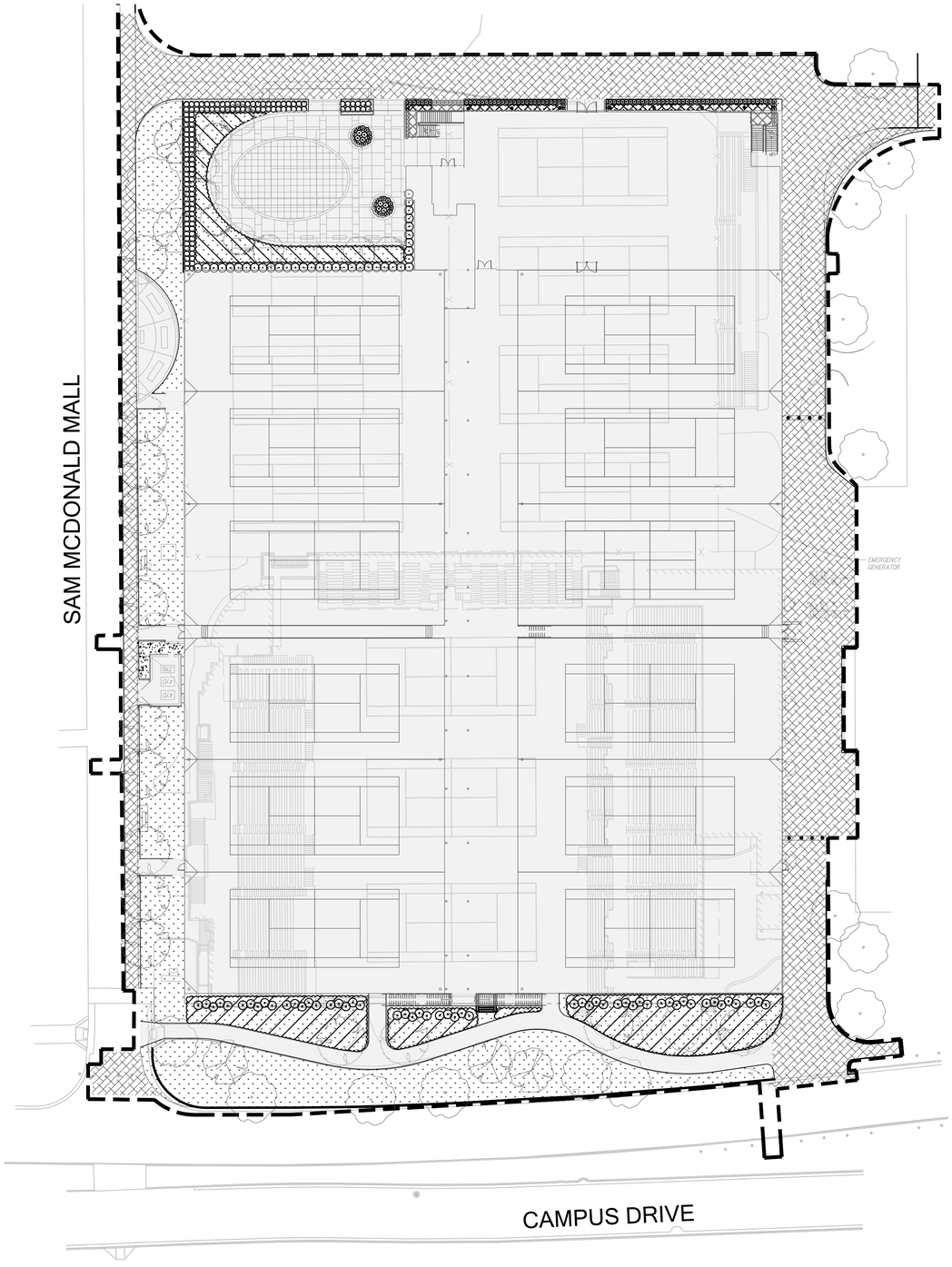

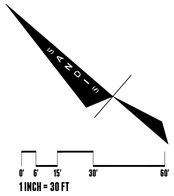

STORMWATER MANAGEMENT PLAN LEGEND

- 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

	EXISITNG	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)	NON-VEHICULAR (SF)
IN-LIEU CREDIT USED3 (SF)	23,159	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.

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PROJECT NUMBER
17007

SHEET TITLE

STORMWATER MANAGEMENT PLAN

SCALE

1"=30'

SHEET NUMBER

C-6.0

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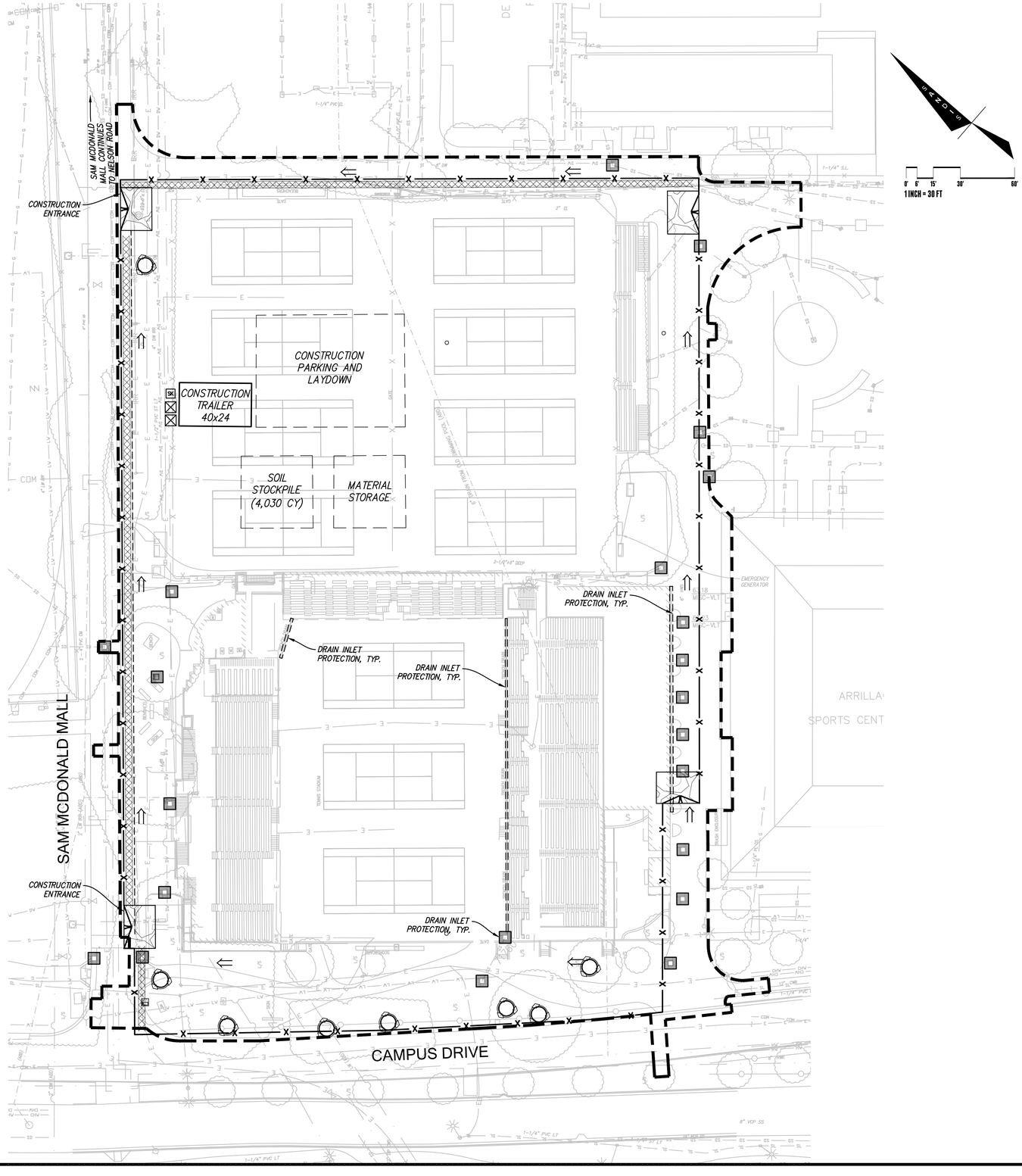

LEGEND

- CONSTRUCTION ENTRANCE (3 / C-7.1)
- CONCRETE WASHOUT (2 / C-7.2)
- SK — SPILL KIT
- PORTABLE RESTROOM
- CONSTRUCTION TRAILER — CONSTRUCTION TRAILER (DURATION 18 MONTHS)
- OVERLAND RELEASE POINT
- CONSTRUCTION FENCE WITH STRAW WATTLE (1 / C-7.1)
- DRAIN INLET PROTECTION (6 / C-7.2)
- TREE PROTECTION FENCING (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.

L. RUNOFF THAT HAS CONTACTED AMENDED SOIL AREAS SHALL NOT BE ALLOWED TO LEAVE THE SITE OR ENTER THE STORM DRAIN SYSTEM.

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PROJECT NUMBER
17007

SHEET TITLE

EROSION CONTROL PLAN

SCALE

1"=30'

SHEET NUMBER

C-7.0

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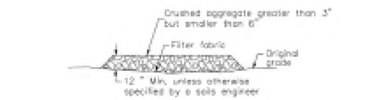
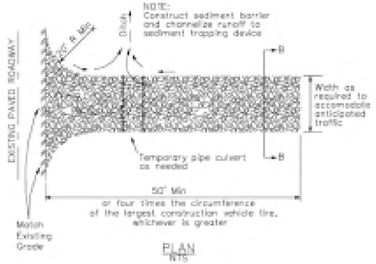
3 Stabilized Construction Entrance/Exit

CASQA Detail TC-1



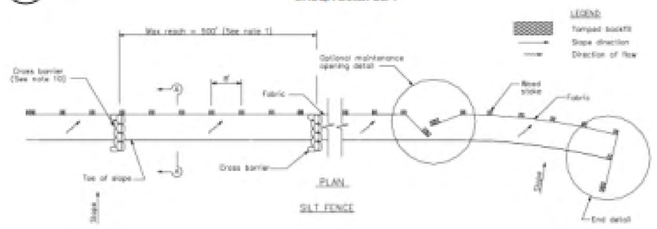
SECTION B–B
NTS



PLAN
NTS

1 Silt Fence

CASQA Detail SE-1

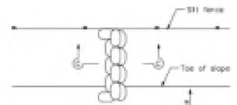


PLAN

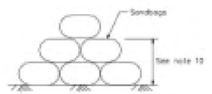
SILT FENCE

NOTES

1. Construct the length of each reach so that the change in base elevation along the reach does not exceed 1/3 the height of the linear barrier, in no case shall the reach length exceed 500'.
2. The last 8'–0" of fence shall be turned up slope.
3. Stake dimensions are nominal.
4. Dimension may vary to fit field condition.
5. Stakes shall be spaced at 8'–0" maximum and shall be positioned on downstream side of fence.
6. Stakes to overlap and fence fabric to fold around each stake one full turn. Secure fabric to stake with 4 staples.
7. Stakes shall be driven tightly together to prevent potential flow-through of sediment at joint. The tops of the stakes shall be secured with wire.
8. For end stake, fence fabric shall be folded around two stakes one full turn and secured with 4 staples.
9. Minimum 4 staples per stake. Dimensions shown are typical.
10. Cross barriers shall be a minimum of 1/3 and a maximum of 1/2 the height of the linear barrier.
11. Maintenance openings shall be constructed in a manner to ensure sediment remains behind silt fence.
12. Joining sections shall not be placed at sump locations.
13. Sandbag rows and layers shall be offset to eliminate gaps.



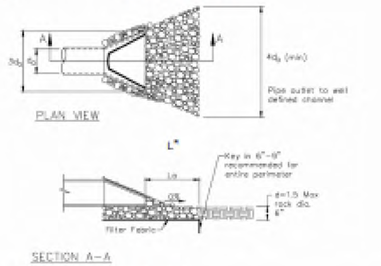
CROSS BARRIER DETAIL



SECTION C–C

4 Velocity Dissipation Devices

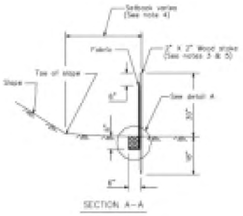
CASQA Detail EC-10

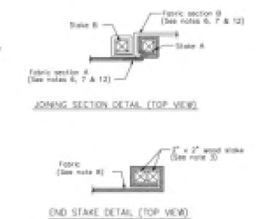


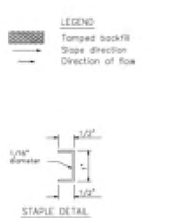
* Length per ABAG Design Standards

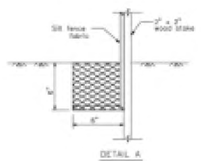
2 Silt Fence

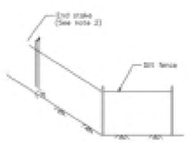
CASQA Detail SE-1

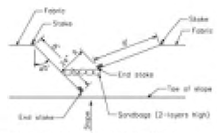












Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003.
Available from www.cabmphandbooks.com.

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 C3) or latest.
2. Hazardous Waste Management: Provide proper handling and disposal of hazardous wastes by a licensed hazardous waste material hauler. 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 C9) 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 washed 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 reschedule 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 haulers 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/exit 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 rolos 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(tarps, straw bales, silt fences, ect.) 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.

Project Information

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

BMP-1

STANFORD UNIVERSITY

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

KSH 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
C-7.1

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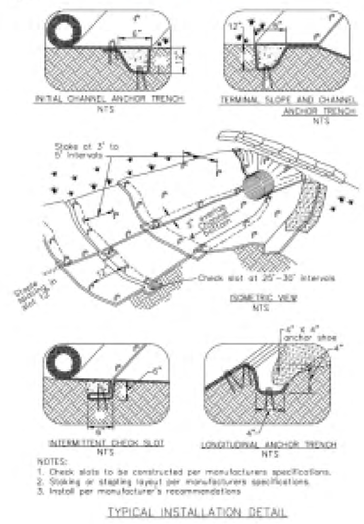
7 Geotextiles and Mats

CASQA Detail EC-7



NOTES:
1. Check slots to be constructed per manufacturers specifications.
2. Staking or stapling layout per manufacturers specifications.
3. Install per manufacturer's recommendations

TYPICAL INSTALLATION DETAIL

5 Geotextiles and Mats

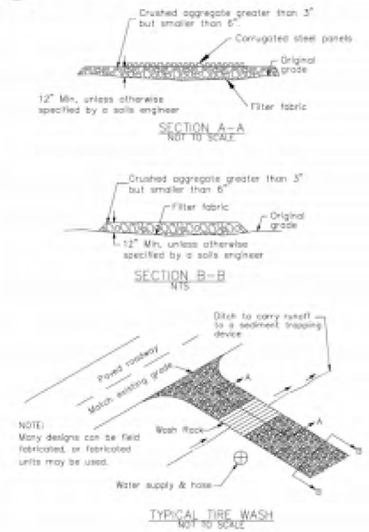
CASQA Detail EC-7

NOTES:
1. Slope surface shall be free of rocks, clods, sticks and grass. Mats/blankets shall have good soil contact.
2. Lay blankets loosely and stake or staple to maintain direct contact with the soil. Do not stretch.
3. Install per manufacturer's recommendations

TYPICAL INSTALLATION DETAIL

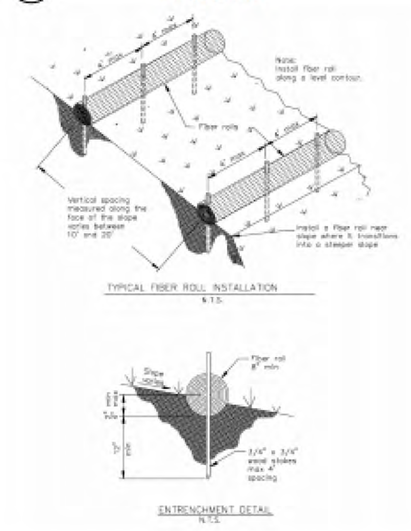
3 Entrance/Outlet Tire Wash

CASQA Detail TC-3



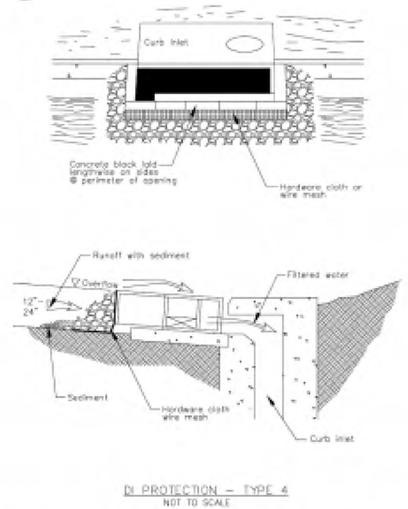
1 Fiber Rolls

CASQA Detail SE-5



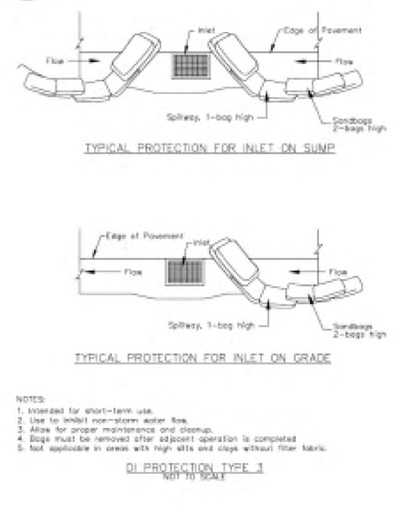
8 Storm Drain Inlet Protection

CASQA Detail SE-10



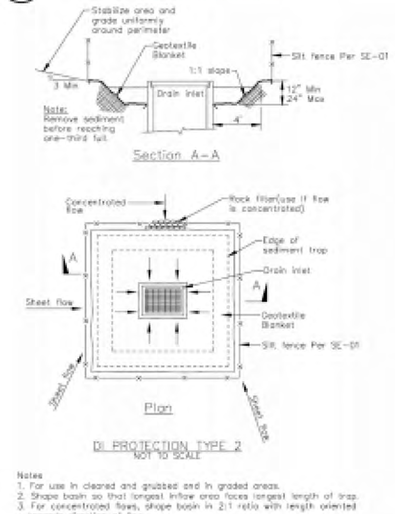
6 Storm Drain Inlet Protection

CASQA Detail SE-10



4 Storm Drain Inlet Protection

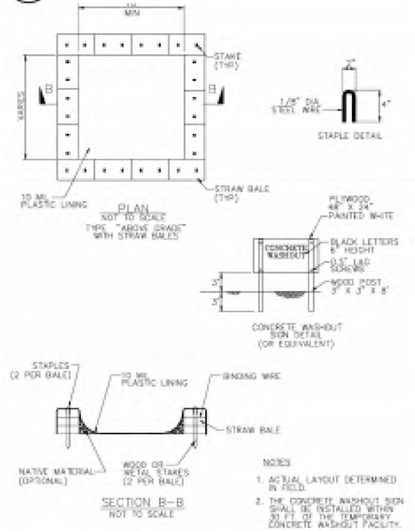
CASQA Detail SE-10



Notes
1. For use in cleared and grubbed and in graded areas.
2. Shape basin so that longest inflow area faces longest length of trap.
3. For concentrated flows, shape basin in 2:1 ratio with length oriented towards direction of flow.

2 Concrete Waste Management

CASQA Detail WM-8



NOTES
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

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

Project Information

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
COUNTY BMP NOTES

SCALE
1"=30'

SHEET NUMBER
C-7.2

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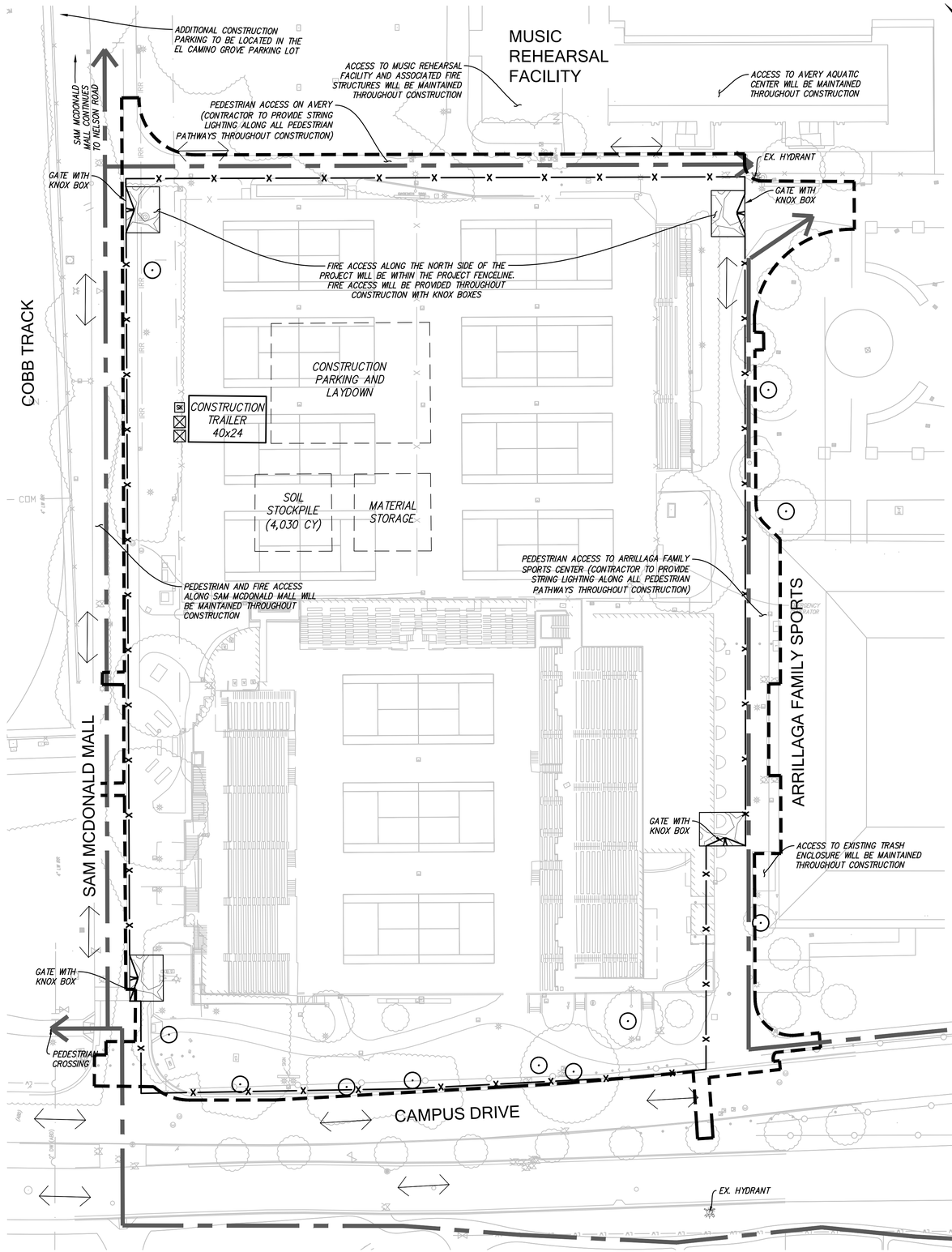


CONSTRUCTION NOTES:

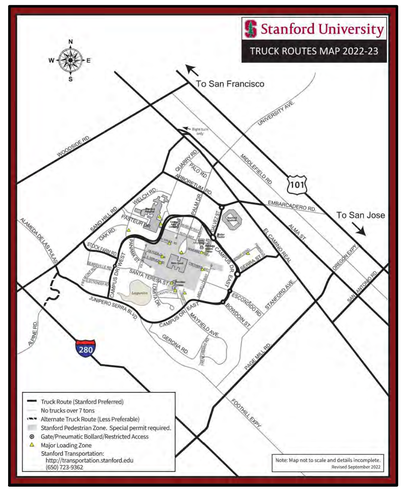
1. THE BAY AREA QUALITY MANAGEMENT DISTRICT (BAAQMD) HAS IDENTIFIED A SET OF FEASIBLE PMO CONTROL MEASURES FOR ALL CONSTRUCTION ACTIVITIES. THESE CONTROL MEASURES, AS PREVIOUSLY REQUIRED IN THE PROGRAM EIR, SHALL BE ADHERED TO DURING ALL CONSTRUCTION ACTIVITIES. (MITIGATION MEASURE AQ.1)
   - A. WATER ALL ACTIVE CONSTRUCTION AREA 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 MATERIALS 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, SAND BAGS 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 EXITING TRUCKS, OR WASH OFF THE TIRES OF TRACKS OF ALL TRUCKS AND EQUIPMENT LEAVING THE SITE.
   - L. SUSPEND EXCAVATION AND GRADING ACTIVITY WHEN WINDS (INSTANTANEOUS GUSTS) EXCEED 25 MPH.
2. ALL CONSTRUCTION CONTRACTORS SHALL PROPERLY MAINTAIN THE EQUIPMENT WHERE FEASIBLE. USE "CLEAN FUEL" EQUIPMENT AND EMISSIONS CONTROL TECHNOLOGY (E.G. ONG 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).
3. CONSTRUCTION DELIVERY TIMES / ROUTES
   - A. 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.
   - B. 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.
4. 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.
   - A. MECHANICAL EQUIPMENT WITHIN 50 FEET OF A RESIDENCE SHALL BE ACOUSTICALLY ENGINEERED.
   - B. 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.
   - C. ALL OPERATIONAL NOISE SOURCES SHALL COMPLY WITH THE COUNTY NOISE ORDINANCE.
   - D. THE CONTRACTOR SHALL COORDINATE PLANNED CLASSROOM RELOCATIONS PRIOR TO DEMOLITION OR SITE PREPARATION.
   - E. 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.

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 — CONSTRUCTION TRAILER (DURATION 18 MONTHS)
- PEDESTRIAN CROSSING

TRUCK ROUTES MAP



NOTES:

1. STANFORD SHALL BE RESPONSIBLE FOR PRUNING AND TRIMMING THE ACCESS FIRE LANE WITH A VERTICAL CLEARANCE OF 13 FEET 6 INCHES.
2. 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'.
3. THE EMERGENCY ACCESS SHALL MAINTAIN A 20 FT MIN. WIDTH UNDER ALL WEATHER CONDITIONS CAPABLE OF SUPPORTING UP TO 75,000 LBS.

STANFORD UNIVERSITY

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

KSH 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 SITE LOGISTICS AND SAFETY PLAN

SCALE

1"=30'

SHEET NUMBER

C-8.0

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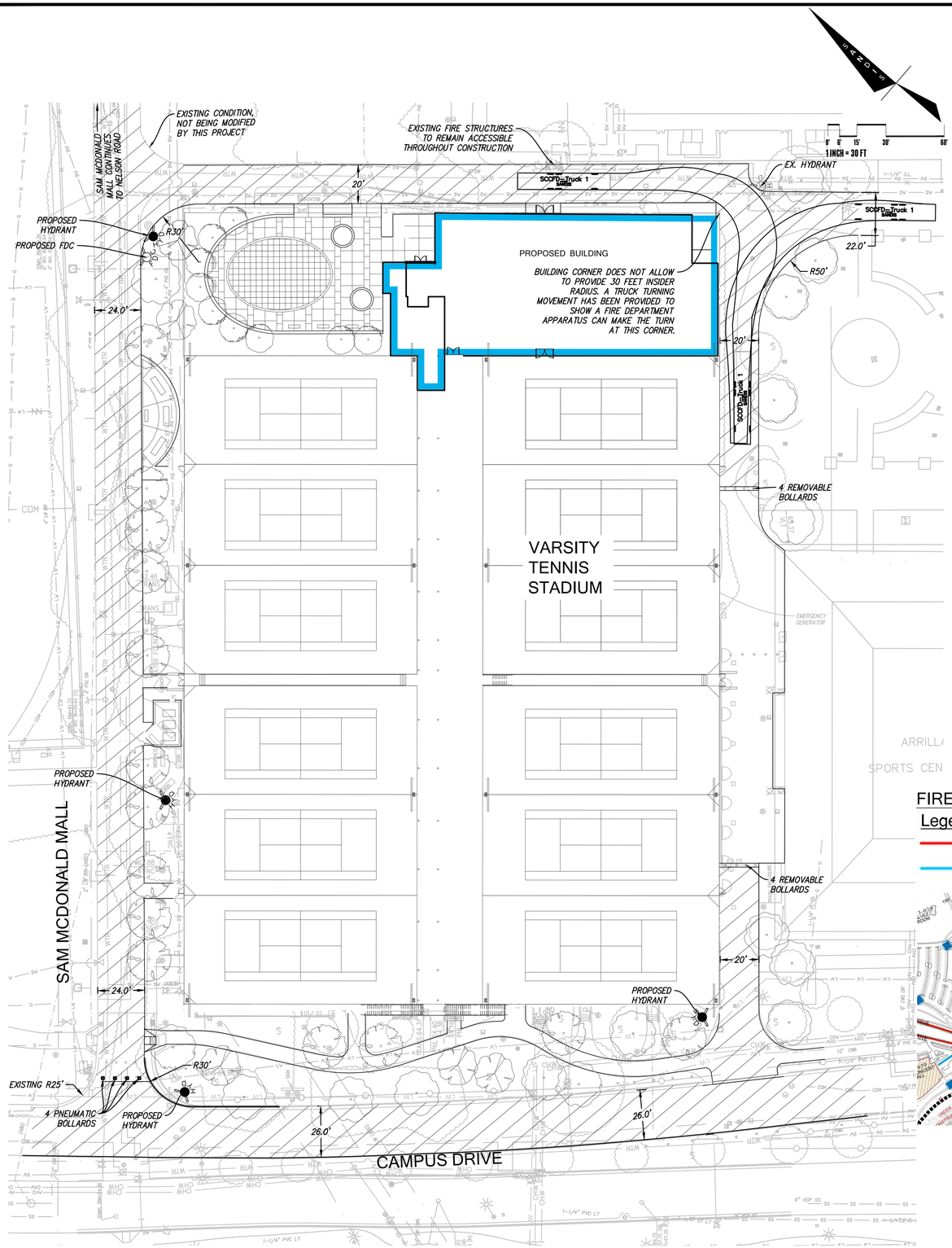


Stanford | Environmental Health & Safety

FIRE MARSHAL'S OFFICE

1/24/2023

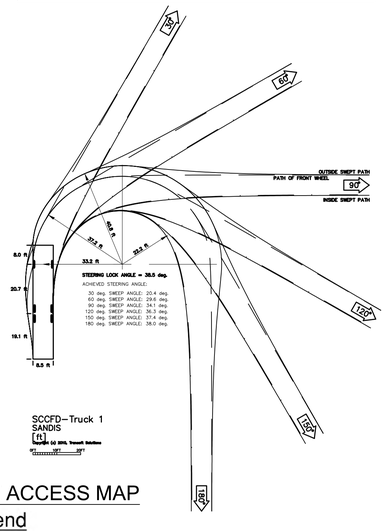
From Joe Miller
SUFMO

To Sandy Louie
Project Manager

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

Hydrant Flow Test	
Location	Sam Mc Donald Mall
Hydrant ID	2-626H
Test Date/time	1/20/23
Static Pressure	96 psi
Residual Pressure	88 psi
Flow	1,367 gpm +/- 50 gpm
Calculated Fire Flow at 20 psi	4,612 gpm +/- 500 gpm

Fire Marshal's Office
480 Oak Rd, Stanford, CA 94305 T 650.723.0448 F 650.725.3468

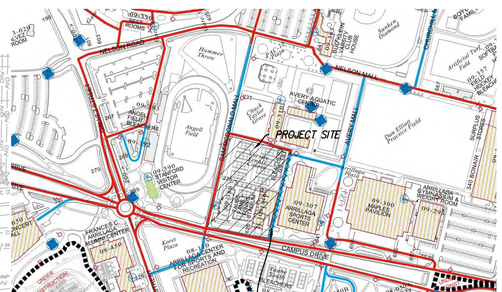


FIRE ACCESS MAP

Legend

Primary Access

Secondary Access



LEGEND:

EXISTING FIRE HYDRANT TO REMAIN

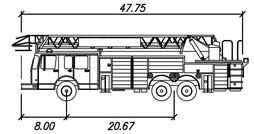
PROPOSED FIRE HYDRANT

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



FIRE Truck 1	feet
Width	: 8.50
Track	: 8.50
Lock to Lock Time	: 6.0
Steering Angle	: 38.5

NOTES

1. STANFORD SHALL BE RESPONSIBLE FOR PRUNING AND TRIMMING THE ACCESS FIRE LANE WITH A VERTICAL CLEARANCE OF 13 FEET 6 INCHES.
2. 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'.
3. 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 ½" (114.3 MM) AND 2–2 ½" (63.5 MM) OUTLETS.

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

FIRE PROTECTION NOTES

1. FIRE APPARATUS ROADWAYS, INCLUDING PUBLIC OR PRIVATE STREETS OR ROADS USED FOR VEHICLE ACCESS SHALL BE INSTALLED AND IN SERVICE PRIOR TO CONSTRUCTION.
2. 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.
3. FIRE PROTECTION WATER SERVING ALL HYDRANTS SHALL BE PROVIDED AS SOON AS COMBUSTIBLE MATERIAL ARRIVES ON SITE.
4. 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.
5. FIRE HYDRANTS AND FIRE APPLIANCES (FIRE DEPARTMENT CONNECTIONS AND POST INDICATOR VALVES) SHALL BE CLEARLY ACCESSIBLE AND FREE FROM OBSTRUCTION.
6. 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.

STANFORD UNIVERSITY

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

KSH 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 ACCESS

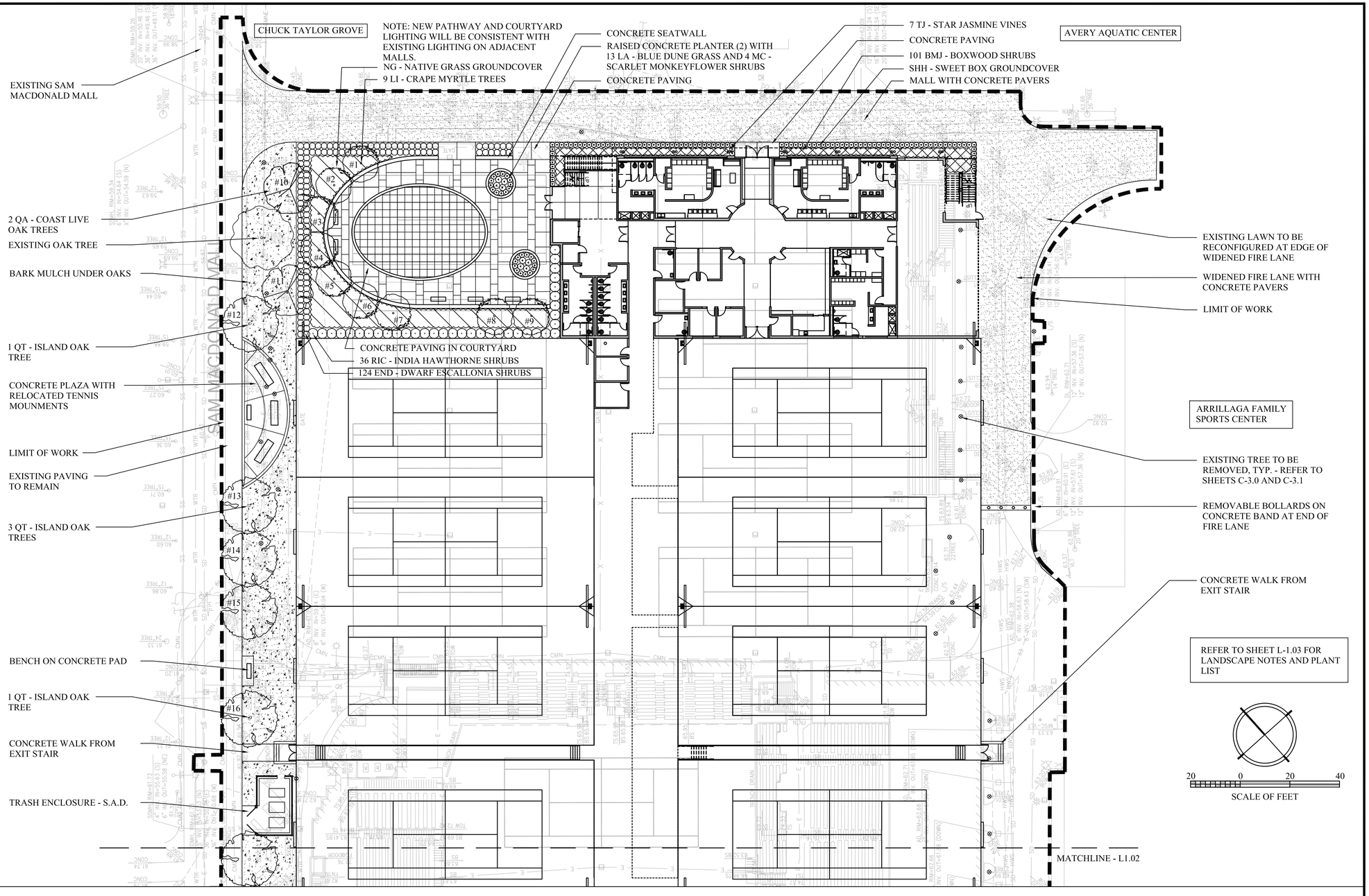
SCALE

1"=30'

SHEET NUMBER

C-9.0

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

STANFORD UNIVERSITY

KSH ARCHITECTS

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99 Mississippi Street
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San Francisco, CA 94107
T: 415-252-7075

REGISTERED LANDSCAPE ARCHITECT
STEPHEN J. WHEELER
No. 2678
Signature
03/31/24
Renewal Date
Date
STATE OF CALIFORNIA

ISSUES AND REVISIONS

NO.	DATE	DESCRIPTION
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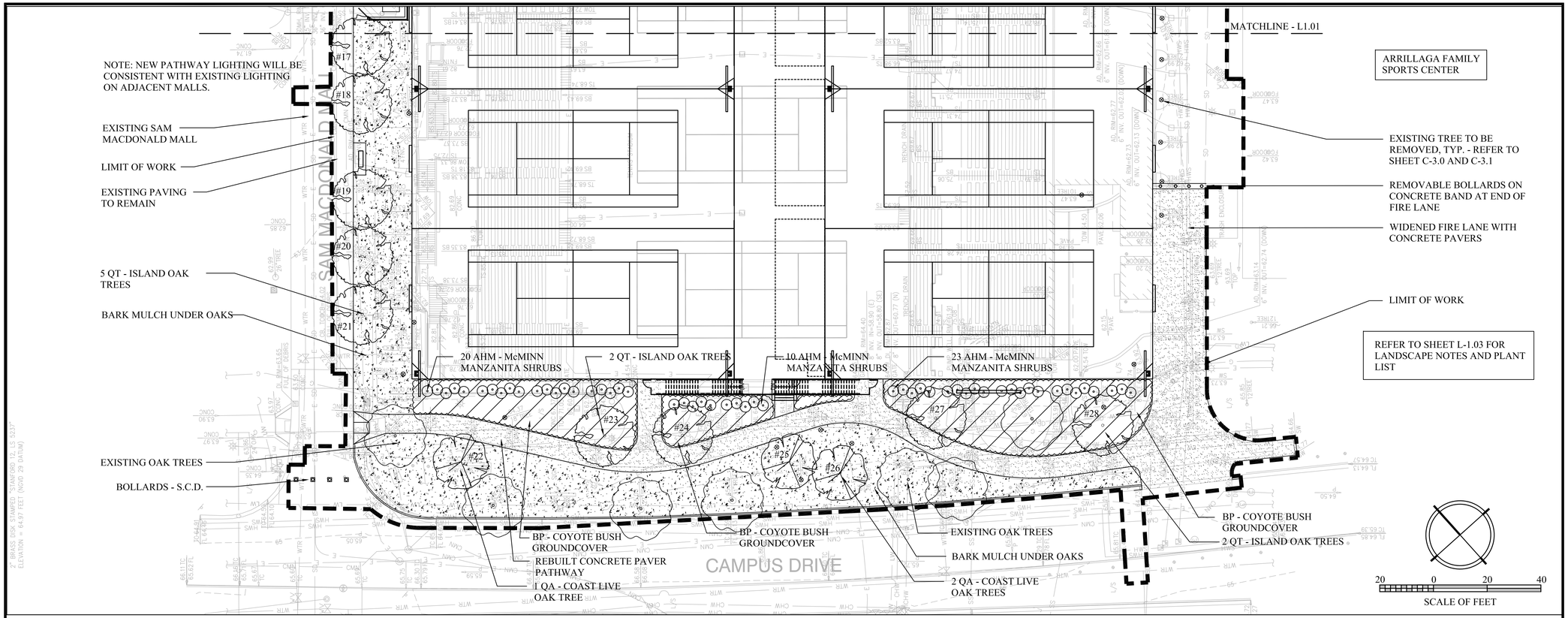
PROJECT NUMBER

SHEET TITLE
LANDSCAPE PLAN

SCALE
1" = 20'-0"

SHEET NUMBER

L-1.01



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REGISTERED LANDSCAPE ARCHITECT STEPHEN J. WHEELER No. 2678 Signature 03/31/24 Renewal Date Date STATE OF CALIFORNIA

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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 GROUNDCOVER AND A REBUILT CONCRETE PAVER 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 GROUNDCOVER 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. GROUNDCOVER 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 USEAGE

AREA	*WCOLS WATER USEAGE*	
+/- 8,290 SF	LOW - 85%	TREES, SHRUBS AND GROUNDCOVER
+/- 1,493 SF	MEDIUM - 15%	SHRUBS
+/- 9,783 SF	TOTAL AREA	

BROOKWATER
IRRIGATION CONSULTANTS
480 ST. JOHN STREET, SUITE 220
PLEASANTON, CALIFORNIA 94566
TEL 925.855.0417 FAX 925.855.0357
E-MAIL JANET@BROOKWATER.COM

PLANT LIST

TREES

KEY	*QTY*	*SYMBOL*	*BOTANICAL NAME*	*COMMON NAME*	*SIZE*	*SPACING*	*WATER USAGE*
	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 JASMINIODIES	STAR JASMINE STAKED VINE	5 GAL		M

GROUNDCOVER

	-	BP	BACCHARIS PILULARIS 'PIGEON POINT'	DWARF COYOTE BUSH	1 GAL	48" O.C.	L
	-	NG	NATIVE NO MOW GRASS GROUNDCOVER		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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LANDSCAPE NOTES

SCALE

SHEET NUMBER
L-1.03