

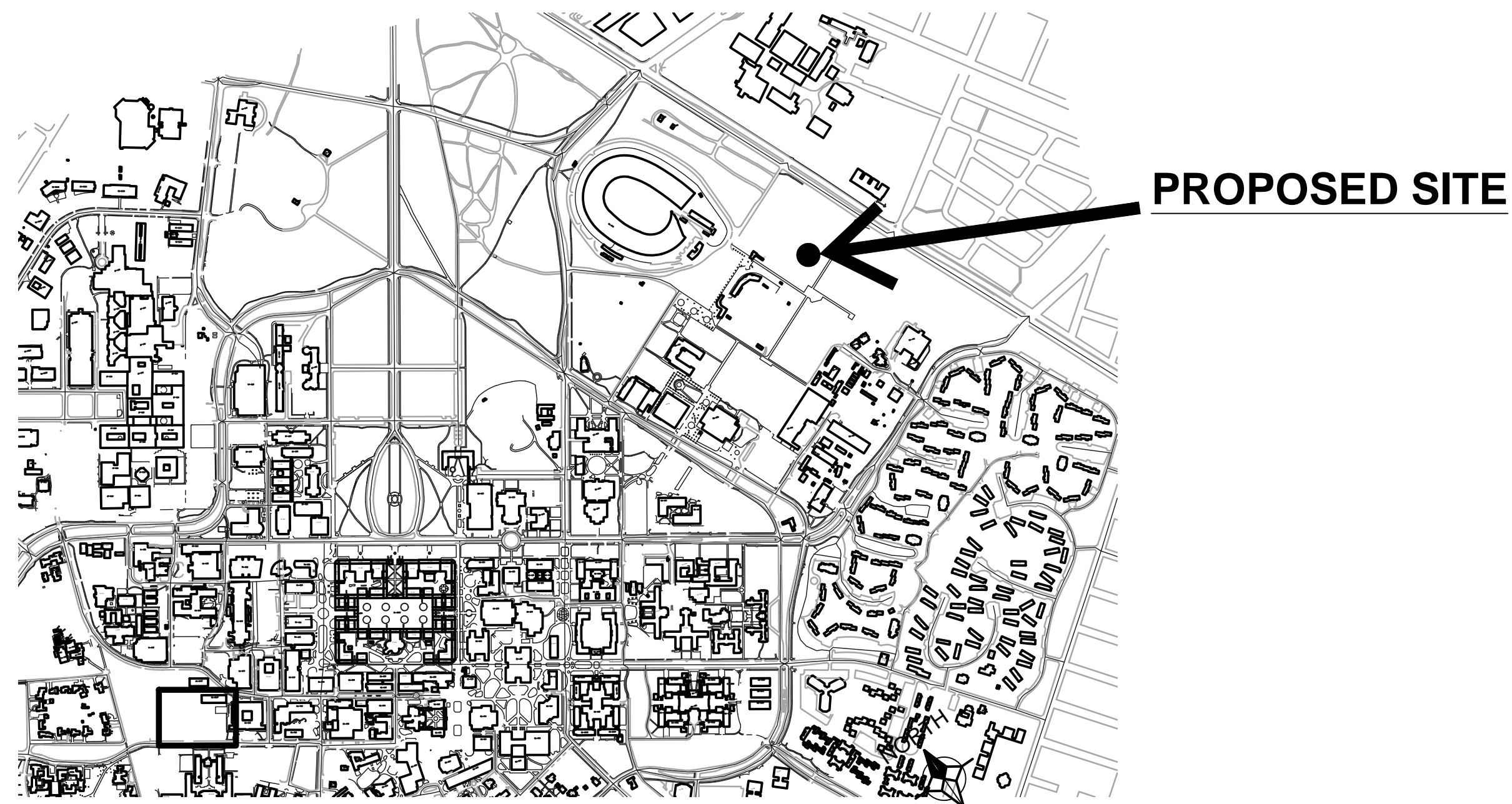
ASA SUBMITTAL SET

STANFORD UNIVERSITY LACROSSE PRACTICE FIELD

PROJECT 200184

(09-379, 657 MASTERS MALL)

DRAWING STATUS: ASA SUBMITTAL
 SUBMITTAL DATE: 03/06/2024
 APPROVAL DATE:
 ASA COMPLIANCE RE-SUBMITTAL
 PERMIT APPLICATION
 CONSTRUCTION PERMIT
 RECORD DRAWINGS



VICINITY MAP

DRAWING INDEX

- PL0.0 TITLE SHEET
- PL1.2 GUP INFORMATION MAP
- C-1.0 COUNTY COVER SHEET
- C-1.1 CONSTRUCTION NOTES
- C-2.0 TOPOGRAPHIC SURVEY
- C-3.0 DEMOLITION/TREE REMOVAL PLAN
- C-3.1 DEMOLITION/TREE REMOVAL PLAN
- C-4.0 GRADING & DRAINAGE PLAN
- C-5.0 UTILITY PLAN
- C-6.0 EROSION CONTROL PLAN
- C-6.1 COUNTY BMP NOTES
- C-6.2 COUNTY BMP NOTES
- C-7.0 FIRE ACCESS PLAN
- C-8.0 STORMWATER MANAGEMENT PLAN
- C-9.0 CONSTRUCTION SITE/LOGISTICS SAFETY PLAN
- L-1.01 LANDSCAPE PLAN
- L-1.02 LANDSCAPE NOTES
- E-1 PROJECT SUMMARY
- E-2 ILLUMINATION SUMMARY
- E-3 ILLUMINATION SUMMARY
- E-4 ILLUMINATION SUMMARY
- E-5 ILLUMINATION SUMMARY
- E-6 ILLUMINATION SUMMARY
- E-7 EQUIPMENT LAYOUT
- E-8 LIGHTPOLE FOUNDATION & ASSEMBLY DETAIL

SITE DATA INFORMATION

GENERAL

APN: 142-04-036
 PARCEL SIZE: 580.15 AC
 DEVELOPMENT DISTRICT: DAPER AND ADMINISTRATIVE
 BUILDING/QUAD: 09-379
 LAND USE DESIGNATION: ACADEMIC CAMPUS
 SITE AREA: 139,275 SF

PERCENTAGE OF SITE AREA:

LANDSCAPE: 97.6 %
 HARDSCAPE: 2.4 %

EXCAVATION TABLE

LOCATION	CUT (C.Y.)	FILL (C.Y.)	VERT. DEPTH
RESIDENCE	0	0	
ACCESSORY STRUCTURE	0	0	
POOL/HARDSCAPE	0	0	
LANDSCAPE	1619	1488	2
DRIVEWAY	0	0	
OFF SITE IMPROVEMENTS	0	0	
TOTAL	1619	1488	2

PROJECT DESCRIPTION:

THIS PROJECT INCLUDES CONSTRUCTION OF A NEW LACROSSE FIELD. THE SCOPE OF WORK INCLUDES SITE GRADING, INSTALLATION OF UTILITIES, REMOVAL OF EXISTING TREES AND INSTALLATION OF FENCING.

PROJECT MANAGER:

Mark Bonino
 560 Fremont Road
 Stanford, CA 94305
 Telephone: (650) 723-0022
 mbonino@stanford.edu

DEPARTMENT OF PROJECT MANAGEMENT
 340 Bonair Siding Road
 Stanford, CA 94304
 TELEPHONE (650) 723-0022 FAX (650) 723-7444

TITLE SHEET

STANFORD UNIVERSITY
 LACROSSE PRACTICE FIELD

DATE: 03/18/2024

SCALE: N/A

PL0.0

COUNTY OF SANTA CLARA

General Construction Specifications

GENERAL CONDITIONS

- ALL CONSTRUCTION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE SOILS AND/OR GEOTECHNICAL REPORT PREPARED BY SILICON VALLEY SOIL ENGINEERING AND DATED XXXX 202X. 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.
- 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.
- 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.
- 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.
- DEVELOPER SHALL REMOVE OR TRIM ALL TREES TO PROVIDE AN UNOBSTRUCTED FIFTEEN (15) FOOT VERTICAL CLEARANCE FOR ROADWAY AREA.
- 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 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.
- DEVELOPER SHALL PROVIDE ADEQUATE DUST CONTROL AS REQUIRED BY THE COUNTY INSPECTOR.
- 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.
- 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 BURIAL SITE SHALL BE PERMITTED WITHOUT THE AUTHORIZATION OF THE LAND DEVELOPMENT OFFICE IN ACCORD WITH PROVISIONS OF THIS ORDINANCE (COUNTY ORDINANCE CODE SECTION 86-18).
- THESE PLANS ARE FOR THE WORK DESCRIBED IN THE SCOPE OF WORK ONLY. A SEPARATE PERMIT WILL BE REQUIRED FOR THE SEPTIC LINE CONSTRUCTION.
- ANY DEVIATION FROM THESE APPROVED PLANS SHALL BE APPROVED IN WRITING BY THE COUNTY ENGINEER PRIOR TO CONSTRUCTION.

CONSTRUCTION STAKING

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

- CONTRACTOR SHALL NOTIFY PERMIT INSPECTION UNIT, SANTA CLARA COUNTY PRIOR TO COMMENCING WORK AND FOR FINAL INSPECTION OF WORK AND SITE.
- THE COUNTY REQUIRES A MINIMUM OF 24 HOURS ADVANCE NOTICE FOR GENERAL INSPECTION, 48 HOURS FOR ASPHALT CONCRETE INSPECTION.
- 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 SUPERINTENDING 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.
- 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.
- THE CONTRACTOR SHALL PROVIDE TO THE COUNTY CONSTRUCTION INSPECTOR WITH PAD ELEVATION AND LOCATION CERTIFICATES, PREPARED BY THE PROJECT ENGINEER OR LAND SURVEYOR, PRIOR TO COMMENCEMENT OF THE BUILDING FOUNDATION.

SITE PREPARATION (CLEARING AND GRUBBING)

- EXISTING TREES AUTHORIZED FOR REMOVAL, ROOTS, AND FOREIGN MATERIAL IN AREAS TO BE IMPROVED WILL BE REMOVED TO AN AUTHORIZED DISPOSAL SITE AS FOLLOWS:
 - TO A MINIMUM DEPTH OF TWO FEET BELOW THE FINISHED GRADE OF PROPOSED ROADWAYS (EITHER PRIVATE OR TO BE DEDICATED TO PUBLIC USE)
 - FROM AREAS AFFECTED BY THE PROPOSED GRADING EXCEPT WHERE NOTED ON THE PLANS.
- 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

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

RETAINING WALLS

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

GRADING

- EXCAVATED MATERIAL SHALL BE PLACED IN THE FILL AREAS DESIGNATED OR SHALL BE HAULED AWAY FROM THE SITE TO A COUNTY APPROVED DISPOSAL SITE. WHERE FILL MATERIAL IS TO BE PLACED ON NATURAL GROUND, IT 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 KEPT 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.
- EXCESS CUT MATERIAL SHALL NOT BE SPREAD OR STOCKPILED ON THE SITE.
- 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.
- NO ORGANIC MATERIAL SHALL BE PLACED IN ANY FILL. NO TREES SHALL BE REMOVED OUTSIDE OF CUT, FILL OR ROADWAY AREAS.
- THE UPPER 6" OF SUBGRADE BELOW DRIVEWAY ACCESS ROAD OR PARKING AREA SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY.
- MAXIMUM CUT SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL. MAXIMUM FILL SLOPE SHALL BE 2 HORIZONTAL TO 1 VERTICAL.

LOCATION	CUT (C.Y.)	FILL (C.Y.)	VERT. DEPTH
RESIDENCE	0	0	0
ACCESSORY	0	0	0
POOL/HARDSCAPE	0	0	0
LANDSCAPE	1619	1488	2
DRIVEWAY	0	0	0
IMPROVEMENTS	0	0	0
TOTAL	1619	1488	2

- NOTE: FILL VOLUMES INCLUDE 10% SHRINKAGE.
- EXCESS MATERIAL SHALL BE OFF HAULED TO A COUNTY APPROVED DUMP SITE.
- NOTIFY YOURS ENGINEER TWO (2) DAYS PRIOR TO COMMENCEMENT OF ANY GRADING WORK TO COORDINATE THE WORK IN THE FIELD.
 - ALL MATERIALS FOR FILL MATERIALS SHOULD BE APPROVED BY THE SOILS ENGINEER BEFORE IT IS BROUGHT TO THE SITE.
 - THE UPPER 6" OF THE SUBGRADE SOIL SHALL BE SCARIFIED, MOISTURE CONDITIONED AND COMPACTED TO A MINIMUM RELATIVE COMPACTION OF 95%
 - ALL AGGREGATE BASE MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% RELATIVE COMPACTION.
 - 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.
 - 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.
 - GRADING WORK BETWEEN OCTOBER 15TH AND APRIL 15TH IS AT THE DISCRETION OF THE SANTA CLARA COUNTY GRADING OFFICIAL.
 - TOTAL DISTURBED AREA FOR THE PROJECT 139,275 SF.
 - VOID NO PENDING.
 - THE INSPECTOR MAY VERIFY THAT A VALID NOTICE OF INTENT (NOI) HAS BEEN ISSUED BY THE STATE AND THAT A CURRENT AND UP TO DATE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS AVAILABLE ON SITE.

TREE PROTECTION

- FOR ALL TREES TO BE RETAINED WITH A CANOPY IN THE DEVELOPMENT AREA OR INTERFACES WITH THE LIMITS OF GRADING FOR ALL PROPOSED DEVELOPMENT ON SITE, THE TREE SHALL BE PROTECTED BY THE PLACEMENT OF RIGID TREE PROTECTIVE FENCING, CONSISTENT WITH THE COUNTY INTEGRATED LANDSCAPE GUIDELINES, AND INCLUDE THE FOLLOWING:
 - FENCING SHOULD BE PLACED ALONG THE OUTSIDE EDGE OF THE DRIFLINE OF THE TREE OR GROVE OF TREES.
 - THE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE CONSTRUCTION PERIOD AND SHALL BE INSPECTED PERIODICALLY FOR DAMAGE AND PROPER FUNCTION.
 - FENCING SHALL BE REPAIRED, AS NECESSARY, TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES.
 - SIGNAGE STATING, "WARNING--THIS FENCING SHALL NOT BE REMOVED WITHOUT PERMISSION FROM THE SANTA CLARA COUNTY PLANNING OFFICE (408) 299-5770, COUNTY OF SANTA CLARA TREE PROTECTION MEASURES MAY BE FOUND AT <http://www.sccplanning.gov>." SHALL BE PLACED ON THE TREE PROTECTIVE FENCING UNTIL FINAL OCCUPANCY.
- PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY, TREE PROTECTIVE FENCING SHALL BE SECURELY IN PLACE AND INSPECTED BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR.
- SEE EXISTING TREE PROTECTION DETAILS FOR MORE INFORMATION.

ACCESS ROADS AND DRIVEWAYS

- 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).
- 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.
- THE OWNER AND PRIME CONTRACTOR ARE RESPONSIBLE FOR MAINTAINING PROJECT SITE ACCESS AND NEIGHBORHOOD ACCESS FOR EMERGENCY VEHICLES AND LOCAL RESIDENTS.
- 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.
- ALL WORK IN THE COUNTY ROAD RIGHT-OF-WAY REQUIRES AN ENCROACHMENT PERMIT FROM THE ROADS AND AIRPORTS DEPARTMENT. EACH INDIVIDUAL ACTIVITY REQUIRES A SEPARATE PERMIT - I.E. CABLE, ELECTRICAL, GAS, SEWER, WATER, RETAINING WALLS, DRIVEWAY APPROACHES, FENCES, LANDSCAPING, TREE REMOVAL, STORM DRAINAGE IMPROVEMENTS, ETC.

STREET LIGHTING

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

SANITARY SEWER

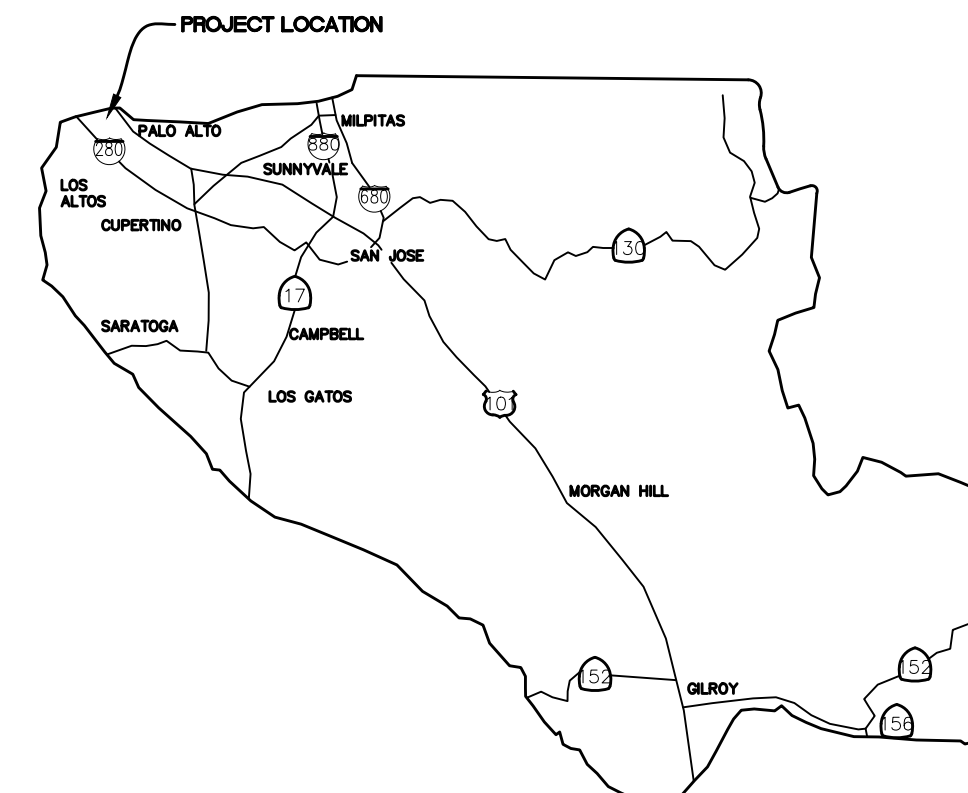
- THE SANITARY SEWER AND WATER UTILITIES SHOWN ON THESE PLANS ARE NOT PART OF THIS GRADING PERMIT AND ARE SHOWN FOR REFERENCE ONLY.
- ALL MATERIALS AND METHODS OF CONSTRUCTION OF SANITARY SEWERS SHALL CONFORM TO THE SPECIFICATIONS OF THE JURISDICTION INVOLVED. INSPECTION OF SANITARY SEWER WORK SHALL BE DONE BY SAID JURISDICTION.

PORTLAND CEMENT CONCRETE

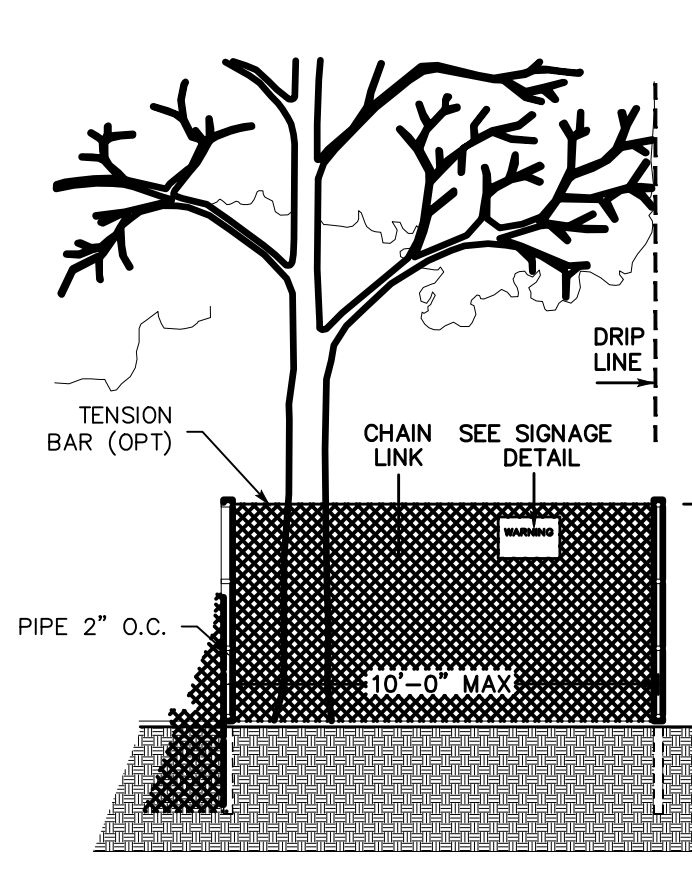
- CONCRETE USED FOR STRUCTURAL PURPOSES SHALL BE CLASS "A" (6 SACK PER CUBIC YARD) AS SPECIFIED IN THE STATE STANDARD SPECIFICATIONS. CONCRETE PLACED MUST DEVELOP A MINIMUM STRENGTH FACTOR OF 2800 PSI IN A SEVEN-DAY PERIOD. THE CONCRETE MIX DESIGN SHALL BE UNDER THE CONTINUAL CONTROL OF THE COUNTY INSPECTOR.

AIR QUALITY, LANDSCAPING AND EROSION CONTROL

- WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST THREE DAILY.
- COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD.
- PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS TO ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES.
- SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.
- SWEEP STREETS (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS. THE USE OF DRY POWDER SWEEPING IS PROHIBITED.
- 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.
- ALL VEHICLE SPEEDS ON UNPAVED ROADS SHALL BE LIMITED TO 15 MILES PER HOUR.
- 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.
- 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 REQUIREMENT OBTAIN AN ENCROACHMENT PERMIT FROM ROADS DEPARTMENT OR OTHER APPLICABLE AGENCY IF REQUIRED.
 - 15 MILES PER HOUR (MPH) SPEED LIMIT
 - 5 MINUTES MAXIMUM IDLING TIME OF VEHICLES
 - 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 COMPLAINT HOTLINE OF 1-800-354-6367.
- ALL FILL SITES SHALL BE COMPACTED AND LEFT IN A SMOOTH AND FIRM CONDITION CAPABLE OF WITHSTANDING WEATHERING.
- 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.
- ALL DITCHES SHALL BE LINED PER COUNTY STANDARD SDB.
- STORM DRAINAGE STRUCTURES SHALL BE INSTALLED WITH EFFECTIVE ENTRANCE & OUTFALL EROSION CONTROLS (E.G. SACKED CONCRETE RIP-RAP. ENERGY DISSIPATORS SHALL BE INSTALLED AT ALL DITCH OUTFALLS. WHERE OUTFALLS ARE NOT INTO AN EXISTING CREEK OR WATER COURSE, RUNOFF SHALL BE RELEASED TO SHEET FLOW.
- PRIOR TO GRADING COMPLETION AND RELEASE OF THE BOND, ALL GRADED AREAS SHALL BE RESEDED IN CONFORMANCE WITH THE COUNTY GRADING ORDINANCE TO MINIMIZE THE VISUAL IMPACTS OF THE GRADE SLOPES AND REDUCE THE POTENTIAL FOR EROSION OF THE SUBJECT SITE.
- 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 BY THE COUNTY INSPECTION OFFICE.
- THE OWNER SHALL PREPARE AND PRESENT A WINTERIZATION REPORT TO THE COUNTY INSPECTOR FOR REVIEW PRIOR TO OCTOBER 15TH OF EVERY YEAR.
- THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL INSTALL AND MAINTAIN CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPs) ON THE PROJECT SITE AND WITHIN THE SANTA CLARA COUNTY ROAD RIGHT-OF-WAY THROUGHOUT THE DURATION OF THE CONSTRUCTION AND UNTIL THE ESTABLISHMENT OF PERMANENT STABILIZATION AND SEDIMENT CONTROL TO PREVENT THE DISCHARGE OF POLLUTANTS INCLUDING SEDIMENT, CONSTRUCTION MATERIALS, EXCAVATED MATERIALS, AND WASTE INTO THE SANTA CLARA COUNTY RIGHT-OF-WAY, STORM SEWER WATERWAYS, ROADWAY INFRASTRUCTURE. BMPs SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING:
 - PREVENTION OF POLLUTANTS IN STORM WATER DISCHARGES FROM THE CONSTRUCTION SITE AND THE CONTRACTOR'S MATERIAL AND EQUIPMENT LAYDOWN / STAGING AREAS.
 - PREVENTION OF TRACKING OF MUD, DIRT, AND CONSTRUCTION MATERIALS ONTO THE PUBLIC ROAD RIGHT-OF-WAY.
 - PREVENTION OF DISCHARGE OF WATER RUN-OFF DURING DRY AND WET WEATHER CONDITIONS ONTO THE PUBLIC ROAD RIGHT-OF-WAY.
- THE OWNER, CONTRACTOR, AND ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES SHALL ENSURE THAT ALL TEMPORARY CONSTRUCTION FACILITIES, INCLUDING BUT NOT LIMITED TO CONSTRUCTION MATERIALS, DELIVERIES, HAZARDOUS AND NON-HAZARDOUS MATERIAL STORAGE, EQUIPMENT, TOOLS, PORTABLE TOILETS, CONCRETE WASHOUT, GARBAGE CONTAINERS, LAYDOWN YARDS, SECONDARY CONTAINMENT AREAS, ETC. ARE LOCATED OUTSIDE THE SANTA CLARA COUNTY ROAD RIGHT-OF-WAY.
- EROSION CONTROL PLAN IS A GUIDE AND SHALL BE AMENDED AS NECESSARY TO PREVENT EROSION AND LIQUID DISCHARGES ON A YEAR AROUND BASIS, DEPENDING ON THE SEASON, WEATHER, AND FIELD CONDITIONS. EROSION CONTROL MEASURES IN ADDITION TO THOSE NOTED IN THE PERMITTED PLANS MAY BE NECESSARY. FAILURE TO INSTALL SITE SITE AND SITUATIONALLY APPROPRIATE EROSION CONTROL MEASURES MAY RESULT IN VIOLATIONS, FINES, AND A STOPPAGE OF WORK.



COUNTY LOCATION MAP



EXISTING TREE PROTECTION DETAILS

- PRIOR TO THE COMMENCEMENT OF ANY GRADING, TREE PROTECTIVE FENCING SHALL BE IN PLACE IN ACCORDANCE WITH THE TREE PRESERVATION PLAN AND INSPECTED BY A CERTIFIED ARBORIST. THE ARBORIST SHALL MONITOR CONSTRUCTION ACTIVITY TO ENSURE THAT THE TREE PROTECTION MEASURES ARE IMPLEMENTED AND ADHERED TO DURING CONSTRUCTION. THIS CONDITION SHALL BE INCORPORATED INTO THE GRADING PLANS.
- FENCE SHALL BE MINIMUM 5 FEET TALL CONSTRUCTED OF STURDY MATERIAL (CHAIN-LINK OR EQUIVALENT STRENGTH/ DURABILITY).
- FENCE SHALL BE SUPPORTED BY VERTICAL POSTS DRIVEN 2 FEET (MIN) INTO THE GROUND AND SPACED NOT MORE THAN 10 FEET APART.
- TREE FENCING SHALL BE MAINTAINED THROUGHOUT THE SITE DURING THE CONSTRUCTION PERIOD, INSPECTED PERIODICALLY FOR DAMAGE AND PROPER FUNCTION, REPAIRED AS NECESSARY TO PROVIDE A PHYSICAL BARRIER FROM CONSTRUCTION ACTIVITIES, AND REMAIN IN PLACE UNTIL THE FINAL INSPECTION.
- A SIGN THAT INCLUDES THE WORDS, "WARNING: THIS FENCE SHALL NOT BE REMOVED WITHOUT THE EXPRESSED PERMISSION OF THE SANTA CLARA COUNTY PLANNING OFFICE." SHALL BE SECURELY ATTACHED TO THE FENCE IN A VISUALLY PROMINENT LOCATION.

COUNTY OF SANTA CLARA DEPT. OF ROADS AND AIRPORTS
 ISSUED BY: _____ DATE: _____
 ENCROACHMENT PERMIT NO. _____

NO WORK SHALL BE DONE IN THE COUNTY'S RIGHT-OF-WAY WITHOUT AN ENCROACHMENT PERMIT, INCLUDING THE STAGING OF CONSTRUCTION MATERIAL AND THE PLACEMENT OF PORTABLE TOILETS.

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 FILE(S) NO. _____

DATE _____ SIGNATURE _____ R.C.E. NO. _____

 EXPIRATION DATE _____

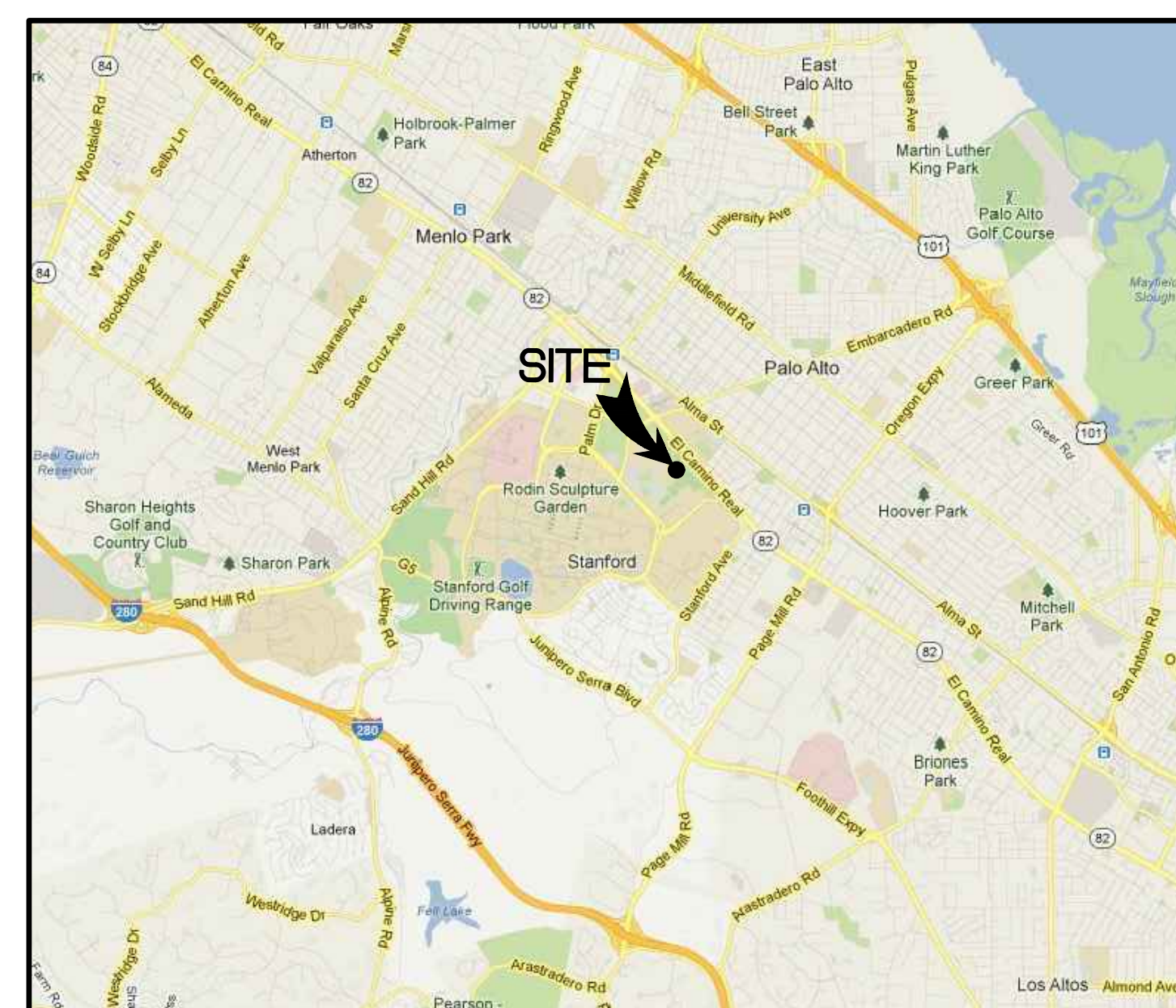
COUNTY ENGINEER'S NOTE

ISSUANCE OF A PERMIT AUTHORIZING CONSTRUCTION DOES NOT RELEASE THE DEVELOPER, PERMITEE 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 _____ R.C.F. NO. _____ EXPIRATION DATE _____

LACROSSE PRACTICE FIELD

STANFORD UNIVERSITY
 STANFORD CALIFORNIA



VICINITY MAP
 NOT TO SCALE

SHEET INDEX

THIS PROJECT INCLUDES CONSTRUCTION OF NEW LACROSSE FIELD. THE SCOPE OF WORK INCLUDES SITE GRADING, INSTALLATION OF UTILITIES, AND REMOVAL OF EXISTING TREES.

NO.	DESCRIPTION		
C-1.0	COUNTY COVER SHEET		
C-1.1	CONSTRUCTION NOTES		
C-2.0	TOPOGRAPHIC SURVEY		
C-3.0	DEMOLITION/TREE REMOVAL PLAN		
C-3.1	DEMOLITION/TREE REMOVAL NOTES		
C-4.0	GRADING AND DRAINAGE PLAN		
C-5.0	UTILITY PLAN		
C-6.0	EROSION CONTROL PLAN		
C-6.1 - C-6.2	COUNTY BMP NOTES		
C-7.0	FIRE ACCESS PLAN		
C-8.0	STORMWATER MANAGEMENT PLAN		
C-9.0	CONSTRUCTION SITE/LOGISTICS SAFETY PLAN		
L-1.01	LANDSCAPE PLAN		
L-1.02	LANDSCAPE NOTES		
E-1	PROJECT SUMMARY		
E-2 - E-6	ILLUMINATION SUMMARY		
E-7	EQUIPMENT LAYOUT		
E-8	LIGHTPOLE FOUNDATION & ASSEMBLY DETAIL		
ENGINEER'S NAME: <u>NATE DICKINSON</u>			
ADDRESS: <u>1700 S. WINCHESTER BLVD.</u> <u>CAMPBELL, CA 95008</u>			
PHONE NO. <u>408-636-0900</u>			
FAX NO. <u>408-636-0900</u>			
Revision 1	Date	APN	Sheet
Revision 2	Date	142-04-036	C-1.0
Revision 3	Date	Co. File	3 of 13

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
CI	-	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
MPOV	-	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
SDAD	-	STORM DRAIN AREA 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
SSMH	-	SANITARY SEWER MANHOLE
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
WVF	-	WELDED WIRE FABRIC
W/	-	WITH

LEGEND

SAWCUT AND CONFORM LINE	---
RETAINING WALL	=====
A.C. PAVEMENT	=====
CONC. VALLEY GUTTER	=====
CONC. SIDEWALK OR PAD	=====
6" CURB & GUTTER	=====
EDGE OF A.C. PAVEMENT	=====
6" VERTICAL CURB	=====
CENTER LINE	-----
SANITARY SEWER MAIN	8" SS
STORM DRAIN MAIN	12" SD
PERFORATED PIPE	6" SD
WATER MAIN	6" W
FIRE WATER MAIN	6" FW
DOMESTIC WATER MAIN	6" DW
CHILLED WATER MAIN	6" CHW
IRRIGATION LINE	2" IRR
HOT WATER SUPPLY & RETURN	HWS-HWR
STEAM LINE	ST
TRENCH DRAIN	=====
CONDENSATE RETURN	CR
FLOW LINE	---
CHAIN LINK FENCE	x x x x
GAS MAIN	G
ELECTRIC AND SIGNAL DUCT BANK	E
OVERHEAD ELECTRIC LINE	OHE
UNDERGROUND ELECTRIC LINE	UGE
STREET LIGHT CONDUIT	SL
CONTOUR ELEVATION LINE	85
SPOT ELEVATION	x 95.94
DIRECTION OF SLOPE	2:1 1%
GAS METER	GM
GAS VALVE	WV
WATER METER	WM
WATER VALVE	WV
FIRE HYDRANT	FH
BACK FLOW PREVENTOR	BFP
POST INDICATOR VALVE	PIV
FIRE DEPARTMENT CONNECTION	FDC
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
STORM DRAIN MANHOLE	○
STORM DRAIN AREA DRAIN	○
STORM DRAIN CATCH BASIN	□ CB
STORM DRAIN CURB INLET	=====
STORM DRAIN CLEANOUT	SDCO
ELECTROLIER	=====
JOINT POLE	JP
OVERLAND RELEASE	=====
CONSTRUCTION DETAIL REFERENCE	15
	C-5.2
	DETAIL REFERENCE SHEET REFERENCE

EXISTING

PROPOSED

SURVEY MONUMENT PRESERVATION

1. THE LANDOWNER / CONTRACTOR MUST PROTECT AND ENSURE THE PERPETUATION OF SURVEY MONUMENTS AFFECTED BY CONSTRUCTION ACTIVITIES.
2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL LOCATE, STAKE, AND FLAG OR OTHERWISE IDENTIFY WITH PAINT OR OTHER MARKINGS ALL PERMANENT SURVEY MONUMENTS OF RECORD AND ANY UNRECORDED MONUMENTS THAT ARE DISCOVERED THAT ARE WITHIN 50 FEET OF THE CONSTRUCTION ACTIVITY.
3. THE LANDOWNER, CONTRACTOR AND/OR ANY PERSON PERFORMING CONSTRUCTION ACTIVITIES THAT WILL OR MAY DISTURB AN EXISTING MONUMENT, CORNER STAKE, OR ANY OTHER PERMANENT SURVEYED MONUMENT SHALL CAUSE TO HAVE A LICENSED LAND SURVEYOR OR CIVIL ENGINEER, AUTHORIZED TO PRACTICE SURVEYING, ENSURE THAT A CORNER RECORD AND/OR RECORD OF SURVEY ARE FILED WITH THE COUNTY SURVEYOR'S OFFICE PRIOR TO DISTURBING SAID MONUMENTS AND RESET PERMANENT MONUMENT(S) IN THE SURFACE OF THE NEW CONSTRUCTION OR SET A WITNESS MONUMENT(S) TO PERPETUATE THE LOCATION IF ANY PERMANENT MONUMENT COULD BE DESTROYED, DAMAGED, COVERED, DISTURBED, OR OTHERWISE OBLITERATED. THE LICENSED LAND SURVEYOR OR CIVIL ENGINEER SHALL FILE A CORNER RECORD OR RECORD OF SURVEY WITH COUNTY SURVEYOR PRIOR TO FINAL ACCEPTANCE OF THE PROJECT BY THE LAND DEVELOPMENT ENGINEERING INSPECTOR.

GRADING NOTES

1. PROVIDE POSITIVE SURFACE DRAINAGE AWAY FROM ALL STRUCTURES BY SLOPING ALL HARDSCAPE SURFACES AT 2% AND VEGETATED SURFACES AT 3% AWAY FROM STRUCTURES UNLESS OTHERWISE NOTED ON PLANS.
2. ROUGH GRADING TO BE WITHIN 0.1' AND FINISH GRADES ARE TO BE WITHIN 0.05', HOWEVER CONTRACTOR SHALL NOT CONSTRUCT ANY IMPROVEMENTS THAT WILL CAUSE WATER TO POND OR NOT MEET REQUIREMENTS IN GRADING NOTE #1 OR THE ADA REQUIREMENTS BELOW. DO NOT ADJUST GRADES ON THIS PLAN WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER/ARCHITECT.
3. THE CONTRACTOR SHALL EXERCISE EXTREME CARE TO CONFORM TO THE LINES, GRADES, SECTIONS, AND DIMENSIONS AS SET FORTH ON THESE PLANS. ALL GRADED AREAS SHALL CONFORM TO THE VERTICAL ELEVATIONS SHOWN WITH A TOLERANCE OF ONE-TENTH OF A FOOT. WHERE GRADED AREAS DO NOT CONFORM TO THESE TOLERANCES, THE CONTRACTORS SHALL BE REQUIRED TO DO CORRECTIVE GRADING, AT NO EXTRA COST TO THE CLIENT.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM THE GROUND ELEVATIONS AND OVERALL TOPOGRAPHY OF THE SITE PRIOR TO THE START OF CONSTRUCTION AS TO THE ACCURACY BETWEEN THE WORK SET FORTH ON THESE PLANS AND THE WORK IN THE FIELD. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND CIVIL ENGINEER IN WRITING PRIOR TO START OF CONSTRUCTION WHICH MAY REQUIRE CHANGES IN DESIGN AND/OR AFFECT THE EARTHWORK QUANTITIES.
5. ALL GRADING SHALL CONFORM TO APPROVED SPECIFICATIONS PRESENTED HEREON OR ATTACHED HERETO. ALL GRADING WORK SHALL BE OBSERVED AND APPROVED BY THE SOILS ENGINEER. THE SOILS ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS BEFORE BEGINNING ANY GRADING. UNOBSERVED AND UNAPPROVED GRADING WORK SHALL BE REMOVED AND REDONE AT THE CONTRACTORS EXPENSE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPAIR OR REPLACE ANY EXISTING IMPROVEMENTS OF UNDERGROUND FACILITIES DAMAGED DURING THE CONSTRUCTION PERIOD.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL ENCROACHMENT, EXCAVATION, CONCRETE, ELECTRICAL, PLUMBING, ETC. PERMITS NECESSARY PRIOR TO BEGINNING CONSTRUCTION FOR ANY WORK.
8. AREAS LACKING TOPOGRAPHIC INFORMATION (ELEVATIONS) HAVE BEEN INTERPOLATED USING STANDARD ENGINEERING METHODS. CONTRACTOR SHALL FIELD VERIFY ALL ELEVATIONS AT CONFORMS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REPORT BACK ANY DISCREPANCIES TO THE CIVIL ENGINEER.
9. ADJUST ANY MANHOLE OR UTILITY STRUCTURES TO PROPOSED GRADE PRIOR TO INSTALLING FINAL LIFT OF AC OR POURING CONCRETE.
10. ALL EXPOSED DISTURBED AREAS SHALL HAVE 2" OF SALVAGED TOPSOIL SPREAD ACROSS TOP SURFACE TO REESTABLISH LOCAL VEGETATION. THIS PROJECT DOES NOT USE ANY PLANTING OR IRRIGATION.
11. SITE IS KNOWN TO HAVE NATURALLY OCCURRING ASBESTOS. CONTRACTOR TO COMPLY WITH BAAQMD REQUIREMENTS AND THE REQUIREMENTS OF THE ASBESTOS MITIGATION PLAN. CONTRACTOR SHALL ALSO INCLUDE EMPLOYEE SAFETY MITIGATION MEASURES IN BID.

ADA NOTES

1. ALL HARDSCAPE ALONG THE ADA PATH OF TRAVEL SHALL BE IN CONFORMANCE WITH TITLE 24 OF THE CALIFORNIA ADMINISTRATIVE CODE.
2. SLOPED WALKS ALONG THE DESIGNATED ADA PATH OF TRAVEL SHALL NOT EXCEED A SLOPE OF 1:20 (5%) WITHOUT HANDRAILS. THE MAXIMUM SLOPE WITH HANDRAILS OR FOR CURB RAMPS IS 1:12 (8.33%). LEVEL LANDINGS ARE REQUIRED AT THE TOP AND BOTTOM OF ALL SLOPED WALKWAYS AND RAMPS.

CONSTRUCTION GENERAL NOTES

1. THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT (BAAQMD) HAS IDENTIFIED A SET OF FEASIBLE PM10 CONTROL MEASURES FOR ALL CONSTRUCTION ACTIVITIES. THESE CONTROL MEASURES, AS PREVIOUSLY REQUIRED IN THE PROGRAM EIR, SHALL BE ADHERED TO DURING ALL CONSTRUCTION ACTIVITIES.
 - A. WATER ALL ACTIVE CONSTRUCTION AREAS AT LEAST TWICE DAILY;
 - B. COVER ALL TRUCKS HAULING SOIL, SAND, AND OTHER LOOSE MATERIALS OR REQUIRE ALL TRUCKS TO MAINTAIN AT LEAST TWO FEET OF FREEBOARD;
 - C. PAVE, APPLY WATER THREE TIMES DAILY, OR APPLY (NON-TOXIC) SOIL STABILIZERS ON ALL UNPAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES;
 - D. SWEEP DAILY (WITH WATER SWEEPERS) ALL PAVED ACCESS ROADS, PARKING AREAS AND STAGING AREAS AT CONSTRUCTION SITES;
 - E. SWEEP STREETS DAILY (WITH WATER SWEEPERS) IF VISIBLE SOIL MATERIAL IS CARRIED ONTO ADJACENT PUBLIC STREETS;
 - F. HYDROSEED OR APPLY (NON-TOXIC) SOIL STABILIZERS TO INACTIVE CONSTRUCTION AREAS (PREVIOUSLY GRADED AREAS INACTIVE FOR TEN DAYS OR MORE);
 - G. ENCLOSE, COVER, WATER TWICE DAILY OR APPLY (NON-TOXIC) SOIL BINDERS TO EXPOSED STOCKPILES (DIRT, SAND,);
 - H. LIMIT TRAFFIC SPEEDS ON UNPAVED ROADS TO 15 MPH;
 - I. INSTALL FIBER ROLLS, SANDBAGS OR OTHER EROSION CONTROL MEASURES TO PREVENT SILT RUNOFF TO PUBLIC ROADWAYS;
 - J. REPLANT VEGETATION IN DISTURBED AREAS AS QUICKLY AS POSSIBLE;
 - K. INSTALL WHEEL WASHERS FOR ALL EXISTING TRUCKS, OR WASH OFF THE TIRES OF TRACKS OF ALL TRUCKS AND EQUIPMENT LEAVING THE SITE; AND
 - L. SUSPEND EXCAVATION AND GRADING ACTIVITY WHEN WINDS (INSTANTANEOUS GUSTS) EXCEED 25 MPH."
2. ALL CONSTRUCTION CONTRACTORS SHALL PROPERLY MAINTAIN THE EQUIPMENT AND WHERE FEASIBLE, USE "CLEAN FUEL" EQUIPMENT AND EMISSIONS CONTROL TECHNOLOGY (E.G., CNG FIRED ENGINES, CATALYTIC CONVERTERS, PARTICULATE TRAPS, ETC.). MEASURES TO REDUCE DIESEL EMISSION WOULD BE CONSIDERED FEASIBLE WHEN THEY ARE CAPABLE OF BEING USED ON EQUIPMENT WITHOUT INTERFERING SUBSTANTIALLY WITH EQUIPMENT PERFORMANCE.

TREE PROTECTION NOTES

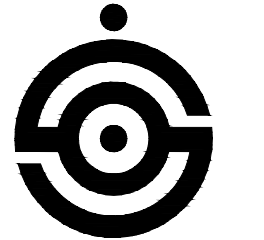
1. THE GENERAL CONTRACTOR SHALL TAKE THE FOLLOWING STEPS TO PRESERVE AND PROTECT ALL EXISTING TREES SHOWN TO REMAIN:
 - A. PRIOR TO COMMENCEMENT OF DEMOLITION, GRADING AND CONSTRUCTION, TEMPORARY FENCING SHALL BE INSTALLED AT THE DRIP LINE OF EACH TREE TO BE PRESERVED. REFER TO DETAIL, FENCED AREAS SHALL 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 3/4" DIAMETER SHALL BE PAINTED WITH "TREE SEAL" OR APPROVED EQUAL. IN NO CASE SHALL ANY TREE BE TOPPED.
 - C. ALL EXISTING ON-SITE TREES INDICATED TO REMAINS SHALL BE FERTILIZED BY ROOT INJECTION BY A LICENSED ARBORIST FOUR WEEKS PRIOR TO COMMENCEMENT OF GRADING OR DEMOLITION OPERATIONS.
2. ALL EXISTING ON-SITE TREES INDICATED TO REMAIN SHALL BE PRESERVED AND PROTECTED DURING CONSTRUCTION. NO GRADING IS PERMITTED WITHIN THE DRIP-LINE OF ANY TREE INDICATED TO REMAIN. NO DEBRIS OR MATERIALS SHALL BE STOCKPILED AROUND THE BASE OF THE TREES. NO TRADESMAN SHALL DUMP DEBRIS OR FLUIDS WITHIN THE DRIP-LINE OF ANY TREES (PLASTER, PAINT, THINNER, ETC.). ALL TREES SHALL BE FENCED BY THE GENERAL CONTRACTOR TO AVOID COMPACTION OF THE TREE'S ROOT SYSTEM AND DAMAGE TO THE BARK. THE FENCE SHALL BE SIX FEET HIGH, AND EXTEND OUT TO THE DRIP-LINE OF THE TREE.
3. ALL EXISTING ON-SITE TREES INDICATED TO REMAIN SHALL BE WATERED BY THE GENERAL CONTRACTOR CONTINUOUSLY DURING THE COURSE OF CONSTRUCTION. IF POTABLE WATER IS NOT AVAILABLE ON THE SITE, A WATERING TRUCK SHALL BE EMPLOYED TO ACCOMPLISH THE WATERING.
4. DO NOT DISTURB SURFACE SOIL WITHIN TREE DRIP-LINE EXCEPT AS MANDATED BY CONSTRUCTION PLANS.
5. DURING PERIODS OF EXTENDED DROUGHT, SPRAY WOAK TREES TO REMOVE ACCUMULATED CONSTRUCTION.
6. GRADE IN LINES RADIAL TO THE EXISTING TREE RATHER THAN TANGENTIAL. IF ROOTS ARE ENCOUNTERED WHILE GRADING, CUT THEM CLEANLY WITH A SAW. DO NOT RIP THEM WITH GRADING EQUIPMENT.
7. DO NOT ATTEMPT DEMOLITION OF TREES WITH GRADING EQUIPMENT WHEN TREES THAT ARE TO BE PRESERVED ARE IN THE VICINITY.

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: Lacrosse Practice Field
 Project Address: 657 Masters Mall,
 Stanford CA. 94305
 Quad/ Bldg. Number: 09-379



SANDIS

ISSUES AND REVISIONS

NO.	DATE	DESCRIPTION
	03.18.24	DRAFT ASA SUBMITTAL

PROJECT NUMBER

SHEET TITLE

CONSTRUCTION NOTES

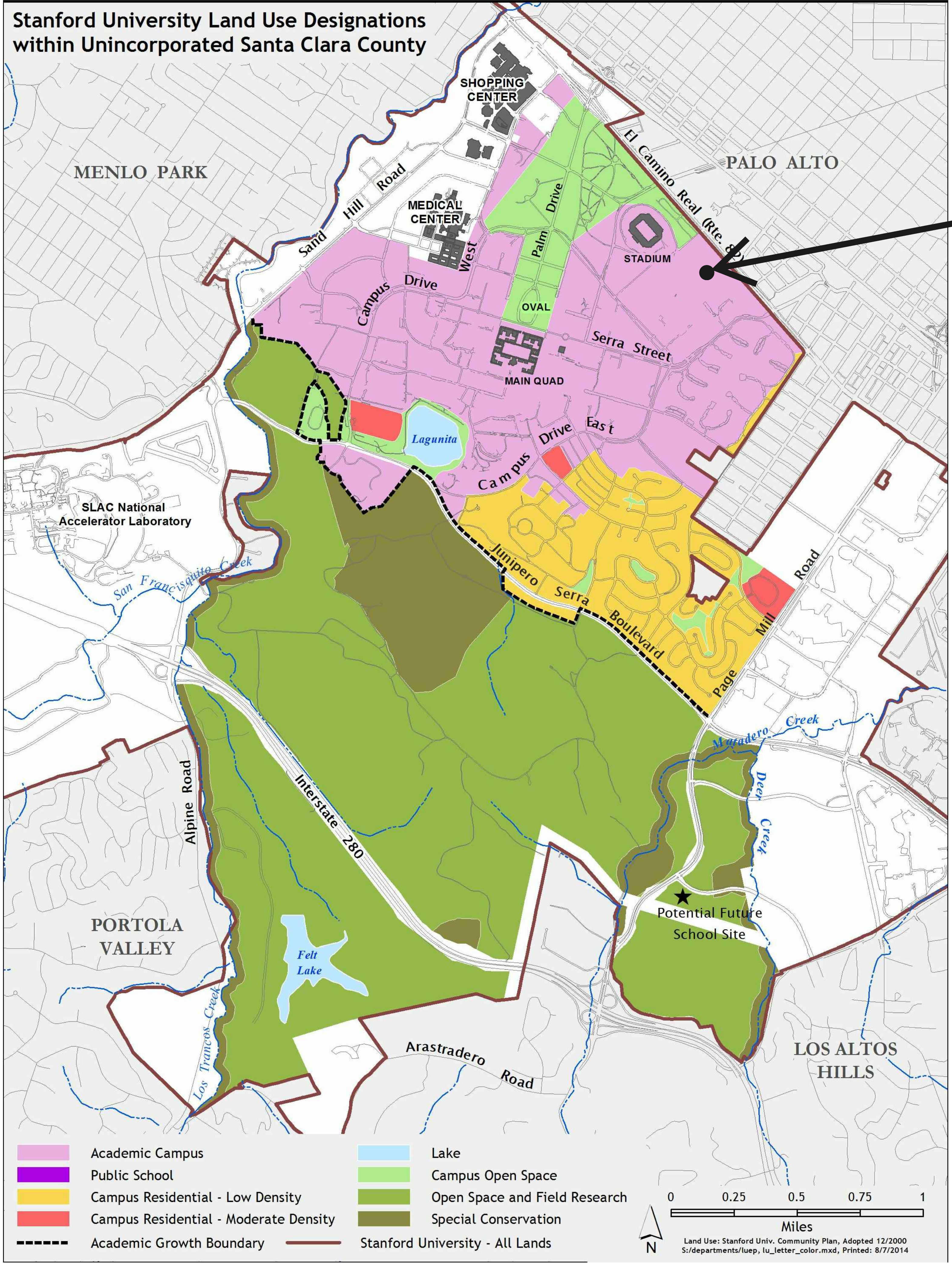
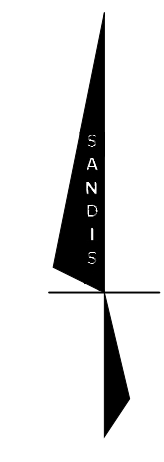
SCALE

N.T.S.

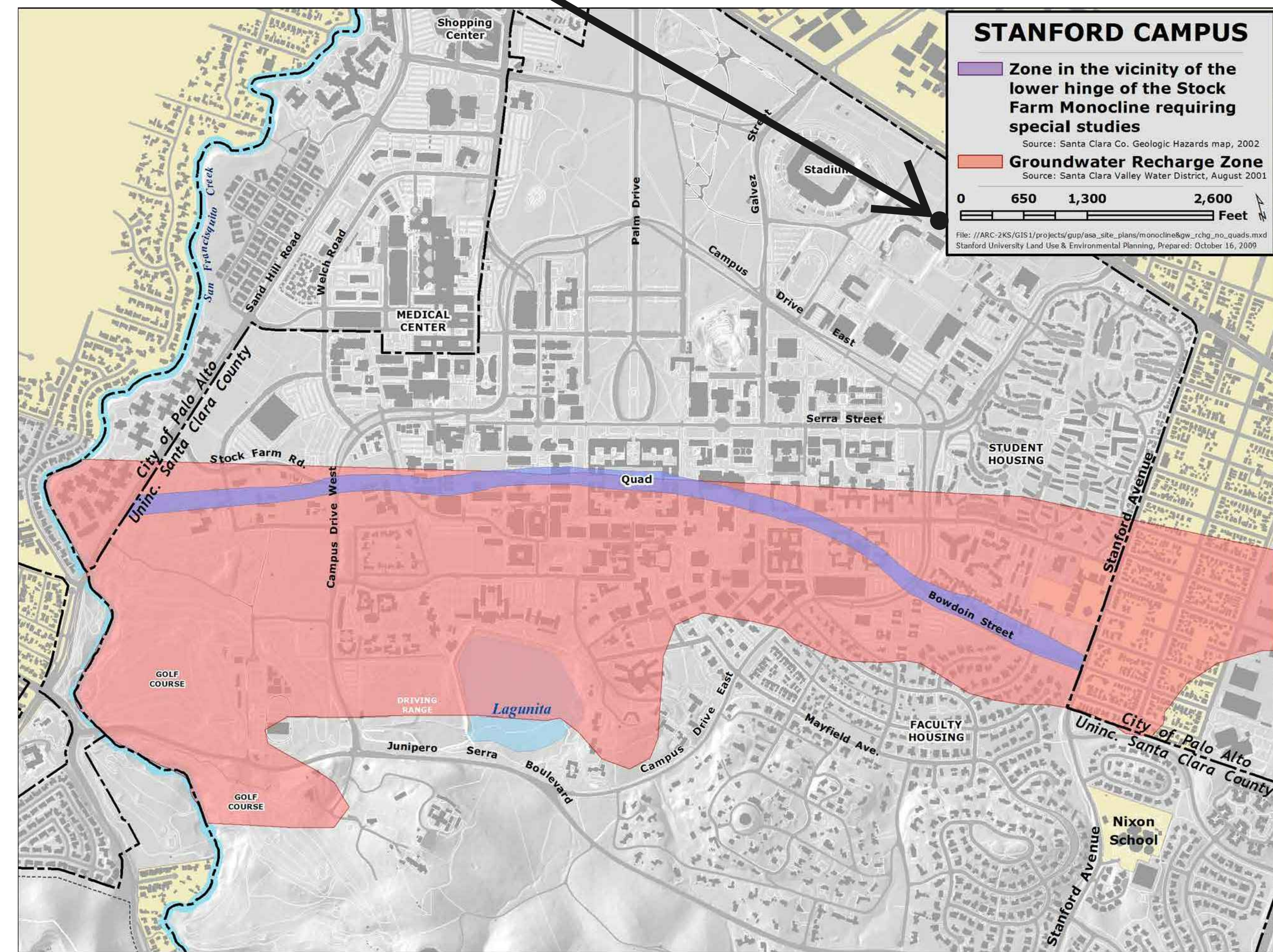
SHEET NUMBER

C-1.1

GUP INFORMATION MAP



PROPOSED SITE



DEPARTMENT OF PROJECT MANAGEMENT
340 Bonair Siding Road
Stanford, CA 94304
TELEPHONE (650) 723-0022 FAX (650) 723-7444

GUP INFORMATION MAP

STANFORD UNIVERSITY
LACROSSE PRACTICE FIELD

DATE: 03/18/2024
SCALE: N/A

PL12

Project Name: Lacrosse Practice Field
 Project Address: 657 Masters Mall,
 Stanford CA. 94305
 Quad/ Bldg. Number: 09-379



SYMBOLS & ABBREVIATIONS

AD	□	AREA DRAIN	GM	⊗	GAS METER
BAY	△	BAY TREE	HE	⊗	HARDSCAPE ELEC LIGHT
BFP	□	BACK FLOW PREVENTOR	IF	⊗	IRON FENCE
BUDC	□	BUILDING CORNER	L/S	⊗	LANDSCAPE
BUL	□	BUILDING LINE	OH	⊗	OVERHANG
BOL	•	BOLLARD	P	⊗	PAVEMENT
BOW	•	WALL BOTTOM OF	PEPPER	⊗	PEPPER TREE
BW	□	BACK OF WALK	PINE	⊗	PINE TREE
CB	□	CATCH BASIN	RWD	⊗	REDWOOD TREE
CHKSH	⊗	CONTROL CHECKSHOT	SMH	⊗	STORM DRAIN MANHOLE
CNPT	⊗	CONTROL POINT	SON	⊗	SIGNS
CONC	□	CONCRETE	SSCO	⊗	SANITARY CLEANOUT
DI	□	DRAIN INLET	SSMH	⊗	SANITARY MANHOLE
EP	□	EDGE OF PAVEMENT	STL	⊗	STREET LIGHT LAMP NO ARM
EPC	□	ELECTRIC PULLBOX	STL-S	⊗	STREET LIGHT SINGLE ARM
EUC	⊗	EUCALYPTUS TREE	STPB	⊗	STREET LIGHT PULLBOX
FDONPT	⊗	FOUND CONTROL POINT	SW	⊗	SIDEWALK
FF	□	BUILDING FINISHED FLOOR	TRANS	⊗	TRANSFORMER
FGDOOR	⊗	FINISHED GRADE AT DOOR	TC	⊗	TOP OF CURB
FH	⊗	FIRE HYDRANT	TOW	⊗	TOP OF WALL
FL	□	FLOW LINE	TREE	⊗	TREE SYMBOL
FNC	□	FENCE	WM	⊗	WATER METER
G	□	GROUND	WV	⊗	WATER VALVE
			WLT	⊗	WATER VAULT

LEGEND

	BUILDING LINE
	BUILDING OVERHANG
	APPARENT TRAVELED WAY
	ASPHALT
	CONCRETE
	CURB LINE
	FENCE LINE
	TREE DRIPLINE
	DOMESTIC WATER
	LAKE WATER
	STREET LIGHT CONDUIT
	LIMIT OF WORK
	POINT, ELEVATION AND DESCRIPTION
	CONTOURS (1-FT INTERVALS)
	TREE (DIAMETER SIZE IN INCHES) / TAG NUMBER

UNDERGROUND UTILITY NOTE

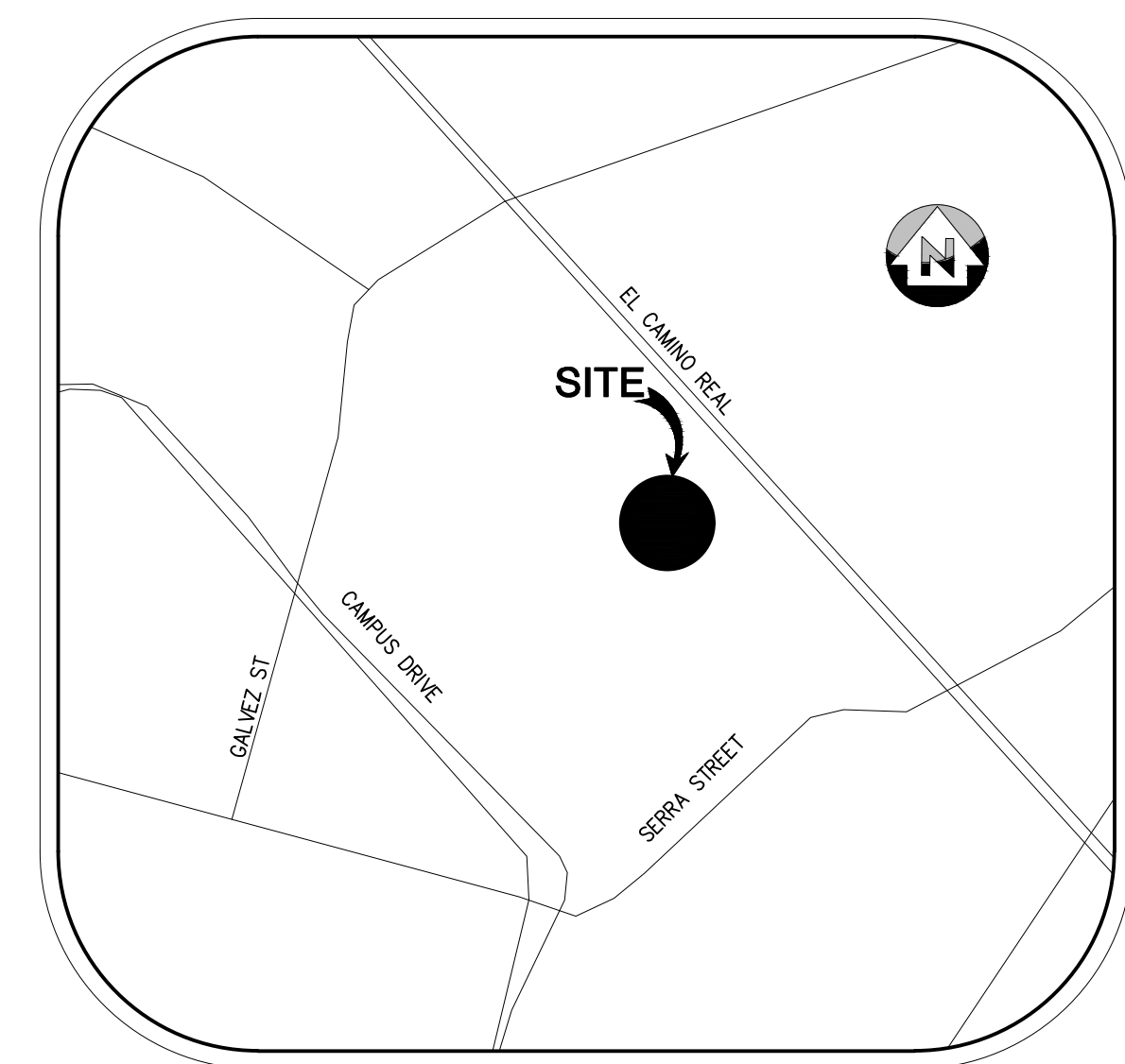
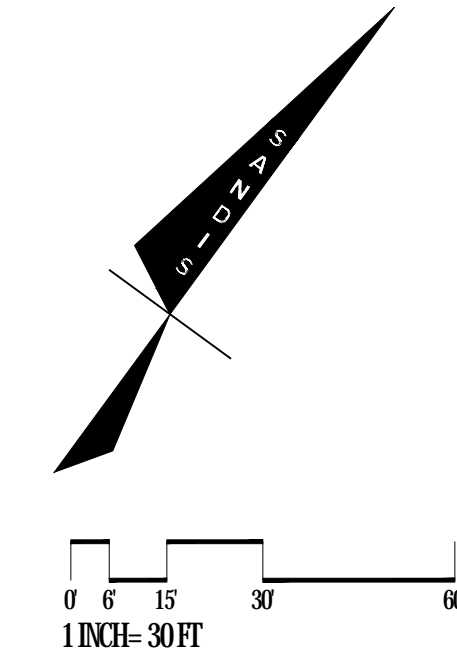
THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AS SHOWN ON THIS TOPOGRAPHIC SURVEY ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS AND DEPTHS OF SUCH UNDERGROUND UTILITIES. A REASONABLE 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.

SURVEY NOTES

- ALL DISTANCES AND DIMENSIONS ARE SHOWN IN FEET AND DECIMALS THEREOF.
- DATES OF FIELD SURVEY: 03-12-18

BENCHMARK

THE ELEVATION REFERENCE FOR THIS SURVEY IS STANFORD MONUMENT S-124, WHICH IS A SET 2-1/2" BRASS DISK, W/PUNCH MARK, STAMPED "S-124, LS 5797" IN MON WELL IN AC PATH AT THE BACK OF CURB NORTH OF THE INTERSECTION OF CAMPUS DR. EAST AND ENTRANCE TO THE PARKING LOT SOUTHEAST OF THE MAPLES PAVILLION.
 ELEVATION= 59.68 FEET (NGVD 29 DATUM)

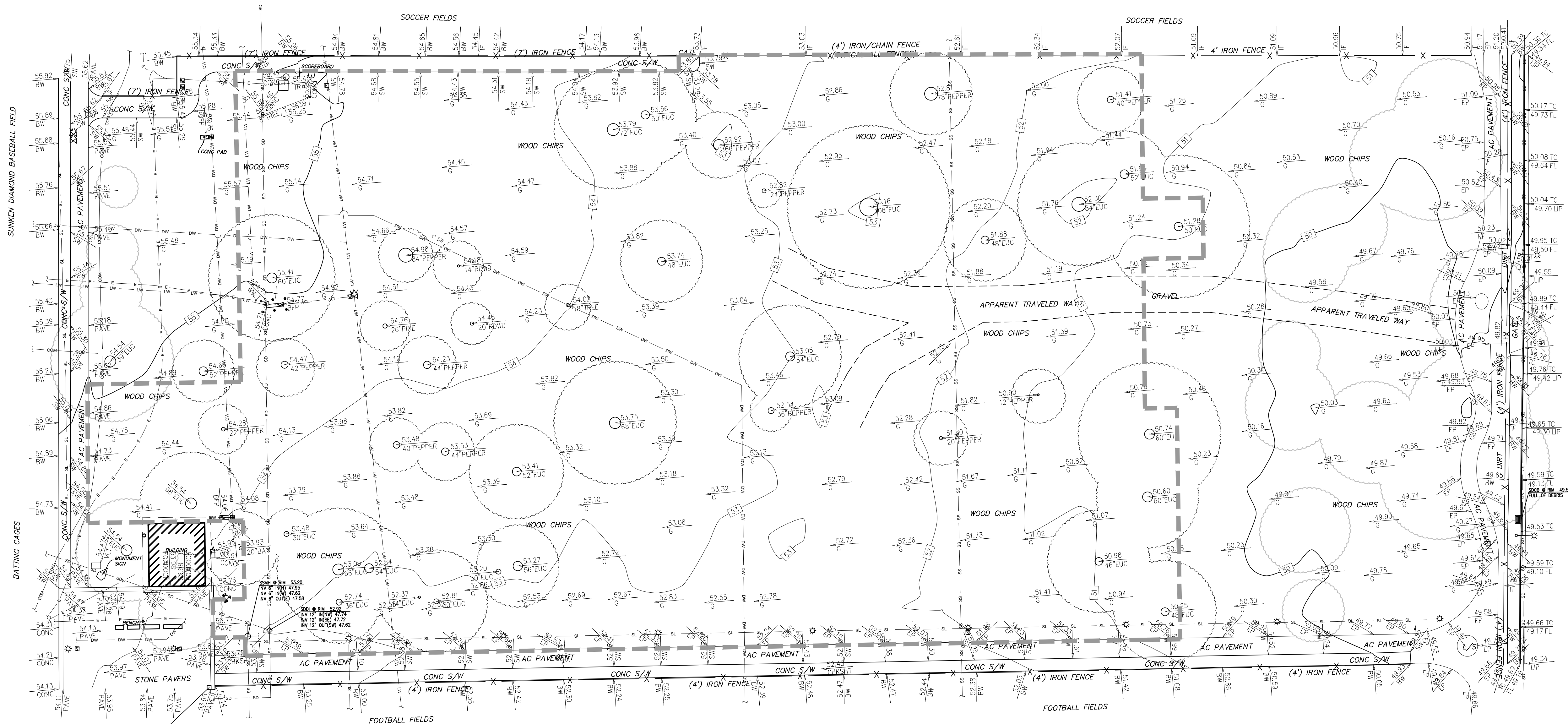


VICINITY MAP
N.T.S.

NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN ANY FORM INCLUDING PHOTOCOPY, RECORDING OR ANY INFORMATION RETRIEVABLE AND STORAGE SYSTEM, WITHOUT PERMISSION IN WRITING FROM SANDIS.

MASTERS MALL

EL CAMINO REAL



CHURCHILL MALL

ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	03.18.24	DRAFT ASA SUBMITTAL

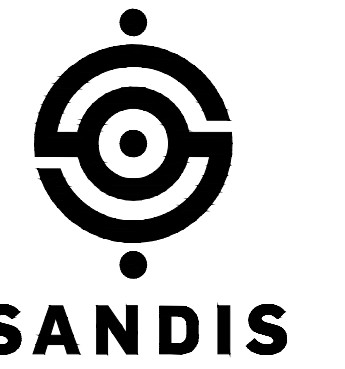
PROJECT NUMBER

SHEET TITLE
TOPOGRAPHIC SURVEY

SCALE
1"=30'

SHEET NUMBER

C-2.0



ISSUES AND REVISIONS	
NO.	DESCRIPTION
03.18.24	DRAFT ASA SUBMITTAL

PROJECT NUMBER

SHEET TITLE

DEMOLITION/ TREE
 REMOVAL PLAN

SCALE

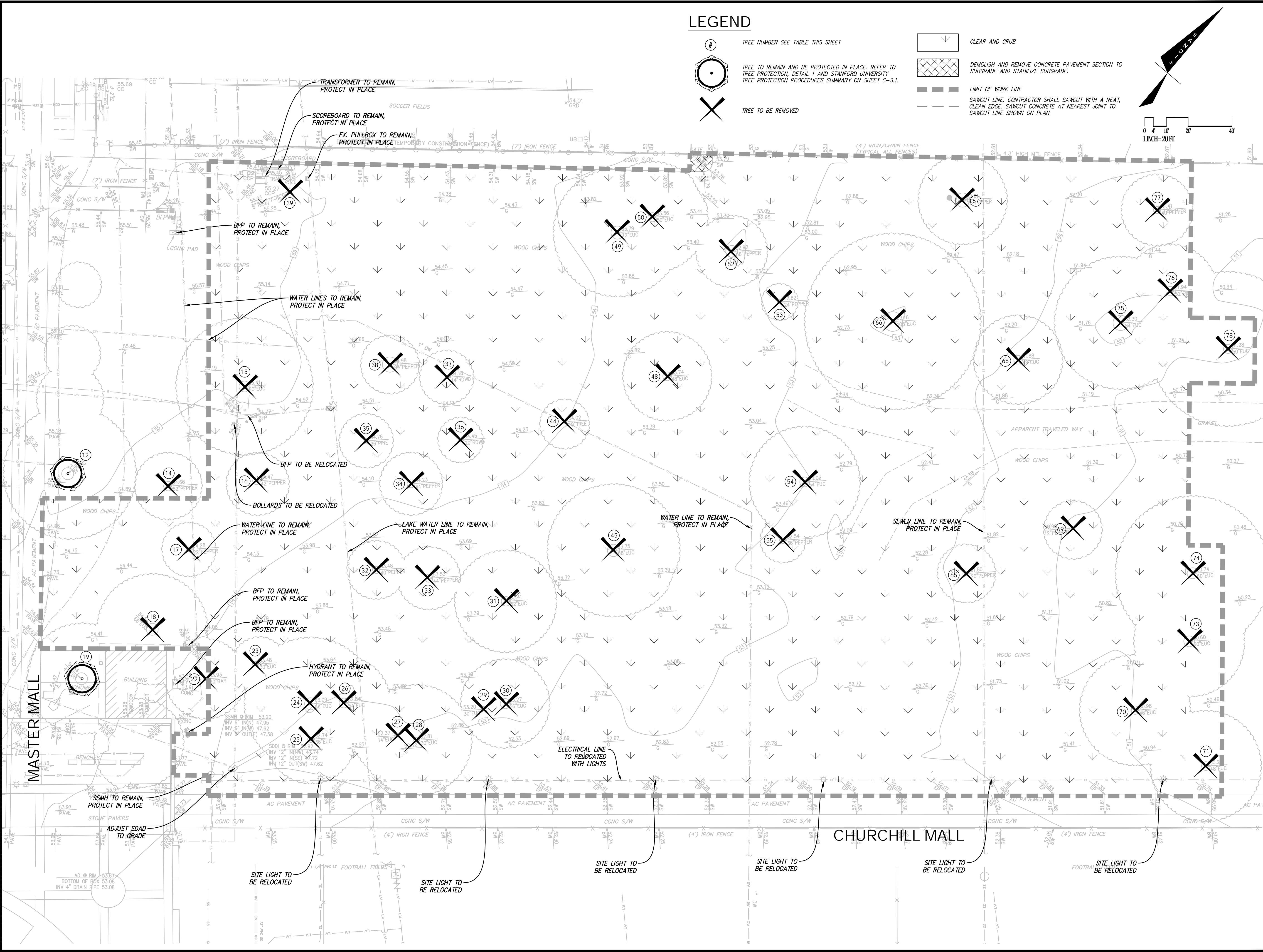
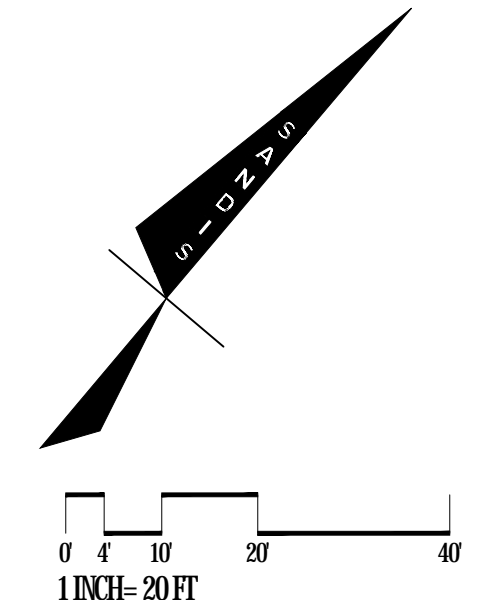
1"=20'

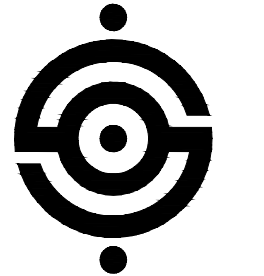
SHEET NUMBER

C-3.0

LEGEND

- # TREE NUMBER SEE TABLE THIS SHEET
- TREE TO REMAIN AND BE PROTECTED IN PLACE. REFER TO TREE PROTECTION, DETAIL 1 AND STANFORD UNIVERSITY TREE PROTECTION PROCEDURES SUMMARY ON SHEET C-3.1.
- TREE TO BE REMOVED
- CLEAR AND GRUB
- DEMOLISH AND REMOVE CONCRETE PAVEMENT SECTION TO SUBGRADE AND STABILIZE SUBGRADE.
- 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.





SANDIS

DEMOLITION NOTES

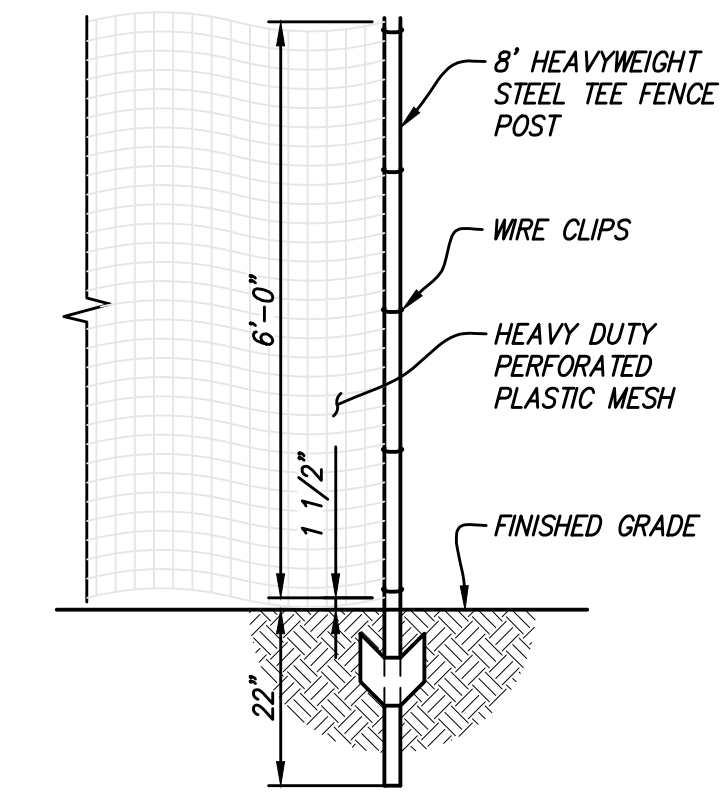
- REMOVAL, PROTECTION, AND RELOCATION OF ELECTRICAL UTILITIES AND WATER LINES ARE SHOWN FOR REFERENCE ONLY AND ARE NOT COVERED BY THE GRADING PERMIT.
- COORDINATE DEMOLITION WORK WITH STANFORD UNIVERSITY'S; ADHERE TO ALL THEIR REQUIREMENTS.
- DEMOLITION AND CONSTRUCTION WORK MAY BE PERFORMED OVER THE 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.
- 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.
- CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
- 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.
- CONTRACTOR SHALL PAY DISPOSAL FEES.
- 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).
- WITHIN LIMITS OF WORK, REMOVE CURBS, GUTTERS, LANDSCAPING, SIGNAGE, TREES, SHRUBS, ASPHALT, UNDERGROUND PIPES, ETC. AS INDICATED ON THE DRAWINGS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING ALL DEMOLITION MATERIALS, OR STORING SELECTED ITEMS BY UNIVERSITY'S REPRESENTATIVE AT DESIGNATED LOCATIONS.
- PRIOR TO BEGINNING DEMOLITION WORK, CONTRACTOR TO NOTIFY AND COORDINATE THE REMOVAL AND/OR ABANDONMENT OF ALL AFFECTED UTILITIES WITH THE FCM.
- CONTRACTOR RESPONSIBLE FOR PREPARING WASTE MANAGEMENT PLAN, TRAINING OF EMPLOYEES & SUBCONTRACTORS, AND ENSURING PROPER REMOVAL AND DISPOSAL OF ALL HAZARDOUS MATERIALS.
- 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.
- CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT, USA, FOR LOCATION AND MARKING OF UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION
- 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.
- 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.
- CONTRACTOR SHALL CLEAR AND GRUB WITHIN LIMIT OF WORK AS NEEDED TO PERFORM DEMOLITION ACTIVITIES.
- SAWCUT & REMOVE HARDSCAPE SUCH AS, BUT NOT LIMITED TO, AC PAVEMENT, CURB, SIDEWALK, ETC.
- 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.
- CONTRACTOR TO GRIND/ROUND CONCRETE EDGE AFTER SAWCUTTING TO MAINTAIN APPEARANCE AND SAFETY.
- CONTRACTOR SHALL SCHEDULE MEETING WITH STANFORD ARBORIST AND UA/CPD FOR REVIEW OF THE TREE PROTECTION PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR TO SCHEDULE MEETING WITH HIGH VOLTAGE SHOP PRIOR TO REMOVING ANY EXISTING PULLBOXES.

TREE DISPOSITION TABLE

FOR BREVITY, TREE TAGS ARE REFERRED TO IN THE WLCA ARBORIST REPORT BY THE LAST TWO DIGITS ONLY.

TREE NO.	SPECIES	DBH (IN.)	REMOVE/REMAIN	PROTECTED STATUS
12	EUCALYPTUS GLOBULUS	39.1	REMAIN	NOT PROTECTED, SEE NOTE CONDITION B
14	SCHINUS MOLLE	45.0	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
15	EUCALYPTUS GLOBULUS	49.5	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
16	SCHINUS MOLLE	34.6	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
17	SCHINUS MOLLE	20.0	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
18	EUCALYPTUS GLOBULUS	60.7	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
19	EUCALYPTUS GLOBULUS	41.4	REMAIN	NOT PROTECTED, SEE NOTE CONDITION B
22	EUCALYPTUS POLYANTHEMOS	20.2	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
23	EUCALYPTUS SPECIES	26.8	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
24	EUCALYPTUS GLOBULUS	26.0	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
25	EUCALYPTUS GLOBULUS	33.0	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
26	EUCALYPTUS GLOBULUS	32.0	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
27	EUCALYPTUS CAMALDULENSIS	15.3	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
28	EUCALYPTUS CAMALDULENSIS	29.7	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
29	EUCALYPTUS GLOBULUS	29.1	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
30	EUCALYPTUS GLOBULUS	58.0	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
31	EUCALYPTUS GLOBULUS	42.8	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
32	SCHINUS MOLLE	18.0	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
33	SCHINUS MOLLE	15.2	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
34	SCHINUS MOLLE	18.0	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
35	PINUS RADIATA	24.6	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
36	SEQUOIA SEMPERVIRENS	18.6	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
37	SEQUOIA SEMPERVIRENS	13.6	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
38	SCHINUS MOLLE	70.0	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
39	PISTACIA CHINENSIS	9.5	REMOVE	NOT PROTECTED, SEE NOTE CONDITION A
44	OLEA EUROPAEA	9.0	REMOVE	NOT PROTECTED, SEE NOTE CONDITION A
45	EUCALYPTUS GLOBULUS	25.0	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
48	EUCALYPTUS GLOBULUS	48.3	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
49	EUCALYPTUS GLOBULUS	63.7	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
50	EUCALYPTUS GLOBULUS	43.0	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
52	SCHINUS MOLLE	23.7	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
53	SCHINUS MOLLE	21.0	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
54	EUCALYPTUS GLOBULUS	45.7	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
55	SCHINUS MOLLE	11.2	REMOVE	NOT PROTECTED, SEE NOTE CONDITION A
65	SCHINUS MOLLE	9.5	REMOVE	NOT PROTECTED, SEE NOTE CONDITION A
66	EUCALYPTUS GLOBULUS	91.7	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
67	SCHINUS MOLLE	35.6	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
68	EUCALYPTUS GLOBULUS	48.8	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
69	SCHINUS MOLLE	11.0	REMOVE	NOT PROTECTED, SEE NOTE CONDITION A
70	EUCALYPTUS GLOBULUS	47.3	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
71	EUCALYPTUS GLOBULUS	41.5	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
73	EUCALYPTUS GLOBULUS	53.4	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
74	EUCALYPTUS GLOBULUS	53.7	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
75	EUCALYPTUS GLOBULUS	72.8	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B
76	EUCALYPTUS GLOBULUS	52.2	REMOVE	NOT PROTECTED, SEE NOTE CONDITION B

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.



NOTES:

- THE DRIPLINE OF EACH TREE TO BE PROTECTED SHALL BE ENCLOSED WITH A 6" HIGH TEMPORARY FENCE. FENCE FABRIC SHALL BE HEAVY DUTY PERFORATED, BRIGHT COLORED, PLASTIC MESH. FENCE STAKES SHALL BE 8" HEAVY WEIGHT STEEL TEE FENCE POSTS DRIVEN 22" INTO GRADE.
- METAL CHAIN LINK FENCE 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 SGCA.

TREE PROTECTION DETAIL 1
 N.T.S.

STANFORD UNIVERSITY TREE PROTECTION PROCEDURES SUMMARY

- 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.
- 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.
- A STANFORD GROUNDS CERTIFIED ARBORIST SHALL BE CONTACTED TO EVALUATE ALL WORK WITHIN ANY TREES ROOT ZONES.
- ALL TREES TO REMAIN ON A PROJECT SHALL HAVE PROTECTIVE FENCING INSTALLED PER THE TREE PROTECTION DRAWING INCLUDED IN THE PLAN SET.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- NO PRUNING, 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.
- EXISTING TREES SHALL BE MONITORED WEEKLY AND IRRIGATED AS NEEDED DURING THE COURSE OF CONSTRUCTION.
- NO LIME OR OTHER SOIL TREATMENT SHALL BE APPLIED WITHOUT THE CONSENT OF A STANFORD GROUNDS CERTIFIED ARBORIST.
- ALL TRENCHING SHALL CONFORM TO THE FOLLOWING GUIDELINES.
 - STANFORD GROUNDS CERTIFIED ARBORIST IS REQUIRED TO BE PRESENT TO SUPERVISE ANY TRENCHING, DIGGING OR EXCAVATION OF ANY KIND WITHIN A TREE'S ROOT ZONE.
 - ROOTS LARGER THAN 2 INCHES IN DIAMETER SHALL NOT BE SEVERED WITHOUT CALLING A STANFORD GROUNDS CERTIFIED ARBORIST FOR CUTTING OR REVIEW.
 - TUNNELING OR BORING UNDER ROOTS RATHER THAN PRUNING IS PREFERRED.
 - 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.
 - 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.

ISSUES AND REVISIONS	
NO.	DESCRIPTION
03.18.24	DRAFT ASA SUBMITTAL

PROJECT NUMBER

SHEET TITLE

DEMOLITION/ TREE
 REMOVAL NOTES

SCALE

N.T.S.

SHEET NUMBER

WATER SYSTEM NOTES

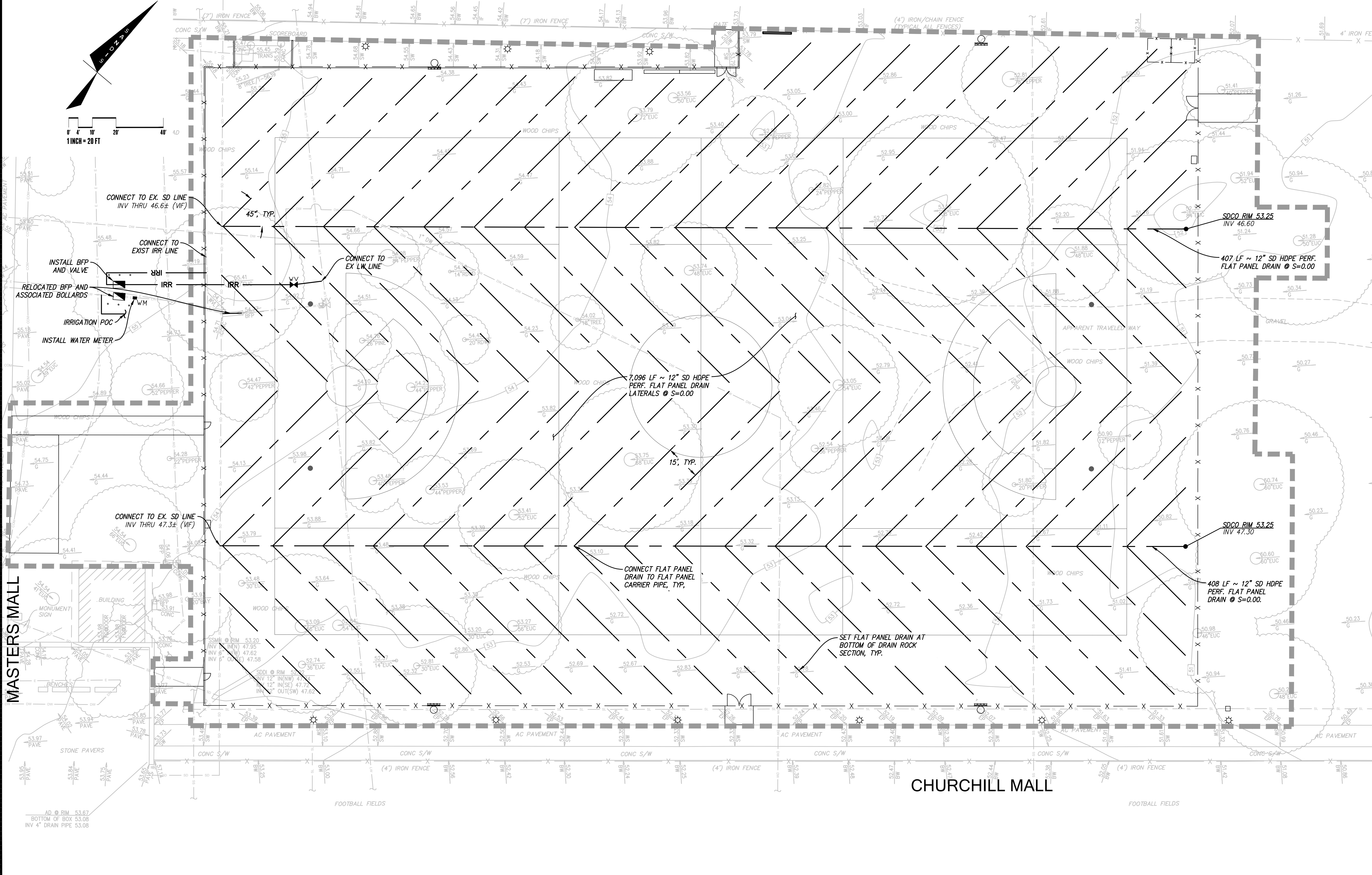
1. MAINTAIN WATER MAIN LINES 10' AWAY FROM SANITARY SEWER MAIN LINES. LATERALS SHALL BE SEPARATED PER PLAN DIMENSIONS.
2. WHERE WATER LINES HAVE TO CROSS SANITARY SEWER LINES, DO SO AT A 90 DEGREE ANGLE AND WATER LINES SHALL BE MINIMUM OF 12" ABOVE TOP OF SANITARY SEWER LINES.
3. ALL WATER SERVICE CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE WATER DISTRICT 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.

STORM DRAIN NOTES

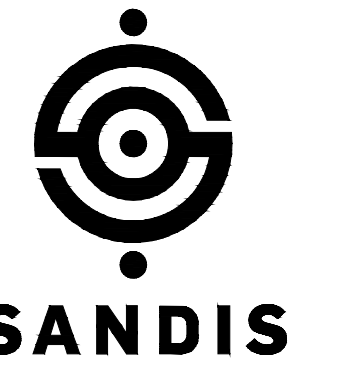
1. PRIVATE STORM DRAIN LINE 4-INCH THROUGH 12-INCH WITH A MINIMUM OF TWO (2) FEET OF COVER IN NON-TRAFFIC AREAS SHALL BE POLYVINYL CHLORIDE (PVC) SDR 35 GREEN PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034-73 WITH BELLS AND SPIGOT CONNECTIONS. ALL DIRECTION CHANGES SHALL BE MADE 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

LEGEND

————— FLAT DRAIN PANEL PIPING



Project Name: Lacrosse Practice Field
 Project Address: 657 Masters Mall,
 Stanford CA. 94305
 Quad/ Bldg. Number: 09-379



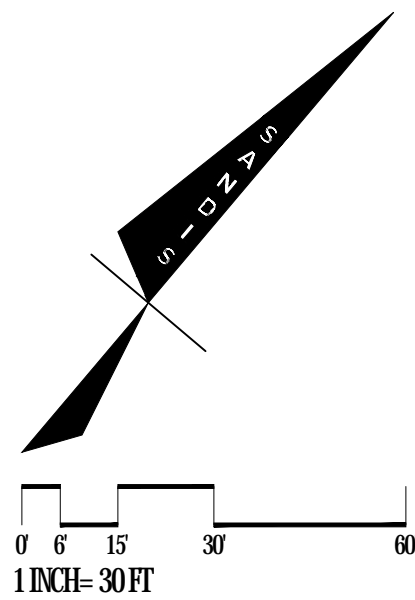
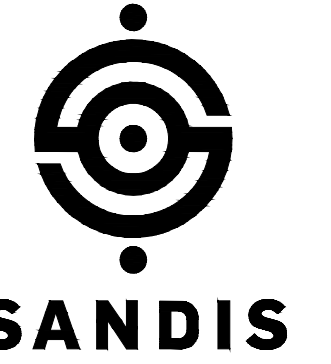
ISSUES AND REVISIONS	
NO.	DESCRIPTION
03.18.24	DRAFT ASA SUBMITTAL

PROJECT NUMBER

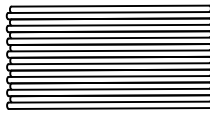
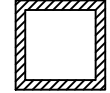

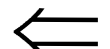
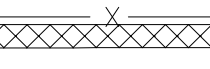

SHEET TITLE
UTILITY PLAN

SCALE
 1"=20'

SHEET NUMBER

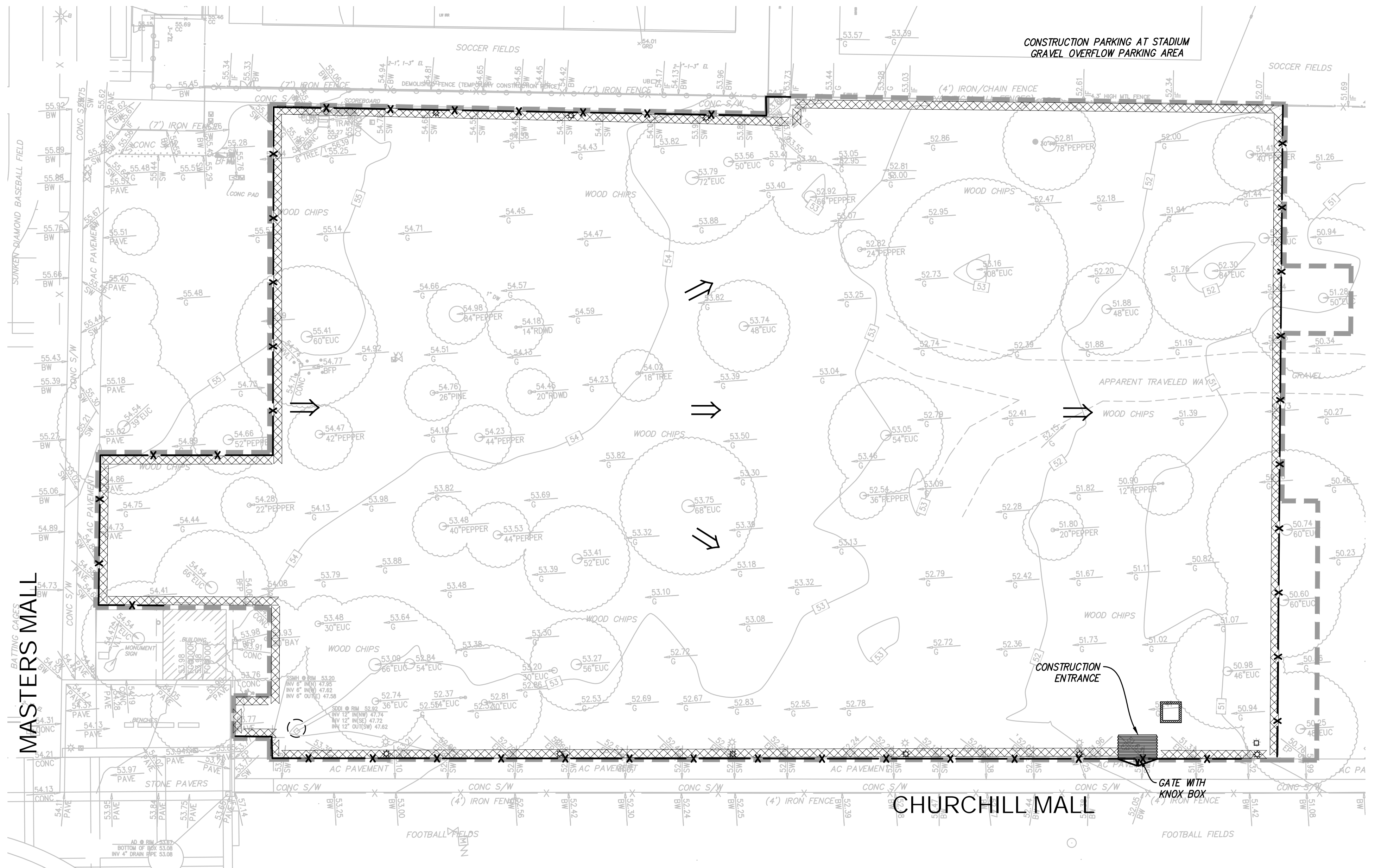


LEGEND

-  CONSTRUCTION ENTRANCE $\frac{3}{C-6.1}$
-  CONCRETE WASTE MANAGEMENT $\frac{2}{C-6.2}$
-  CONSTRUCTION TRAILER
CONSTRUCTION TRAILER (DURATION 6 MONTHS)
CONSTRUCTION TRAILER WILL BE SHARED WITH ADJACENT SOFTBALL PROJECT (PLN23-033)
-  OVERLAND RELEASE POINT
-  CONSTRUCTION FENCE WITH FIBER ROLLS $\frac{1}{C-7.1}$
-  APPROXIMATE AREA OF CONSTRUCTION DISTURBANCE

EROSION 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 QSP.
- K. ALL CONCRETE TRUCKS TO USE CHUTE WASH BUCKETS FOR CONCRETE RINSE, ALL CONCRETE PUMPS TO CAPTURE CONCRETE RINSE IN SECONDARY CONTAINMENT AND PROPERLY DISPOSE.
- L. STREET SWEEPING SHALL BE CHECKED DAILY TO ENSURE DEPOSITED SEDIMENT AND DEBRIS DOES NOT ENTER THE STORM DRAIN SYSTEM. USE REGENERATIVE VACUUM STREET CLEANER TO MITIGATE AIR AND WATER POLLUTION.
- M. RUNOFF THAT HAS CONTACTED AMENDED SOIL AREAS SHALL NOT BE ALLOWED TO LEAVE THE SITE OR ENTER THE STORM DRAIN SYSTEM.



ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	03.18.24	DRAFT ASA SUBMITTAL

PROJECT NUMBER

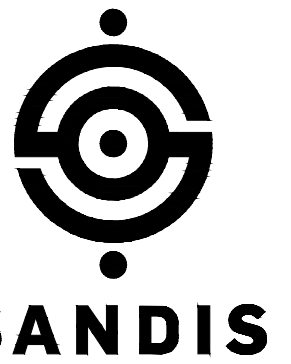
SHEET TITLE

EROSION CONTROL PLAN
SCALE

1"=30'

SHEET NUMBER

C-6.0



ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	03.18.24	DRAFT ASA SUBMITTAL

PROJECT NUMBER

SHEET TITLE

COUNTY BMP NOTES

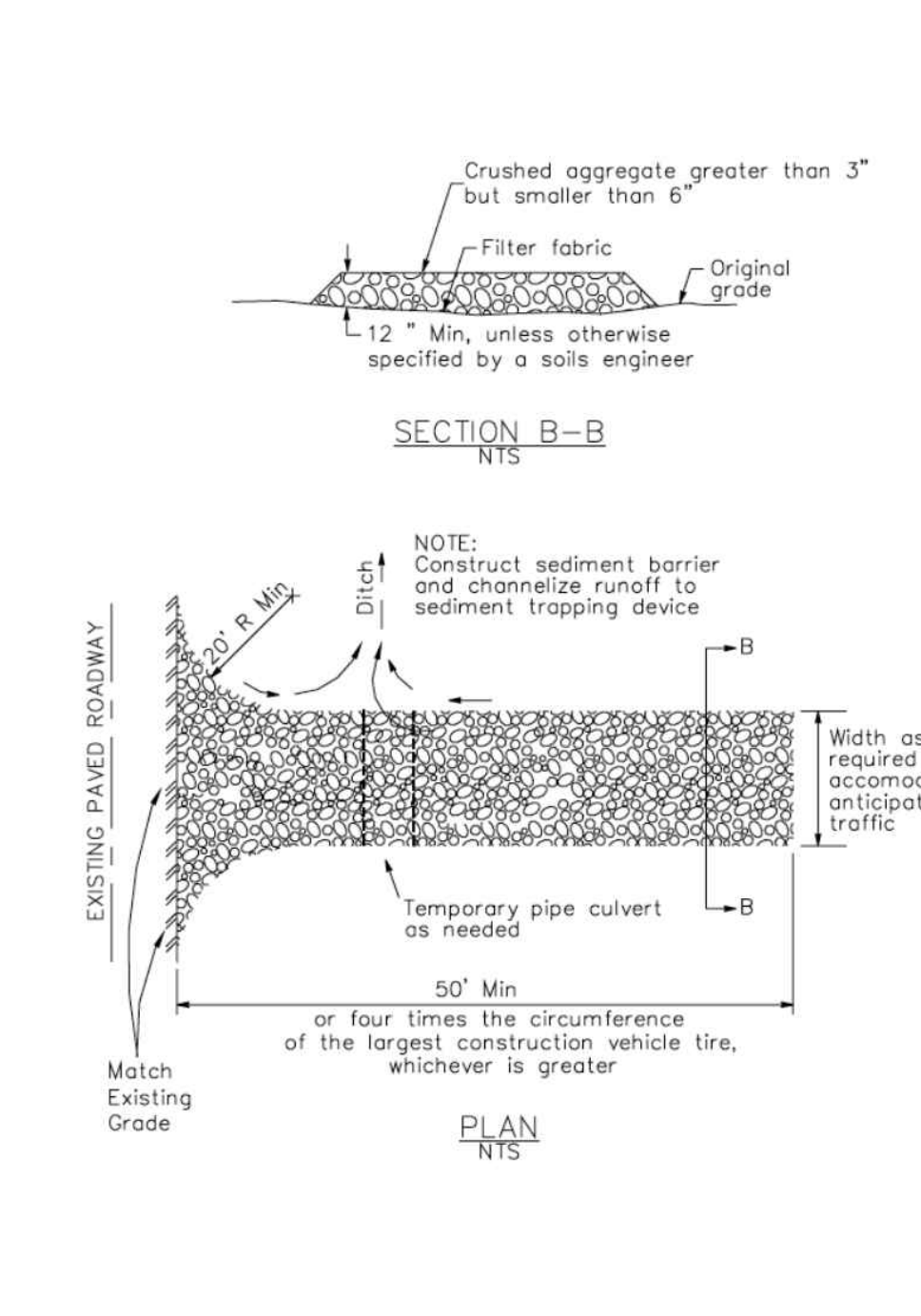
SCALE

N.T.S.

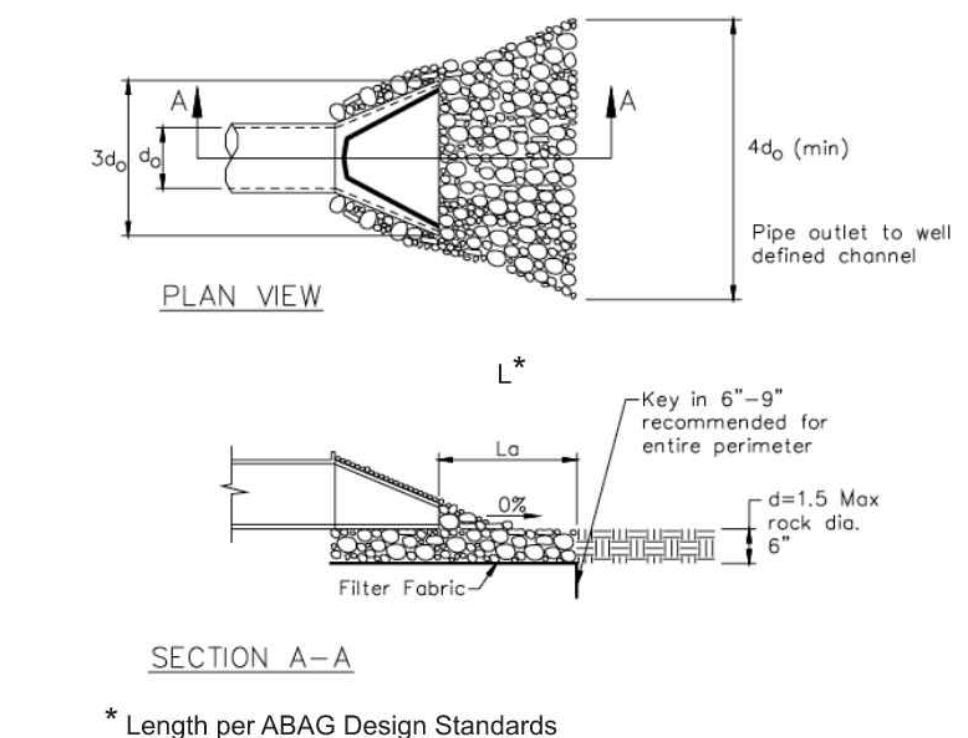
SHEET NUMBER

Project Information

3 Stabilized Construction Entrance/Exit
 CASQA Detail TC-1

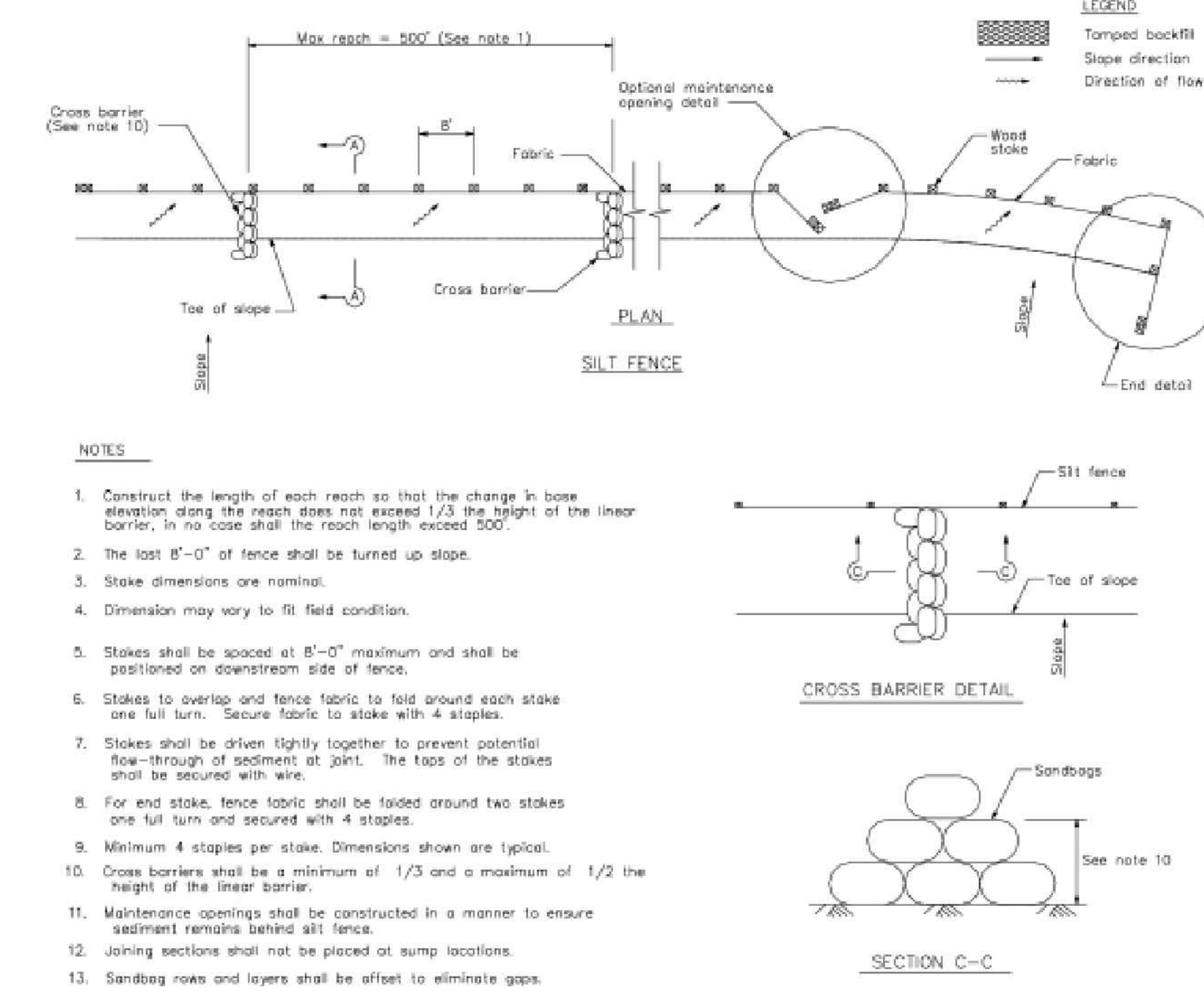


4 Velocity Dissipation Devices
 CASQA Detail EC-10

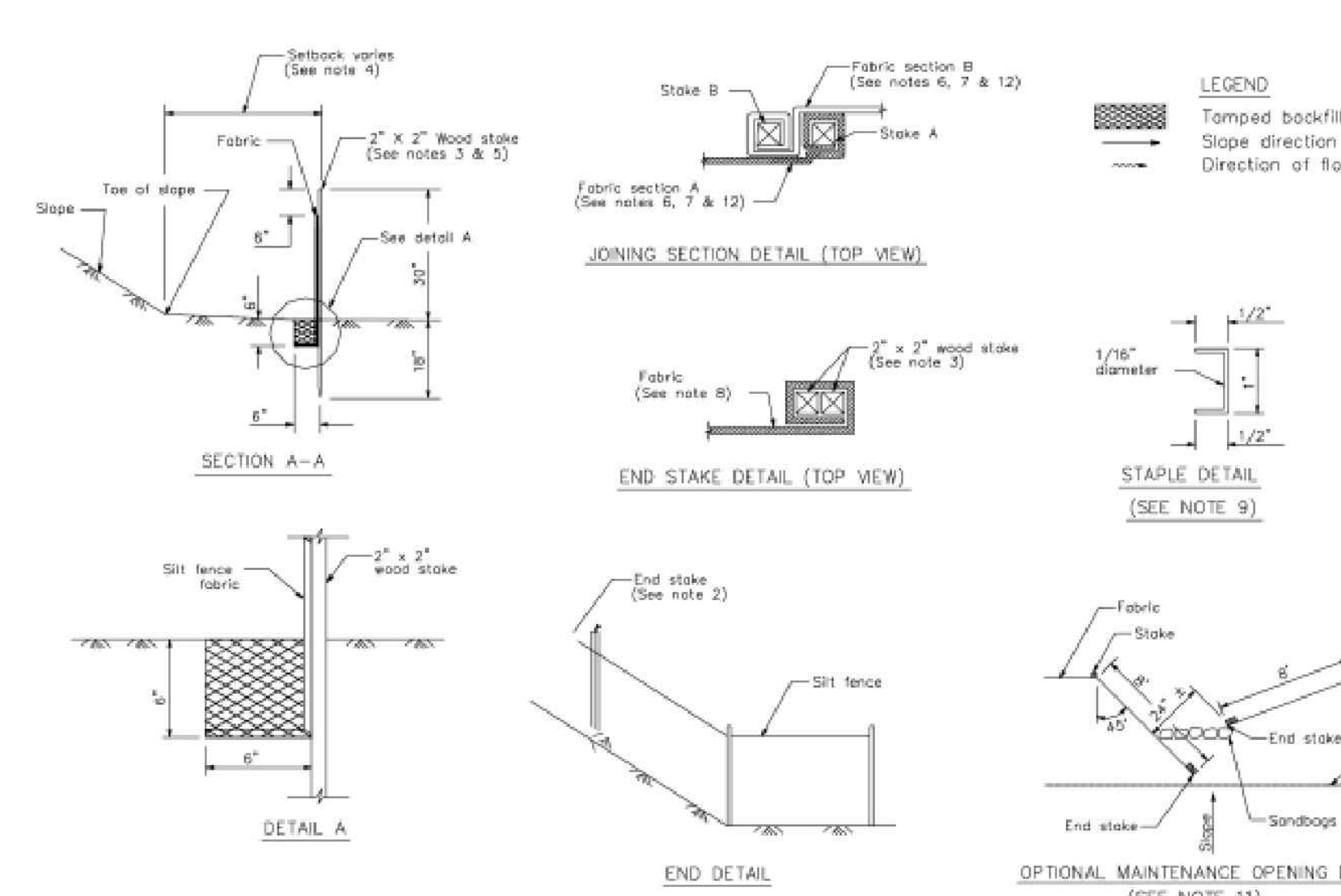


Source for Graphics: California Stormwater BMP Handbook, California Stormwater Quality Association, January 2003. Available from www.cabmphandbooks.com.

1 Silt Fence
 CASQA Detail SE-1



2 Silt Fence
 CASQA Detail SE-1



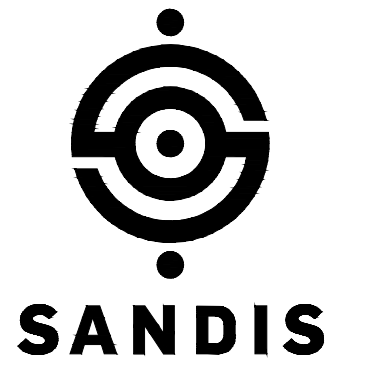
STANDARD BEST MANAGEMENT PRACTICE NOTES

- 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.
- 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.
- 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.
- 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.
- 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.
- Handling and Disposal of Concrete and Cement:** When concrete trucks and equipment are washed on-site, concrete wastewater shall be contained in designated containers or in a temporary lined and watertight pit where wasted concrete can harden for later removal. If possible have concrete contractor remove concrete wash water from site. In no case shall fresh concrete be washed into the road right-of-way. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages C-15 to C-16) or latest.
- 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.
- 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.
- 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.
- 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

- 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 rolls or staked silt fences can be used. Inlet filters are not allowed due to clogging and subsequent flooding. Refer to Erosion & Sediment Control Field Manual, 4th Edition (pages B-49 to B-51) or latest.
 - Storm Water Runoff:** No storm water runoff shall be allowed to drain in to the existing and/or proposed underground storm drain system or other above ground watercourses until appropriate erosion control measures are fully installed.
 - Dust Control:** The contractor shall provide dust control in graded areas as required by providing wet suppression or chemical stabilization of exposed soils, providing for rapid clean up of sediments deposited on paved roads, furnishing construction road entrances and vehicle wash down areas, and limiting the amount of areas disturbed by clearing and earth moving operations by scheduling these activities in phases.
 - Stockpiling:** Excavated soils shall not be placed in streets or on paved areas. Borrow and temporary stockpiles shall be protected with appropriate erosion control measures (tarps, straw bales, silt fences, etc.) to ensure silt does not leave the site or enter the storm drain system or neighboring watercourse.
- 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.
- 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.
- 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.
- 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.
- Erosion and sediment control best management practices shall be operable year round or until vegetation is fully established on landscaped surfaces.





ISSUES AND REVISIONS	
NO.	DESCRIPTION
03.18.24	DRAFT ASA SUBMITTAL

PROJECT NUMBER

SHEET TITLE

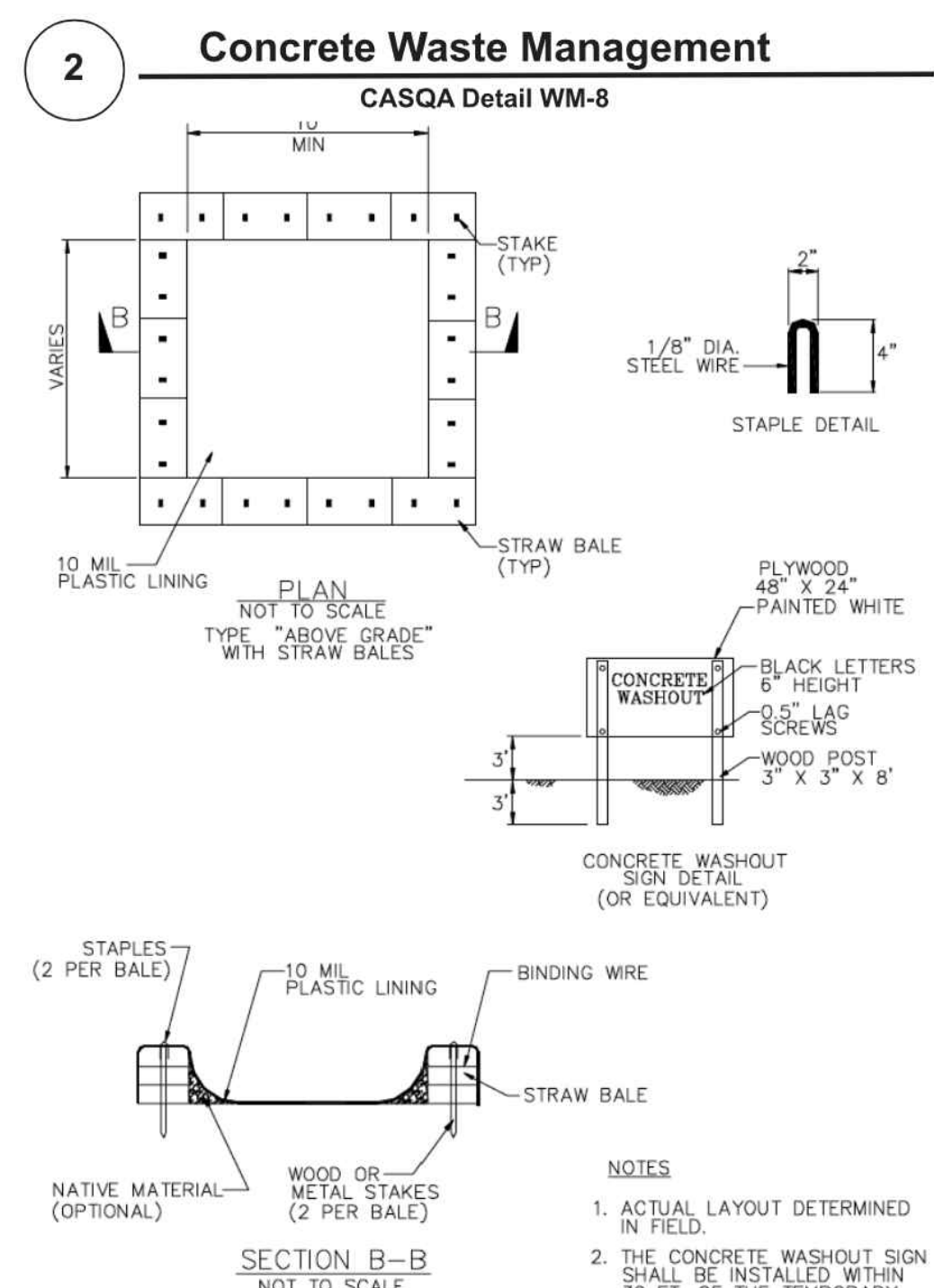
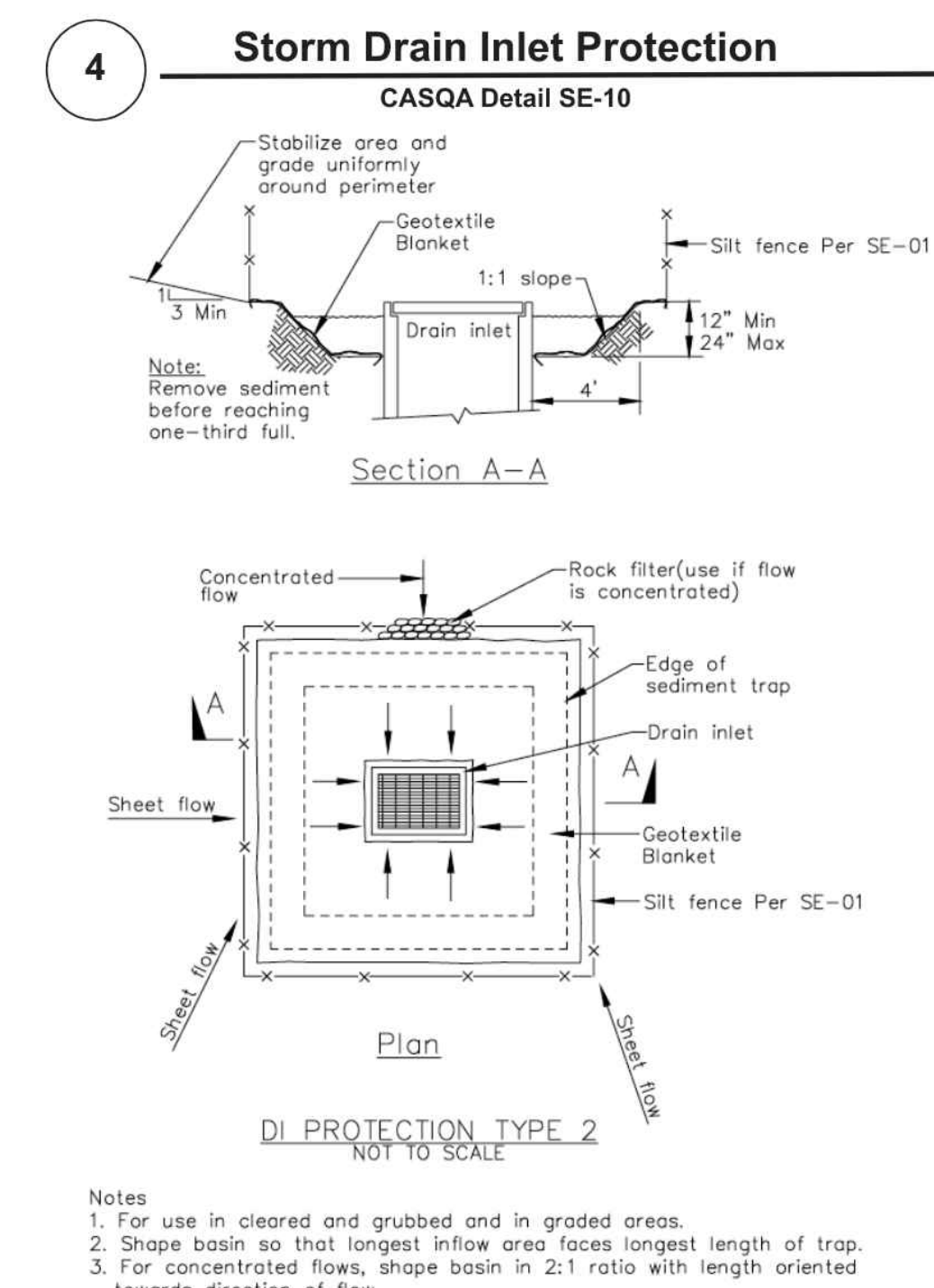
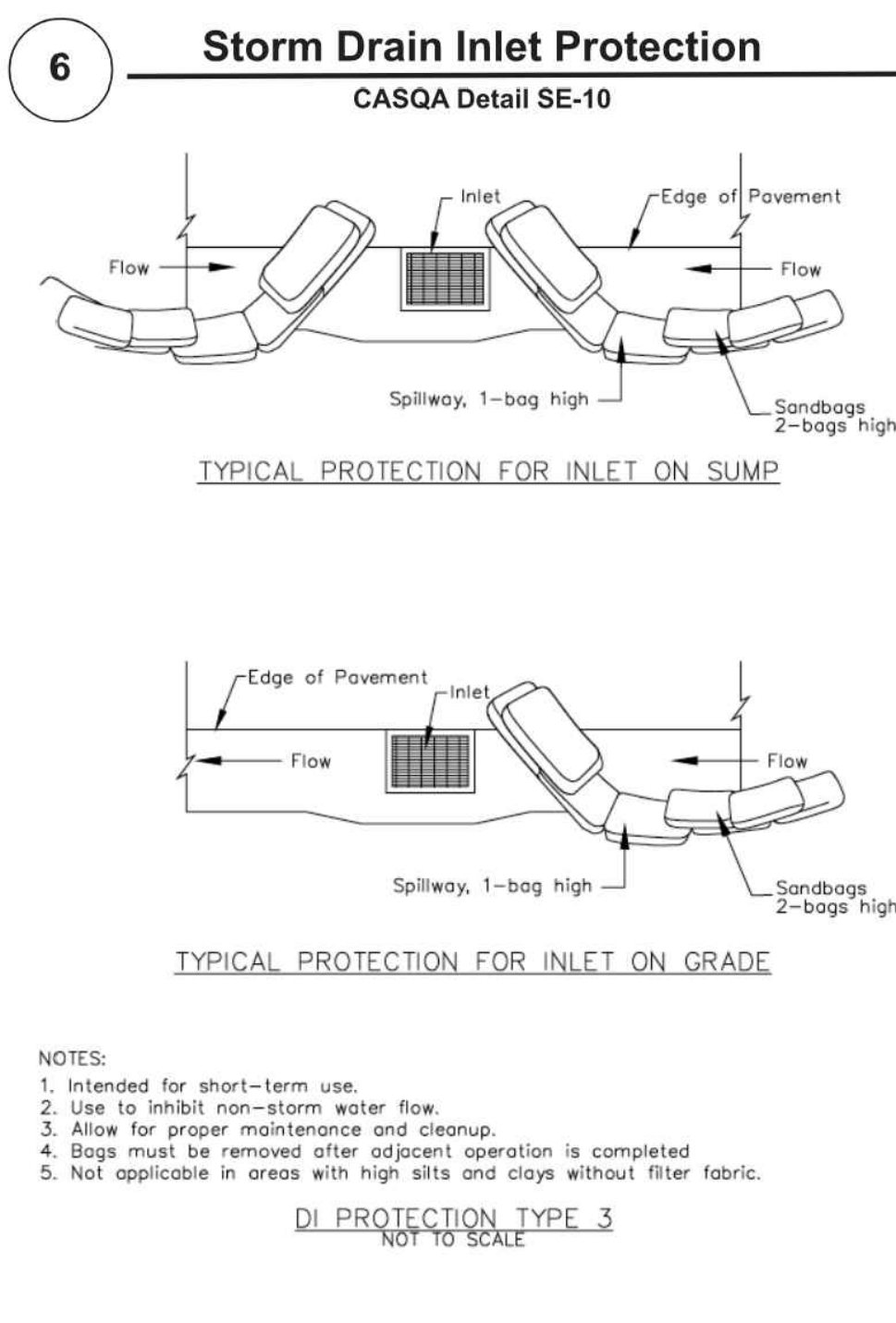
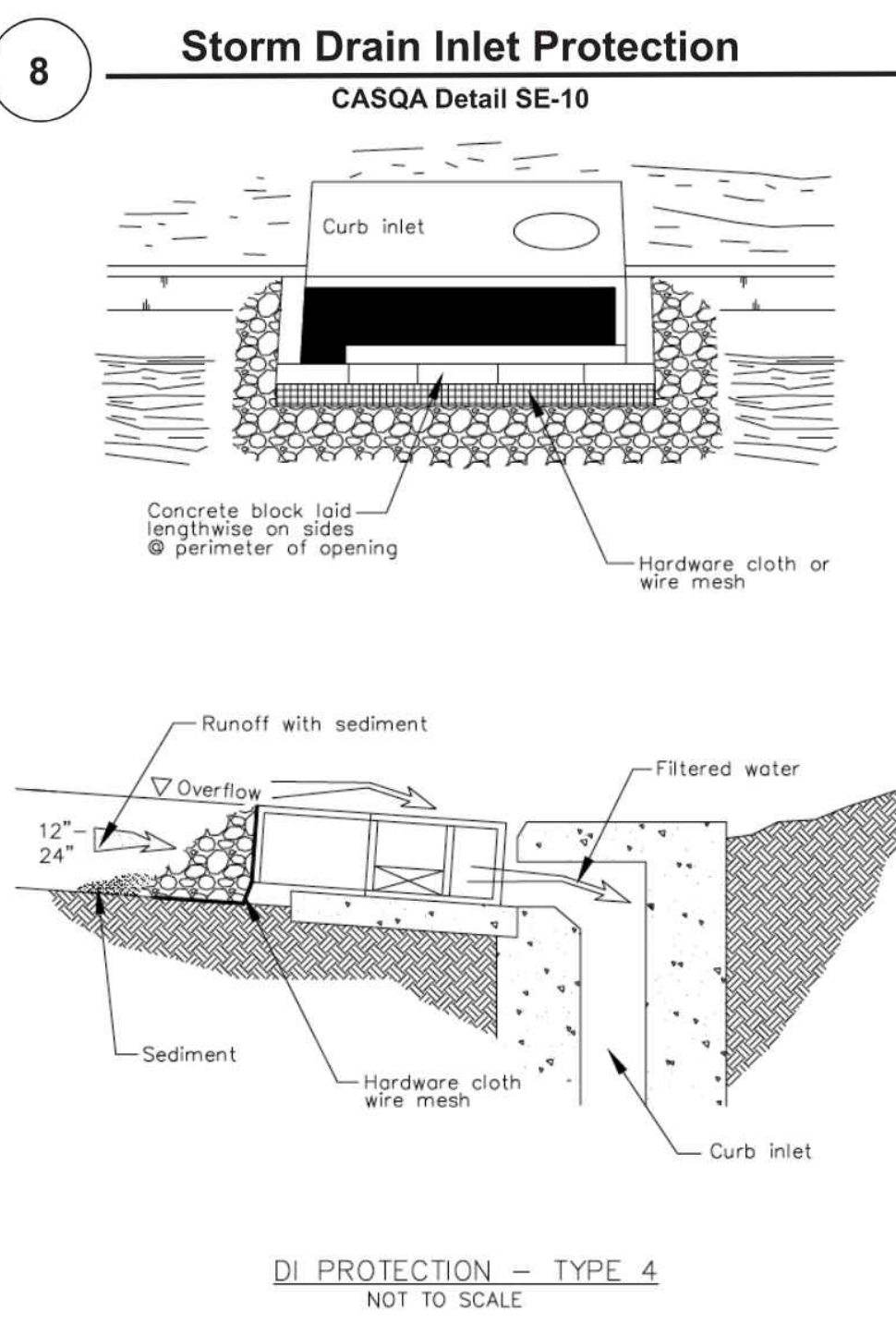
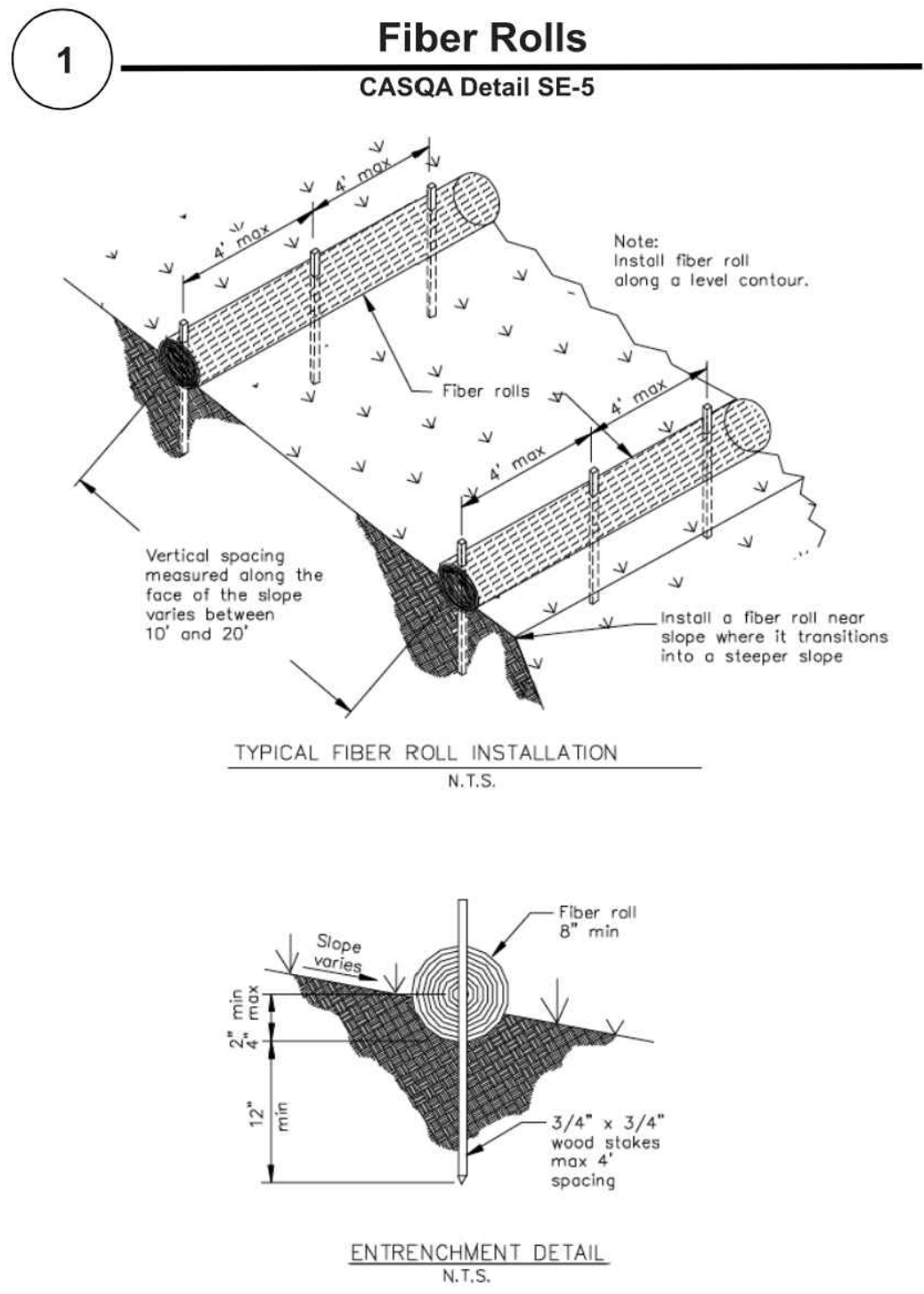
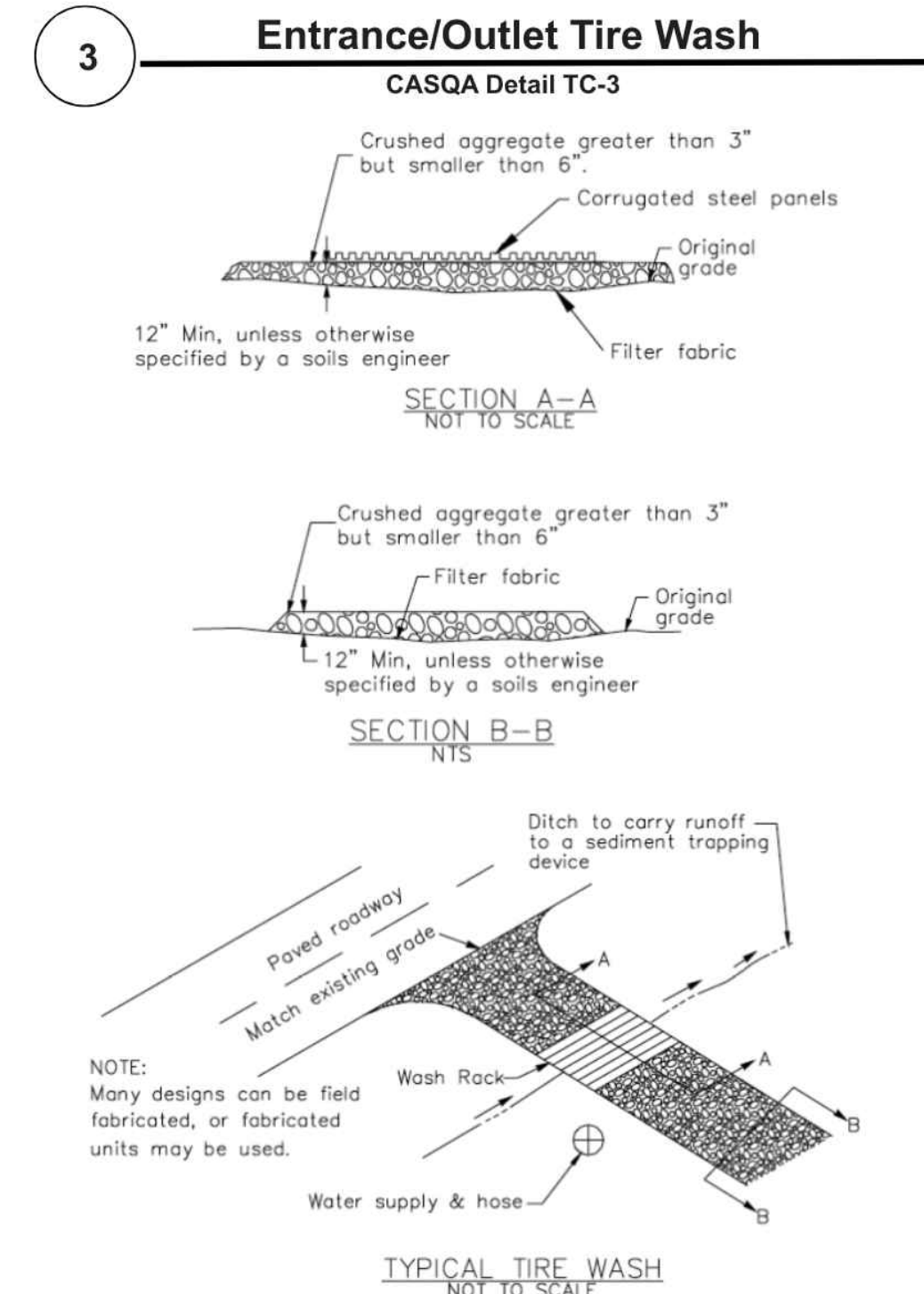
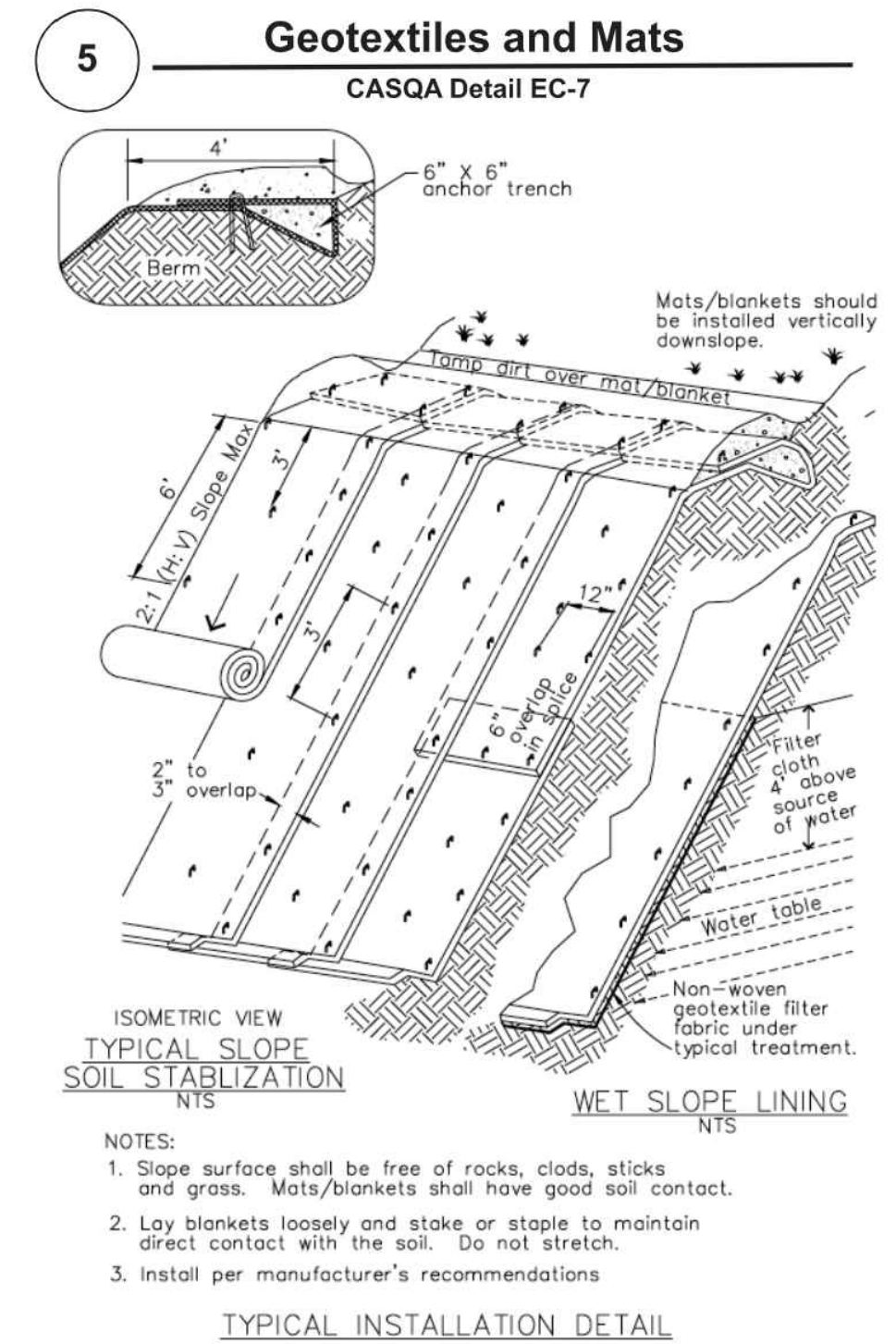
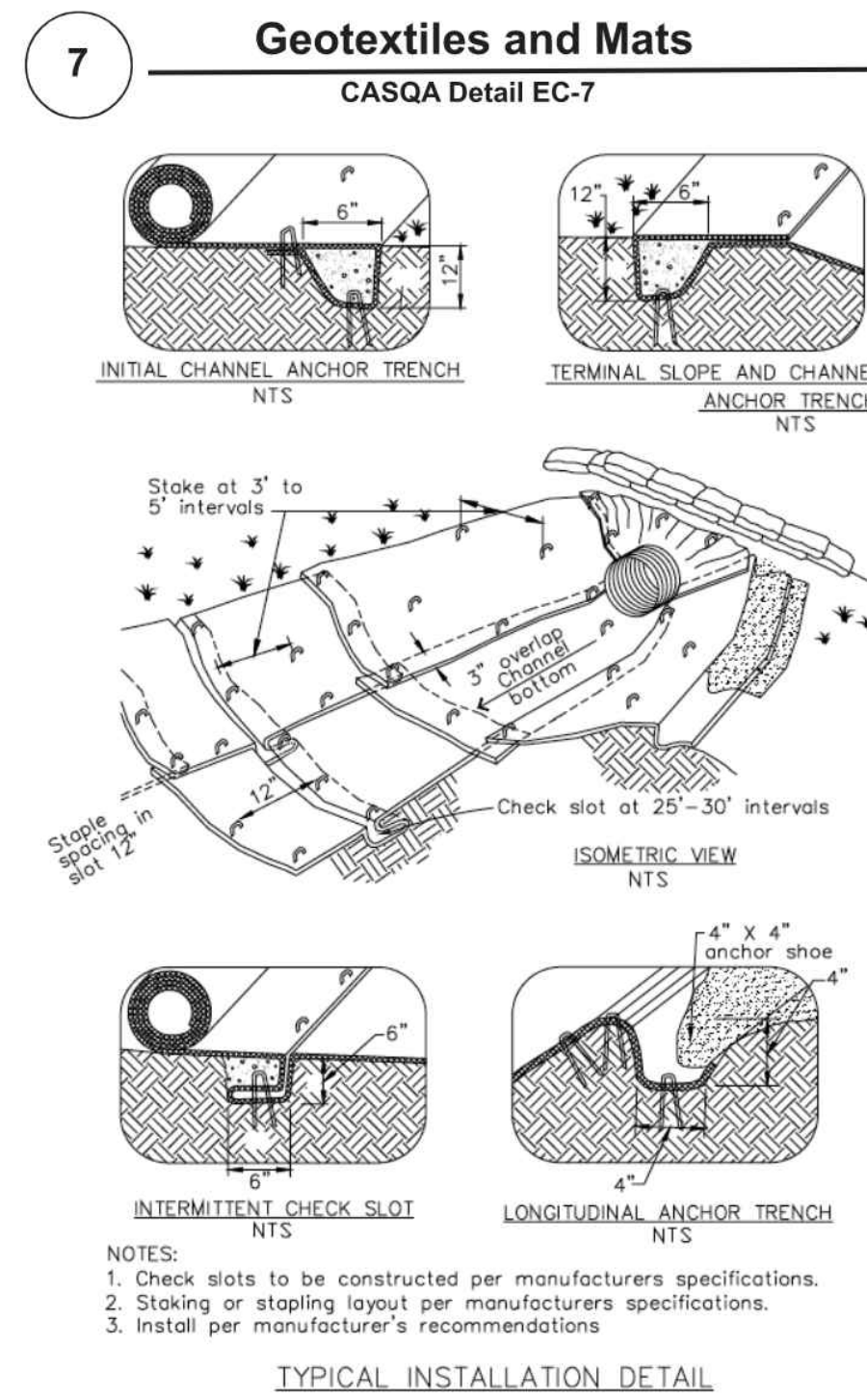
COUNTY BMP NOTES

SCALE

N.T.S.

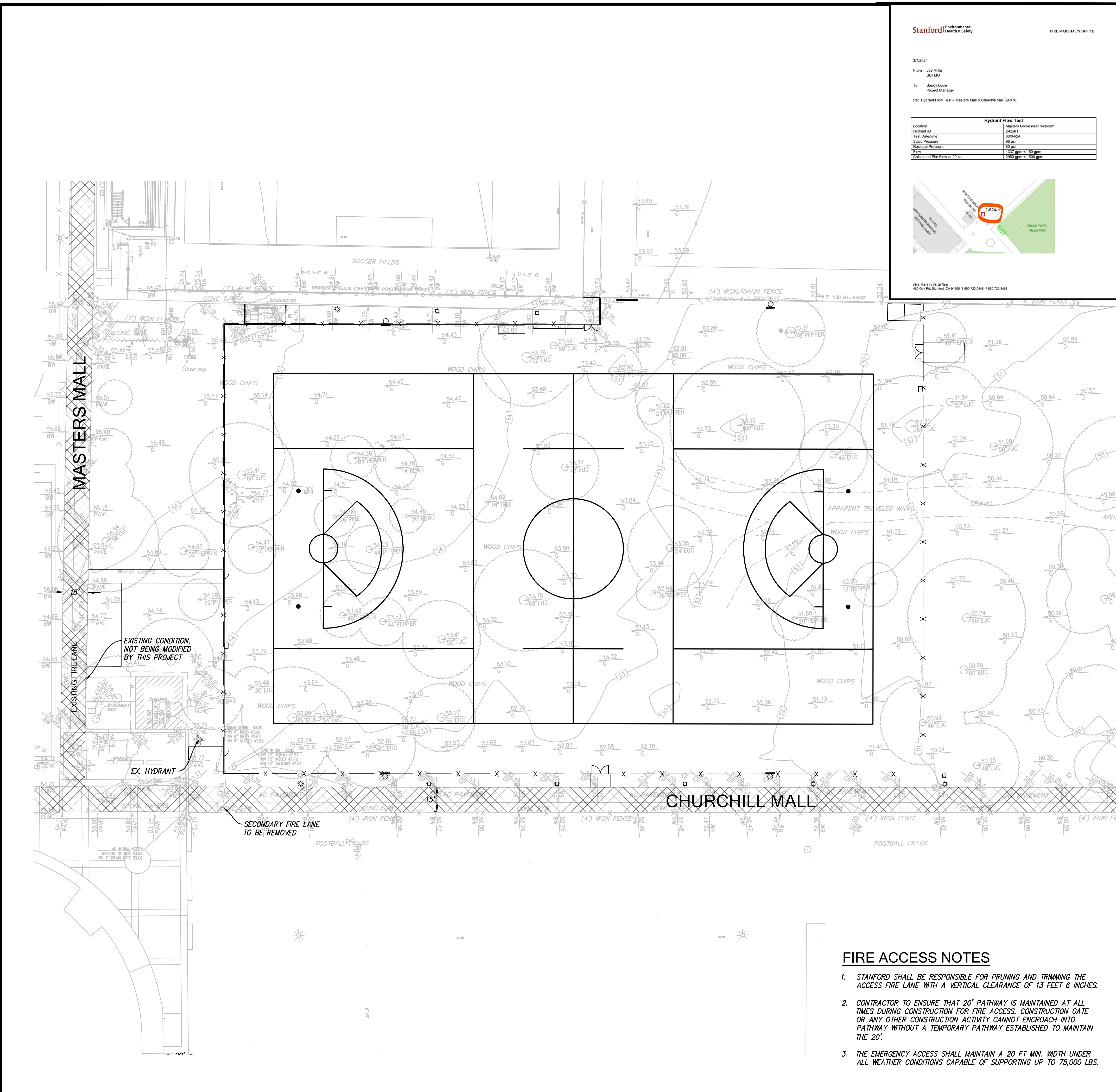
SHEET NUMBER

Project Information



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





Stanford Environmental Health & Safety FIVE MARSHAL'S OFFICE

3/7/2024

From: Joe Miller, RUPAD

To: Sandy Luke, Project Manager

Re: Hydrant Flow Test - Masters Mall & Churchill Mall 09-376

Hydrant Flow Test	
Location	Masters Gym near restroom
Hydrant ID	1-2040
Test Date/Time	03/04/24
Static Pressure	86 psi
Residual Pressure	86 psi
Flow	1333 gpm @ 50 gpm
Calculated Fire Flow at 20 psi	2800 gpm @ 500 gpm

FIVE MARSHAL'S OFFICE
481 Old Rd, Stanford, CA 94305 T: 650.723.0448 F: 650.725.3488

LEGEND

- EXISTING FIRE HYDRANT TO REMAIN
- SECONDARY FIRE ACCESS LANE

FIRE HYDRANT NOTES

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

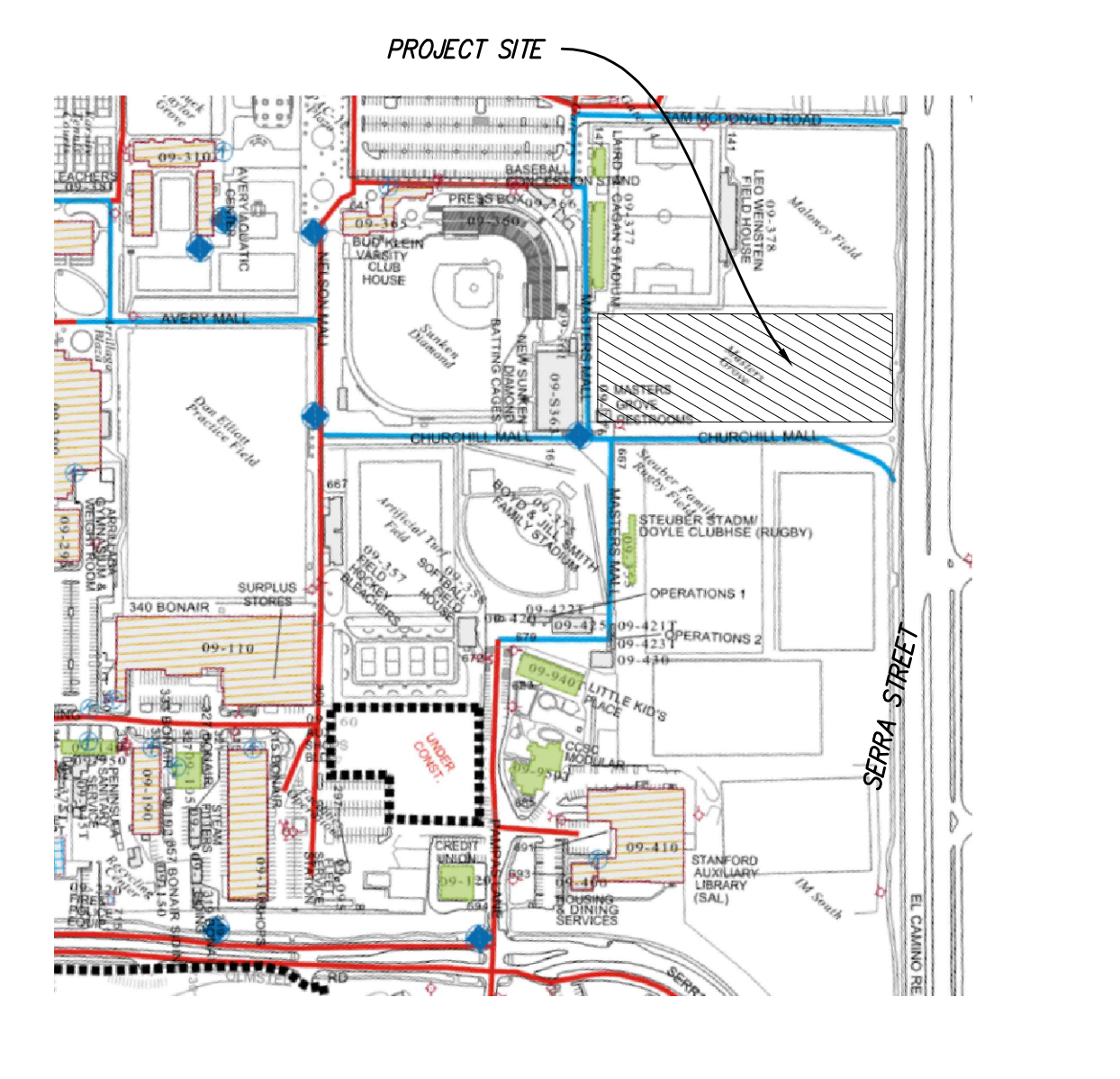
- "FLOW DURATION" MAY IMPACT NUMBER OF REQUIRED FIRE HYDRANTS.
- FIRE HYDRANTS AND FIRE APPLIANCES (FIRE DEPARTMENT CONNECTIONS AND POST INDICATOR VALVES) SHALL BE CLEARLY ACCESSIBLE AND FREE FROM OBSTRUCTION.

FIRE PROTECTION NOTES

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

FIRE ACCESS MAP

- Primary Access
- Secondary Access

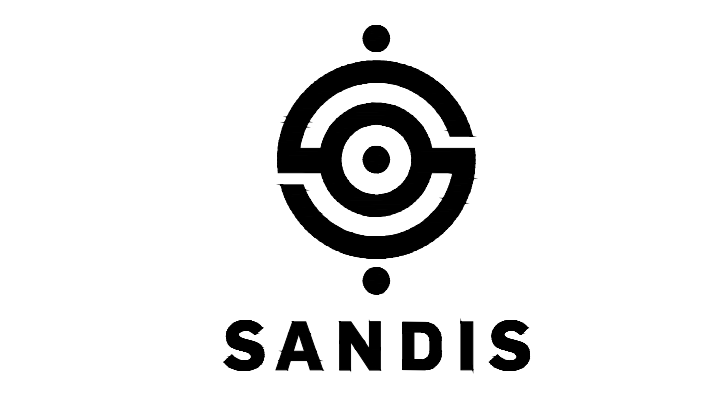


FIRE ACCESS NOTES

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

STANFORD UNIVERSITY

Project Name: Lacrosse Practice Field
Project Address: 657 Masters Mall,
Stanford CA. 94305
Quad/ Bldg. Number: 09-379



ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	03.18.24	DRAFT ASA SUBMITTAL

PROJECT NUMBER

SHEET TITLE

FIRE ACCESS PLAN

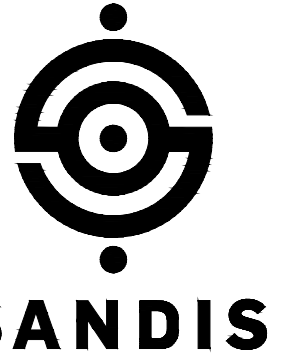
SCALE

1"=30'

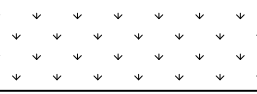
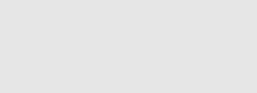

SHEET NUMBER

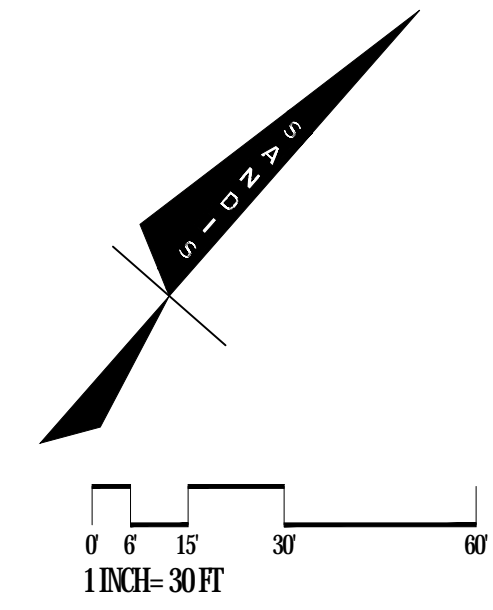
C-7.0

Project Name: Lacrosse Practice Field
 Project Address: 657 Masters Mall,
 Stanford CA. 94305
 Quad/ Bldg. Number: 09-379



**STORMWATER
 MANAGEMENT PLAN LEGEND**

-  PROPOSED PERVIOUS AREA (136,886 SF)
-  PROPOSED IMPERVIOUS AREA (3,409 SF)
-  DMA BOUNDARY



**STORMWATER MANAGEMENT
 NOTES:**

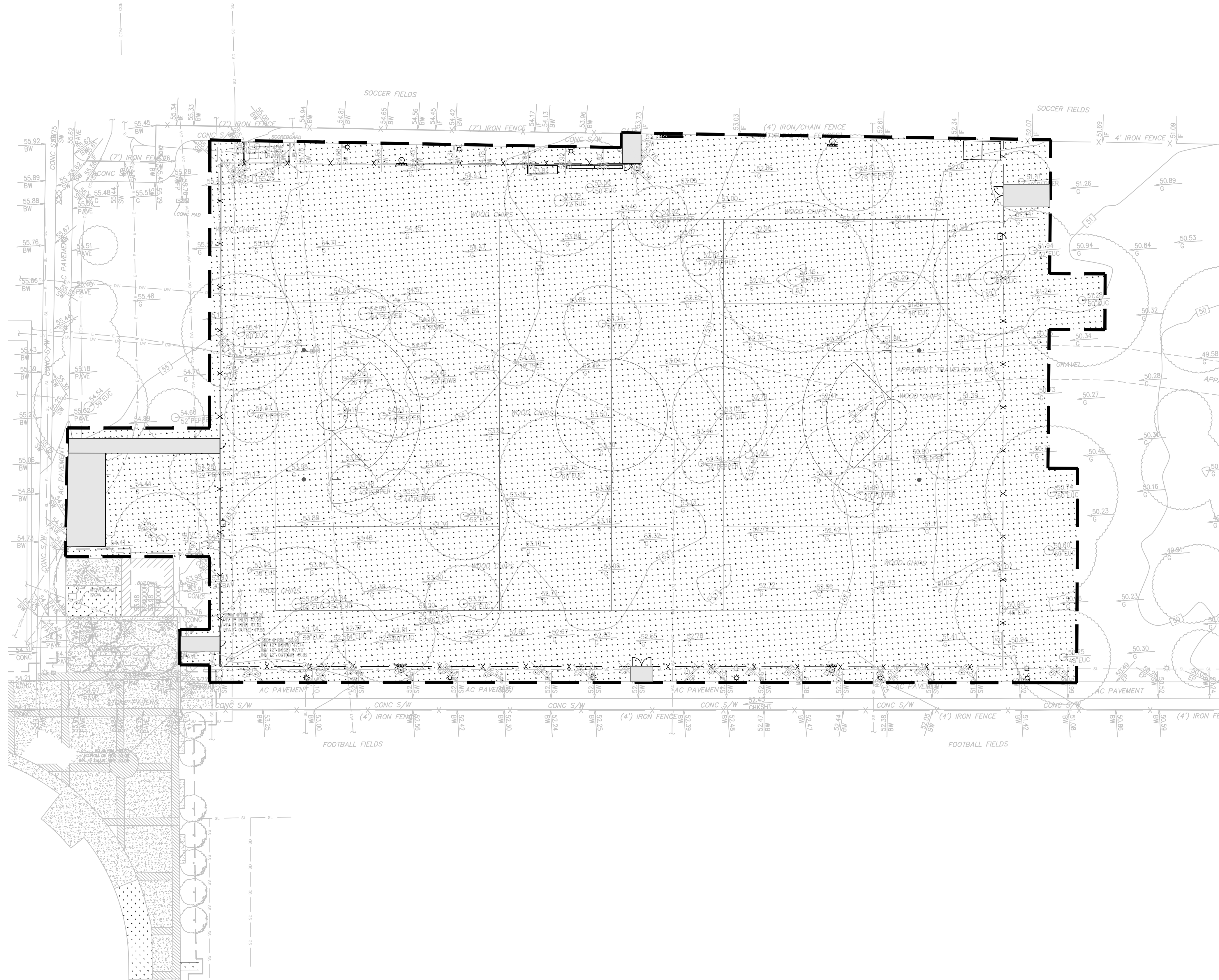
THIS PROJECT CREATES/REPLACES LESS THAN 5,000 SF OF IMPERVIOUS SURFACE AND IS EXEMPTED FROM THE LID REQUIREMENTS OF PROVISION C.3.

DRAINAGE AREA:

PROPOSED IMPERVIOUS	3,409 SF
PROPOSED PERVIOUS	135,886 SF
REPLACED VEHICULAR IMPERVIOUS	139,275 SF

**EXISTING AND PROPOSED
 AREA QUANTITIES**

	EXISTING	PROPOSED
IMPERVIOUS	0 SF	3,409 SF
PERVIOUS	139,275 SF	135,886 SF
TOTAL	139,275 SF	139,275 SF



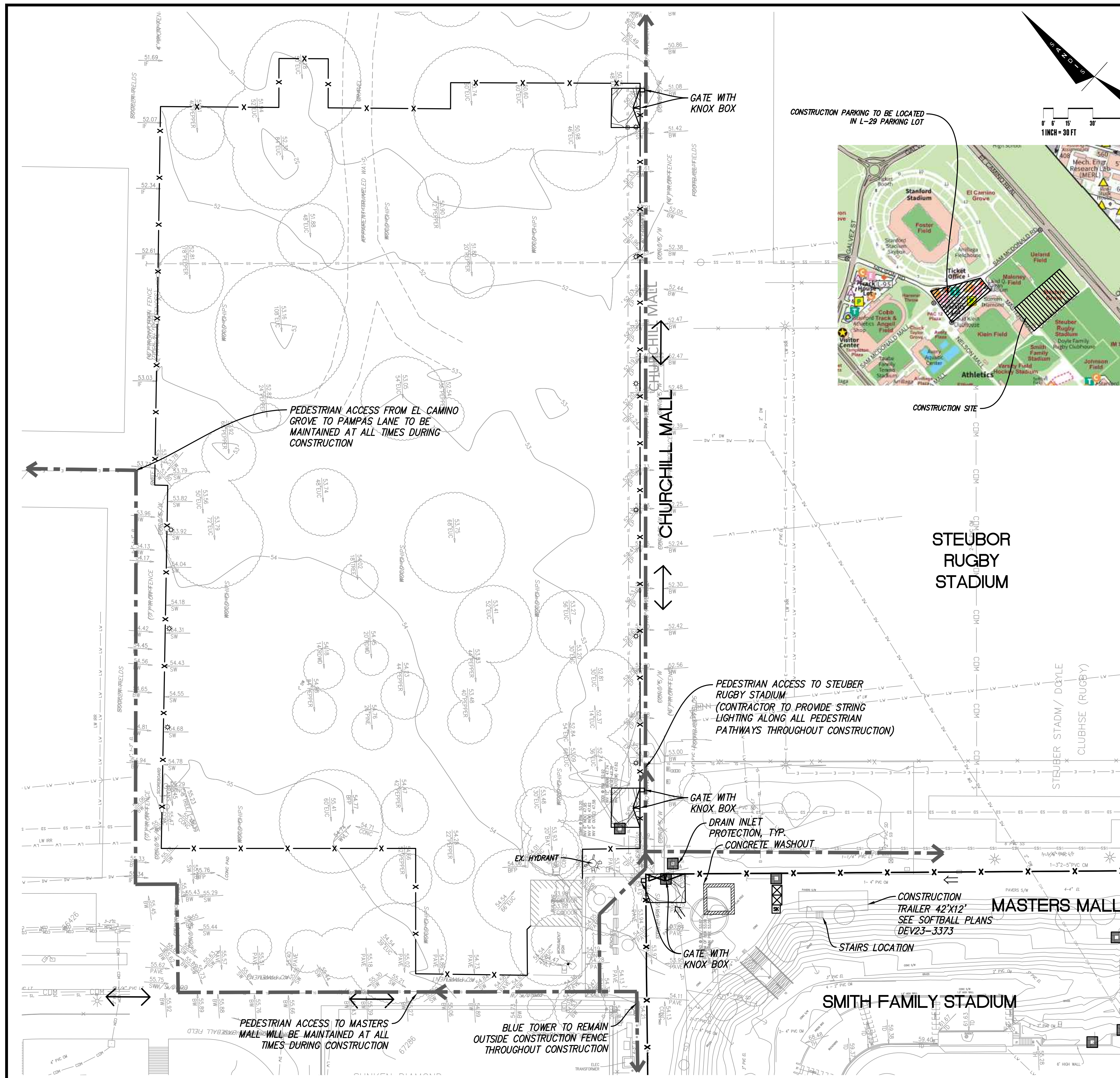
ISSUES AND REVISIONS	
NO.	DESCRIPTION
03.18.24	DRAFT ASA SUBMITTAL

PROJECT NUMBER

SHEET TITLE
**STORMWATER
 MANAGEMENT PLAN**
 SCALE

1"=30'

SHEET NUMBER

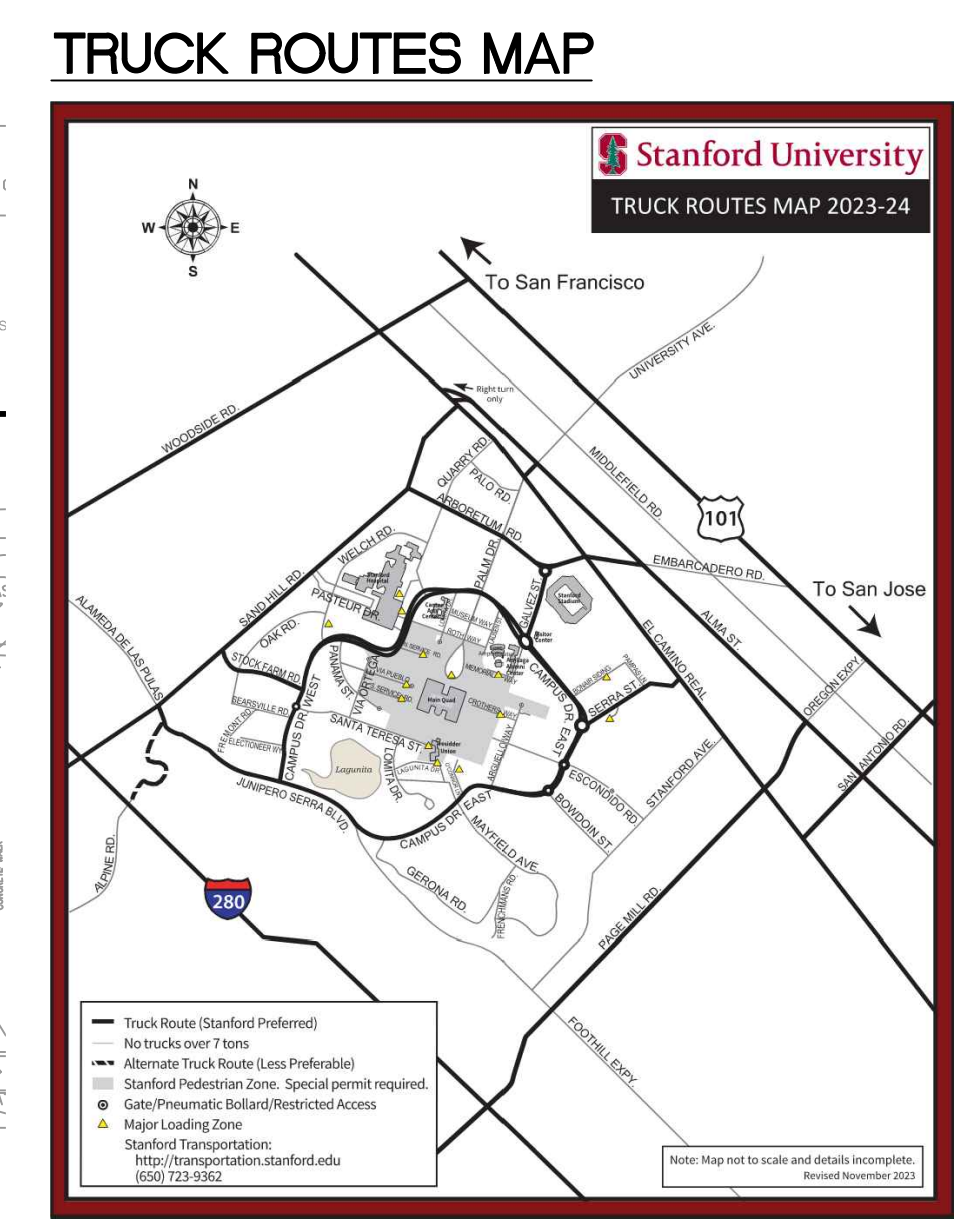
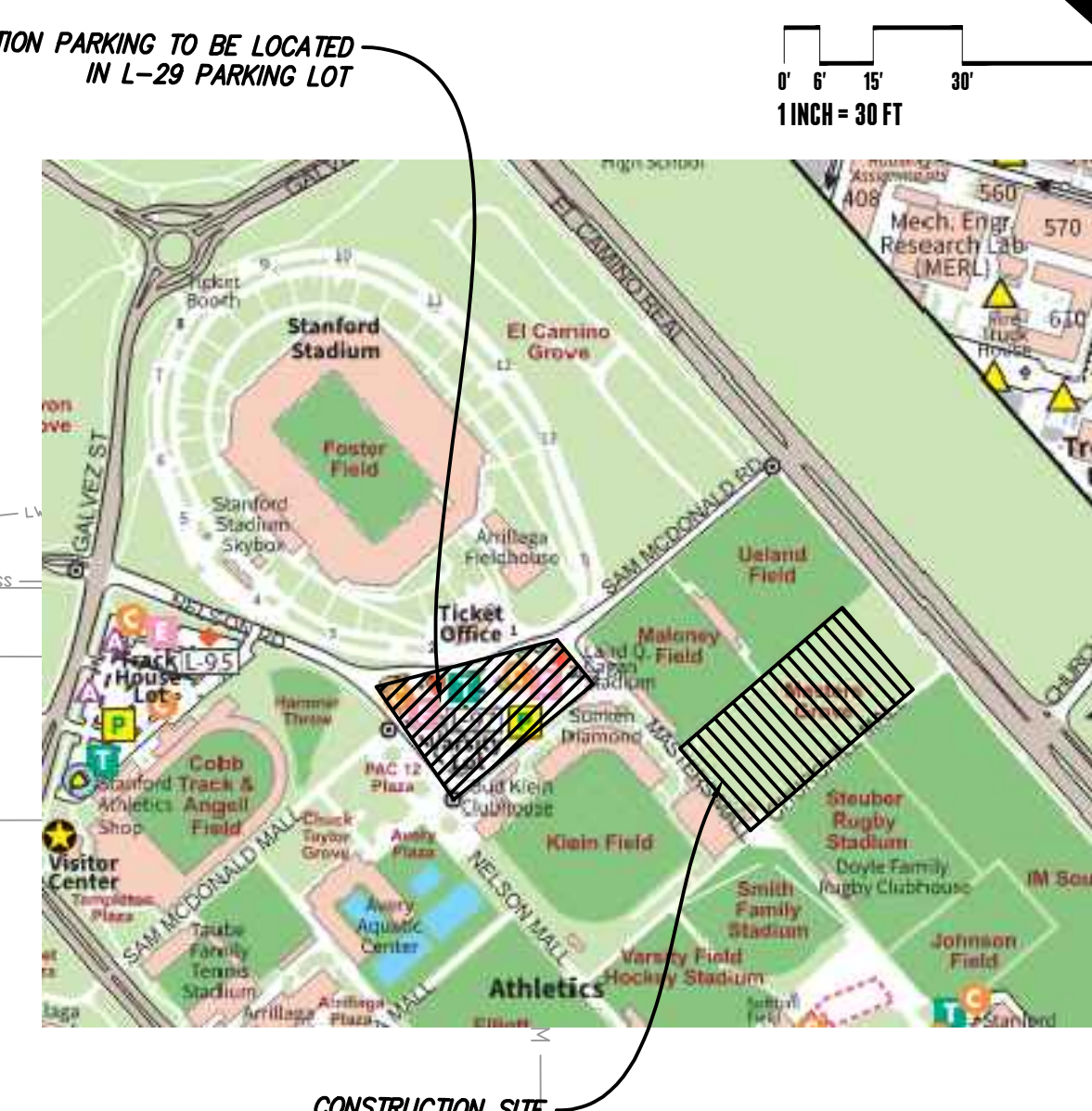


LEGEND:

- CONSTRUCTION/FIRE TRUCK ACCESS ROUTES
- X- TEMPORARY CONSTRUCTION FENCE/ LIMIT OF WORK
- EXISTING TREE TO REMAIN. SEE DETAIL 1, SHEET C-3.0 FOR PROTECTION REQUIREMENTS
- ⊕ EXISTING FIRE HYDRANT
- ⊠ PORTABLE RESTROOM
- ⊡ SPILL KIT
- ▭ CONSTRUCTION TRAILER
- PEDESTRIAN CROSSING

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

- CONSTRUCTION NOTES:**
- CONSTRUCTION DELIVERY TIMES / ROUTES**
 - CONSTRUCTION MATERIALS AND FILL DIRT DELIVERED FROM OFF CAMPUS SHALL NOT BE DELIVERED BETWEEN THE HOURS OF 7:00 AM AND 9:00 AM AND 4:00 PM TO 6:00 PM ON WEEKDAYS.
 - TRUCKS BRINGING IN FILL DIRT AND BUILDING MATERIALS FOR THE PROJECT FROM OFF-SITE SHALL BE REQUIRED TO USE TRUCK ROUTES SHOWN ON FIGURE 3 OF THE INITIAL STUDY AS DESIGNATED BY THE CITIES OF PALO ALTO AND MENLO PARK.
 - NOISE CONTROL**
CONSTRUCTION PRACTICES SHALL COMPLY WITH THE REQUIREMENTS OF THE COUNTY OF SANTA CLARA NOISE CONTROL ORDINANCE AND ARE TO BE MONITORED BY THE GENERAL CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. THE SUP. REQUIRES THE FOLLOWING MEASURES TO REDUCE OPERATIONAL NOISE DURING CONSTRUCTION.
 - MECHANICAL EQUIPMENT WITHIN 50 FEET OF A RESIDENCE SHALL BE ACOUSTICALLY ENGINEERED.
 - THE BUILDING DESIGN SHALL INCORPORATE DESIGN MEASURES TO LOCATE NOISE SOURCES SUCH AS LOADING ZONES, TRASH BINS AND MECHANICAL EQUIPMENT AS FAR AWAY FROM NOISE SENSITIVE RECEPTORS AS POSSIBLE.
 - ALL OPERATIONAL NOISE SOURCES SHALL COMPLY WITH THE COUNTY NOISE ORDINANCE.
 - THE CONTRACTOR SHALL COORDINATE PLANNED CLASSROOM RELOCATIONS PRIOR TO DEMOLITION OR SITE PREPARATION.
 - FOR CONSTRUCTION ACTIVITIES THAT WOULD AFFECT SENSITIVE NOISE RECEPTORS OFF-CAMPUS OR IN AREAS DESIGNATED CAMPUS RESIDENTIAL IN THE COMMUNITY PLAN, THE CONTRACTOR SHALL GIVE ADVANCED REGULAR NOTIFICATION OF CONSTRUCTION ACTIVITY SCHEDULED TO THE POTENTIALLY AFFECTED RESIDENTS.
 - CONTRACTOR TO PROVIDE A MINIMUM OF ONE 2-A-20-B-C PORTABLE FIRE EXTINGUISHER WITHIN 30 FEET OF THE LOCATION WHERE HOT WORK IS PERFORMED, IN ACCORDANCE WITH CFC 2604.2.6. ADDITIONALLY, STRUCTURES UNDER CONSTRUCTION, ALTERATION OR DEMOLITION SHALL BE PROVIDED WITH NO LESS THAN ONE APPROVED PORTABLE FIRE EXTINGUISHER SIZED FOR NOT LESS THAN ORDINARY HAZARD AT EACH STAIRWAY ON ALL FLOOR LEVELS WHERE COMBUSTIBLE MATERIALS HAVE ACCUMULATED, IN EVERY STORAGE/CONSTRUCTION SHED, AND WHERE SPECIAL HAZARDS EXIST INCLUDING, BUT NOT LIMITED TO, THE STORAGE AND USE OF FLAMMABLE AND COMBUSTIBLE LIQUIDS IN ACCORDANCE WITH CFC 1415.1.
 - CONTRACTOR SHALL RESTORE ALL AREAS ADJACENT TO THE SITE THAT HAVE BEEN IMPACTED BY CONSTRUCTION OF THIS PROJECT. AREAS IMPACTED BY CONSTRUCTION MAY INCLUDE AREAS AT THE EDGE OF SITES AND BEYOND THE LIMIT OF WORK SHOWN ON THE PROJECT PLANS.
 - WALK TRUCKS TO AND FROM NELSON MALL TO CONSTRUCTION ENTRANCE DURING CONSTRUCTION.



STANFORD UNIVERSITY

Project Name: Lacrosse Practice Field
 Project Address: 657 Masters Mall,
 Stanford CA. 94305
 Quad/ Bldg. Number: 09-379



ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	03.18.24	DRAFT ASA SUBMITTAL

PROJECT NUMBER

SHEET TITLE

CONSTRUCTION SITE LOGISTICS/SAFETY PLAN

SCALE

AS NOTED

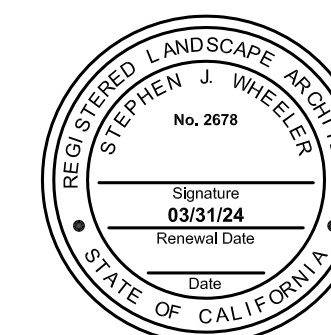
SHEET NUMBER

C-9.0

Project Name: Lacrosse Practice Field
 Project Address: 657 Masters Mall,
 Stanford CA, 94305
 Quad/ Bldg. Number: 09-379

Stephen Wheeler
 Landscape Architects
 744 Alabama Street, #331
 San Francisco, CA
 415-252-7075

PO Box 460116
 San Francisco, CA
 94146



ISSUES AND REVISIONS	
NO.	DESCRIPTION
03.06.2024	DRAFT ASA SUBMITTAL

PROJECT NUMBER

SHEET TITLE

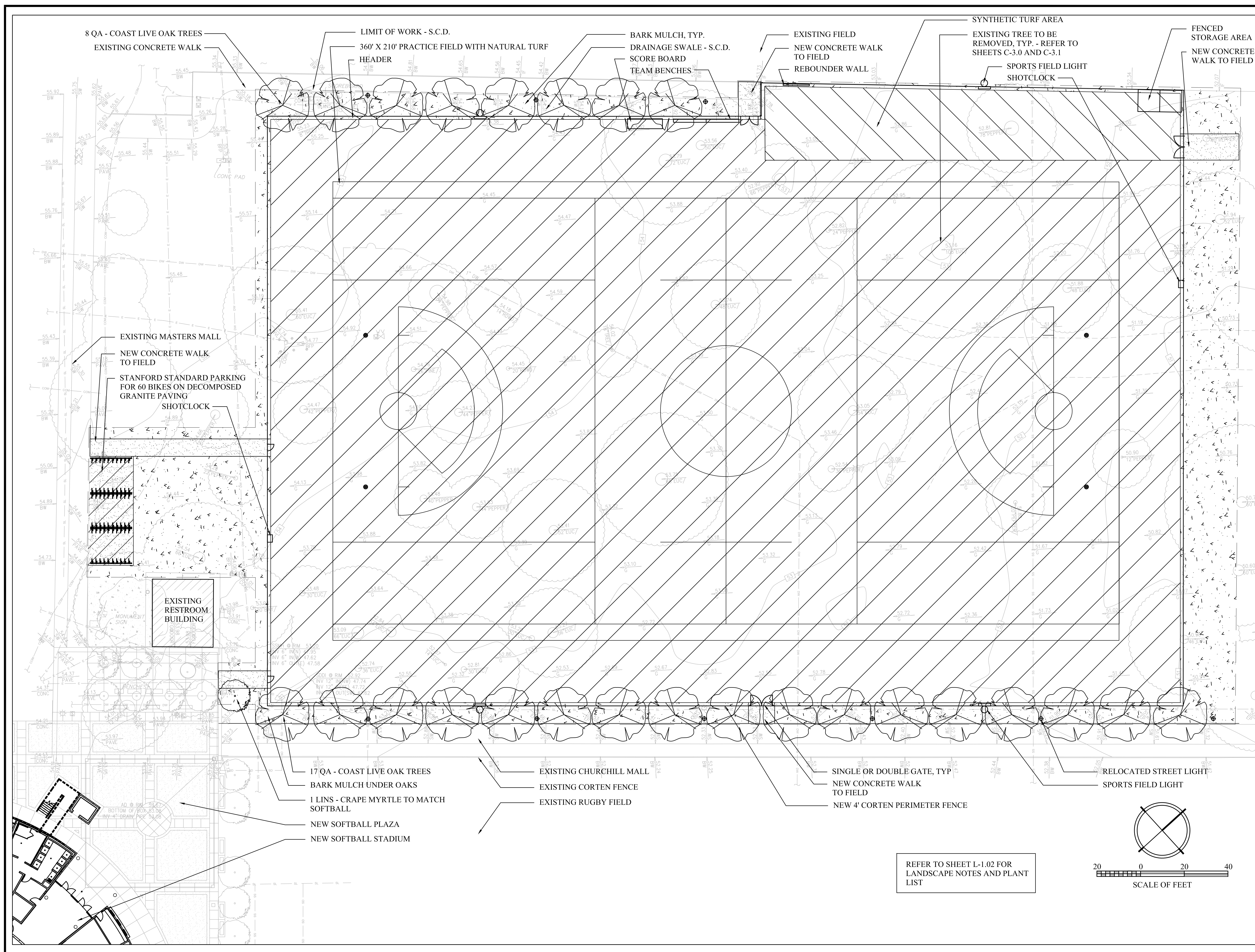
LANDSCAPE PLAN

SCALE

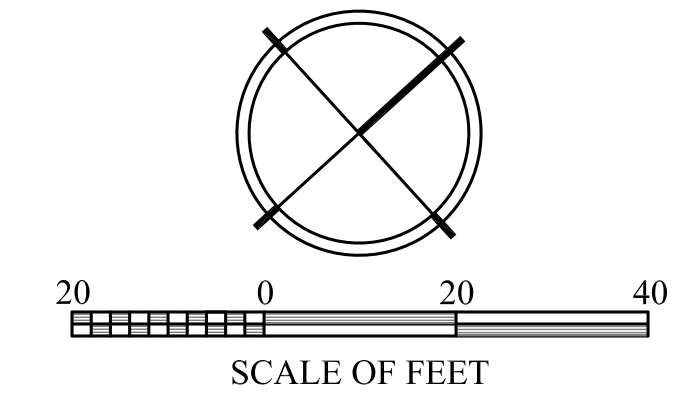
1" = 20'-0"

SHEET NUMBER

L-1.01



REFER TO SHEET L-1.02 FOR
 LANDSCAPE NOTES AND PLANT
 LIST



LANDSCAPE DESIGN CONCEPT

THE LANDSCAPE DESIGN FOR THE PROJECT EXTENDS THE EXISTING STREETScape FABRIC OF CHURCHILL MALL ALONG THE FRONT OF THE NEW LACROSSE FIELD. THE MALL WILL BE PLANTED WITH COAST LIVE OAK TREES SET IN A BARK MULCH PLANTER. THE FIELD WILL BE FENCED WITH A 4' HIGH CORTEN FENCE TO MATCH THE FENCING USED THROUGHOUT THE DAPER AREA.

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 WALTER LEVISON, CONSULTING ARBORIST, FOR TREES TO BE SAVED AND REMOVED.
2. REFER TO TREE PROTECTION AND REMOVAL NOTES ON SHEETS C-3.0 AND 3.1.

PLANTING NOTES

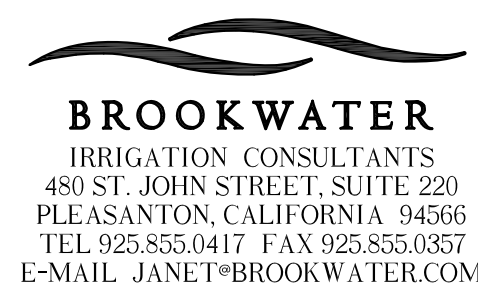
1. PROJECT SHALL COMPLY WITH SANTA CLARA COUNTY, AND STANFORD UNIVERSITY PLANTING REQUIREMENTS, INCLUDING:
 - 1.1 SOIL SHALL BE CONDITIONED AND AMENDED AS PER THE RESULTS OF A SOILS TEST.
 - 1.2 ALL SHRUB AND GROUND COVER AREAS SHALL BE MULCHED WITH 3" DEPTH OF BARK OR GRAVEL MULCH.
2. REFER TO CIVIL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

IRRIGATION NOTES

1. THE IRRIGATION SYSTEM SHALL BE DESIGNED BY A CERTIFIED IRRIGATION DESIGNER TO MEET SANTA CLARA COUNTY AND STANFORD UNIVERSITY REQUIREMENTS AND MAWA STANDARDS.
2. TREES WILL BE IRRIGATED WITH 2 PRESSURE COMPENSATING BUBBLER PER TREE.
3. SHRUBS WILL BE IRRIGATED WITH 1 PRESSURE COMPENSATING BUBBLER PER SHRUB.
4. GROUND COVER AREAS WILL BE WATERED WITH SUBSURFACE DRIPLINE.
5. NATIVE GRASS AREAS WILL BE WATERED WITH OVERHEAD SPRAY HEADS.
6. LAWN AREAS WILL BE WATERED WITH OVERHEAD SPRAY HEADS.
7. 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	
+/- 520 SF	LOW - 0.5%	NEW TREES
+/- 117,145 SF	HIGH - 83.0%	SPECIAL USE LAWN AREA
+/- 6,140 SF	NONE - 4.5%	SYNTHETIC TURF AREA
+/- 17,110 SF	NONE - 12%	BARK MULCH AREA
+/- 141,715 SF	TOTAL AREA	



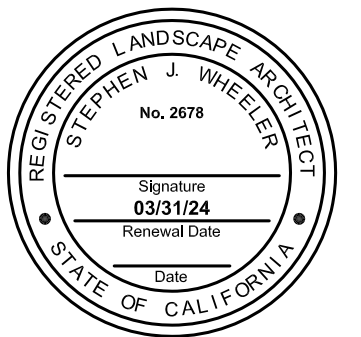
PLANT LIST

KEY	QTY	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	WATER USAGE
<u>TREES</u>							
	1	LINS	LAGERSTROEMIA INDICA	CRAPPE MYRTLE	36" BOX		L
	25	QA	QUERCUS AGRIFOLIA	COAST LIVE OAK	36" BOX		VL
<u>GROUND COVER</u>							
	-		NATURAL TURF	SOD TO MATCH STANFORD STANDARD			H
	-		SYNTHETIC TURF	MATCH STANFORD STANDARD			NONE
	-		BARK MULCH	MATCH STANFORD STANDARD			NONE

Project Name: Lacrosse Practice Field
Project Address: 657 Masters Mall,
Stanford CA, 94305
Quad/ Bldg. Number: 09-379

Stephen Wheeler
Landscape Architects
744 Alabama Street, #331
San Francisco, CA
415-252-7075

PO Box 460116
San Francisco, CA
94146



ISSUES AND REVISIONS		
NO.	DATE	DESCRIPTION
	03.06.2024	DRAFT ASA SUBMITTAL

PROJECT NUMBER

SHEET TITLE

LANDSCAPE NOTES

SCALE

NO SCALE

SHEET NUMBER

L-1.02

Stanford Practice Lacrosse

Stanford, CA

Lighting System

Pole / Fixture Summary						
Pole ID	Pole Height	Mtg Height	Fixture Qty	Luminaire Type	Load	Circuit
F1-F4	80'	80'	2	TLC-LED-1200	2.34 kW	A
		80'	10	TLC-LED-1500	14.10 kW	A
		16'	2	TLC-BT-575	1.15 kW	A
4			56		70.36 kW	

Circuit Summary			
Circuit	Description	Load	Fixture Qty
A	Lacrosse	70.36 kW	56

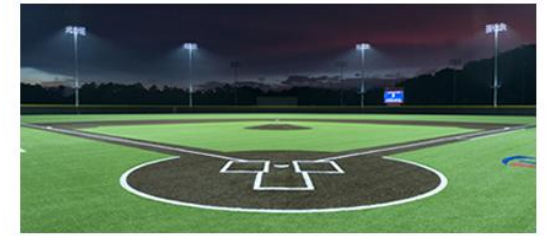
Fixture Type Summary							
Type	Source	Wattage	Lumens	L90	L80	L70	Quantity
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	40
TLC-LED-1200	LED 5700K - 75 CRI	1170W	150,000	>120,000	>120,000	>120,000	8
TLC-BT-575	LED 5700K - 75 CRI	575W	52,000	>120,000	>120,000	>120,000	8

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	
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0	
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5	

Light Level Summary

Calculation Grid Summary								
Grid Name	Calculation Metric	Illumination					Circuits	Fixture Qty
		Ave	Min	Max	Max/Min	Ave/Min		
Blanket	Horizontal	13.4	0	83	0.00		A	56
El Camino Spill	Horizontal	0	0	0.01	0.00		A	56
El Camino Spill	Max Candela (by Fixture)	232	0	882	0.00		A	56
El Camino Spill	Max Vertical Illuminance Metric	0.01	0	0.03	0.00		A	56
Lacrosse	Horizontal Illuminance	75.7	68	79	1.17	1.11	A	56

From Hometown to Professional



We Make It Happen®

Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC. ©1981, 2024 Musco Sports Lighting, LLC.

EQUIPMENT LIST FOR AREAS SHOWN

Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	-	80'	TLC-LED-1200	2	2	0
				15.5'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	10	10	0
2	F3-F4	80'	-	80'	TLC-LED-1500	10	10	0
				15.5'	TLC-BT-575	2	2	0
				80'	TLC-LED-1200	2	2	0
4	TOTALS					56	56	0

Stanford Practice Lacrosse

Stanford, CA

GRID SUMMARY	
Name:	Lacrosse
Size:	360' x 195'
Spacing:	30.0' x 30.0'
Height:	3.0' above grade

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Guaranteed Average:	75
Scan Average:	75.67
Maximum:	79
Minimum:	68
Avg / Min:	1.11
Guaranteed Max / Min:	2
Max / Min:	1.17
UG (adjacent pts):	1.10
CU:	0.65
No. of Points:	84
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	56
Total Load:	70.36 kW

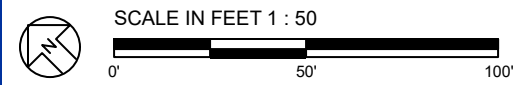
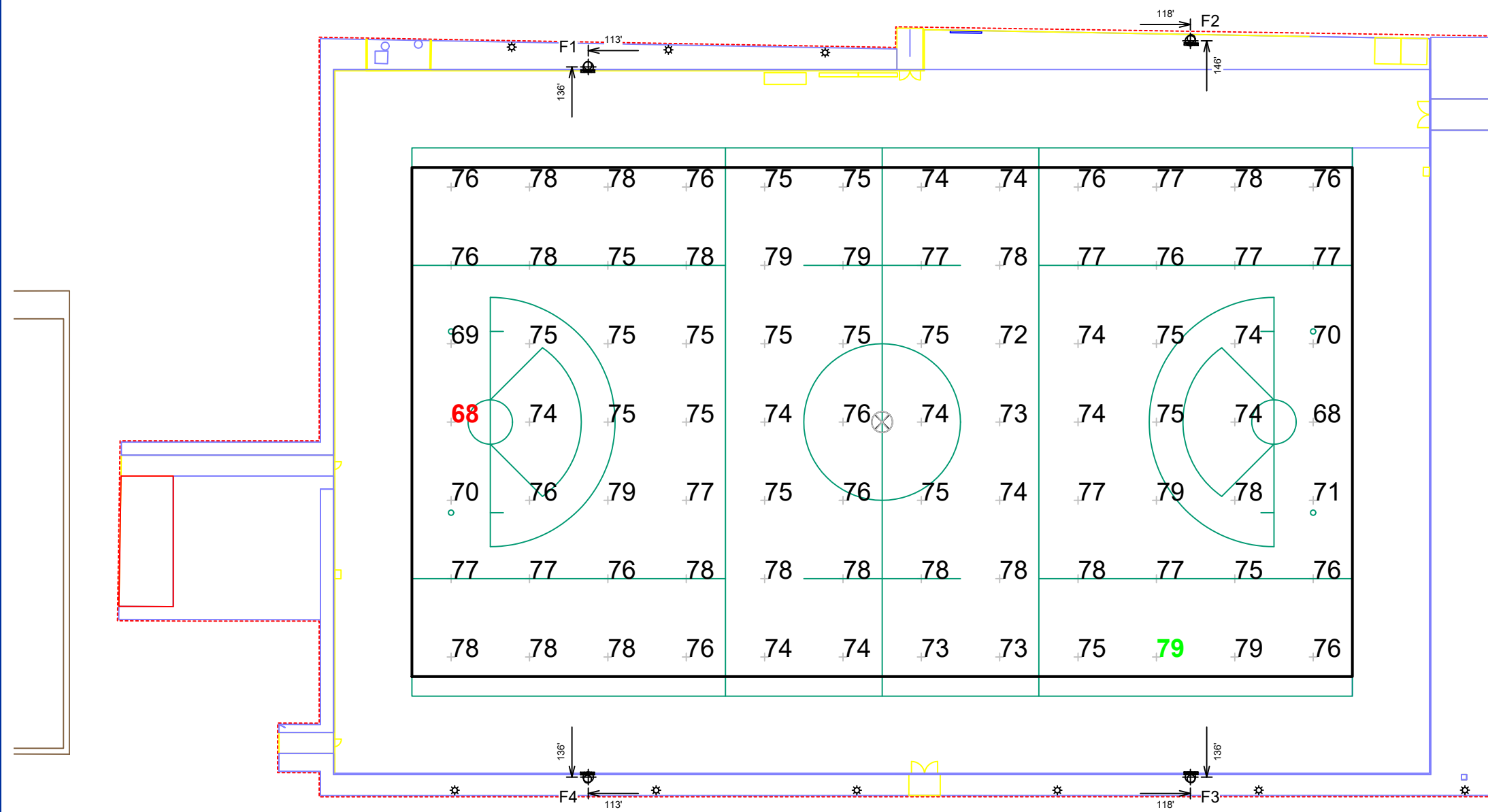
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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.

0.0 - Green color denotes the largest foot candle location
 #.# - Black color denotes the foot candles at the marker location
 0.0 - Red color denotes zero foot candles at marker location



ENGINEERED DESIGN By: Aaron Rose · File #232514C · 05-Mar-24

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



Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC. ©1981, 2024 Musco Sports Lighting, LLC.

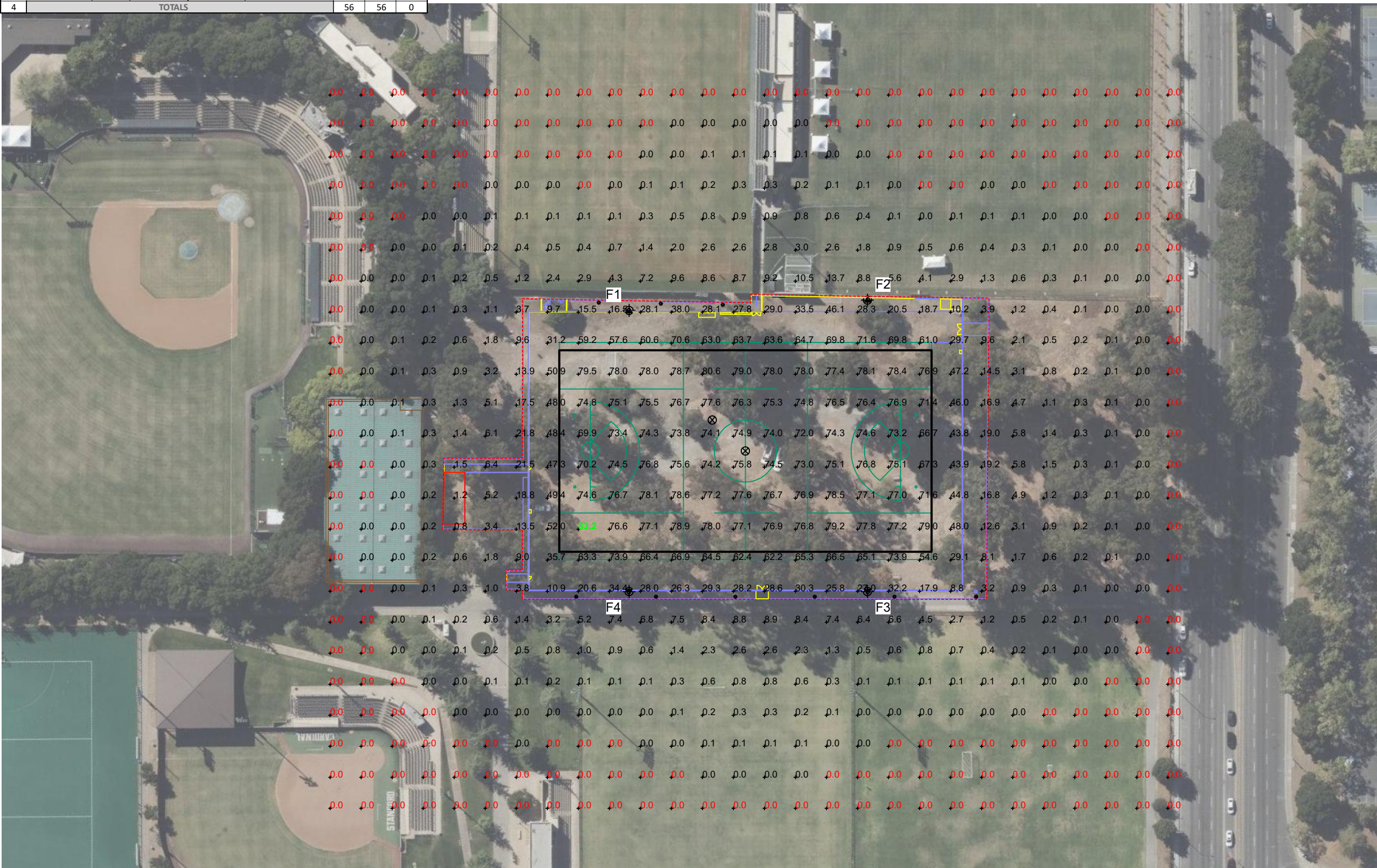
EQUIPMENT LIST FOR AREAS SHOWN									
Pole				Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS	
2	F1-F2	80'	-	80'	TLC-LED-1200	2	2	0	
				15.5'	TLC-BT-575	2	2	0	
				80'	TLC-LED-1500	10	10	0	
2	F3-F4	80'	-	80'	TLC-LED-1500	10	10	0	
				15.5'	TLC-BT-575	2	2	0	
				80'	TLC-LED-1200	2	2	0	
4	TOTALS					56	56	0	

Stanford Practice Lacrosse

Stanford, CA

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

ILLUMINATION SUMMARY	
MAINTAINED HORIZONTAL FOOTCANDLES	
Entire Grid	
Scan Average:	13.44
Maximum:	83
Minimum:	0
Avg / Min:	-
Max / Min:	-
UG (adjacent pts):	58.15
CU:	0.93
No. of Points:	672
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	56
Total Load:	70.36 kW



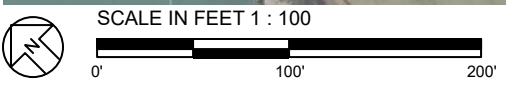
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 dirt depreciation factor.

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.

0.0 - Green color denotes the largest foot candle location
 #.# - Black color denotes the foot candles at the marker location
 0.0 - Red color denotes zero foot candles at marker location



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



We Make It Happen.

Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC. ©1981, 2024 Musco Sports Lighting, LLC.

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	-	80'	TLC-LED-1200	2	2	0
				15.5'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	10	10	0
2	F3-F4	80'	-	80'	TLC-LED-1500	10	10	0
				15.5'	TLC-BT-575	2	2	0
				80'	TLC-LED-1200	2	2	0
4	TOTALS					56	56	0

Stanford Practice Lacrosse

Stanford, CA

GRID SUMMARY	
Name:	El Camino Spill
Spacing:	30.0'
Height:	0.0' above grade

ILLUMINATION SUMMARY	
HORIZONTAL FOOTCANDLES	
Scan Average:	Entire Grid 0.0016
Maximum:	0.01
Minimum:	0.00
No. of Points:	46
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	56
Total Load:	70.36 kW

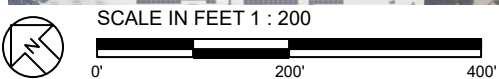
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

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.

0.0 - Green color denotes the largest foot candle location
 #.# - Black color denotes the foot candles at the marker location
 0.0 - Red color denotes zero foot candles at marker location



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



We Make It Happen.

Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC. ©1981, 2024 Musco Sports Lighting, LLC.

EQUIPMENT LIST FOR AREAS SHOWN								
Pole				Luminaires				
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	-	80'	TLC-LED-1200	2	2	0
				15.5'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	10	10	0
2	F3-F4	80'	-	80'	TLC-LED-1500	10	10	0
				15.5'	TLC-BT-575	2	2	0
				80'	TLC-LED-1200	2	2	0
4	TOTALS					56	56	0

Stanford Practice Lacrosse

Stanford, CA

GRID SUMMARY	
Name:	El Camino Spill
Spacing:	30.0'
Height:	0.0' above grade

ILLUMINATION SUMMARY	
MAX VERTICAL FOOTCANDLES	
Scan Average:	Entire Grid 0.0062
Maximum:	0.03
Minimum:	0.00
No. of Points:	46
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	56
Total Load:	70.36 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

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.

0.0 - Green color denotes the largest foot candle location
 #.# - Black color denotes the foot candles at the marker location
 0.0 - Red color denotes zero foot candles at marker location



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



We Make It Happen.

Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC. ©1981, 2024 Musco Sports Lighting, LLC.

EQUIPMENT LIST FOR AREAS SHOWN								
Pole			Luminaires					
QTY	LOCATION	SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE	THIS GRID	OTHER GRIDS
2	F1-F2	80'	-	80'	TLC-LED-1200	2	2	0
				15.5'	TLC-BT-575	2	2	0
				80'	TLC-LED-1500	10	10	0
2	F3-F4	80'	-	80'	TLC-LED-1500	10	10	0
				15.5'	TLC-BT-575	2	2	0
				80'	TLC-LED-1200	2	2	0
4	TOTALS					56	56	0

Stanford Practice Lacrosse

Stanford, CA

GRID SUMMARY	
Name:	El Camino Spill
Spacing:	30.0'
Height:	0.0' above grade

ILLUMINATION SUMMARY	
CANDELA (PER FIXTURE)	
Scan Average:	Entire Grid 231.8350
Maximum:	882.38
Minimum:	0.00
No. of Points:	46
LUMINAIRE INFORMATION	
Applied Circuits:	A
No. of Luminaires:	56
Total Load:	70.36 kW

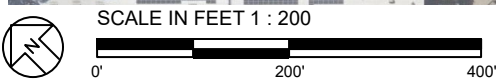
Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document.

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.

0.0 - Green color denotes the largest foot candle location
 ## - Black color denotes the foot candles at the marker location
 0.0 - Red color denotes zero foot candles at marker location



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



We Make It Happen.

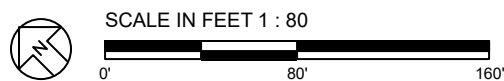
Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC. ©1981, 2024 Musco Sports Lighting, LLC.

Stanford Practice Lacrosse
Stanford, CA

EQUIPMENT LAYOUT	
INCLUDES: · Lacrosse	
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.	

EQUIPMENT LIST FOR AREAS SHOWN						
QTY	LOCATION	Pole		Luminaires		
		SIZE	GRADE ELEVATION	MOUNTING HEIGHT	LUMINAIRE TYPE	QTY / POLE
2	F1-F2	80'	-	80'	TLC-LED-1200	2
				15.5'	TLC-BT-575	2
				80'	TLC-LED-1500	10
2	F3-F4	80'	-	80'	TLC-LED-1500	10
				15.5'	TLC-BT-575	2
				80'	TLC-LED-1200	2
4	TOTALS					56

SINGLE LUMINAIRE AMPERAGE DRAW CHART							
Driver (.90 min power factor)	Line Amperage Per Luminaire (max draw)						
	208 (60)	220 (60)	240 (60)	277 (60)	347 (60)	380 (60)	480 (60)
Single Phase Voltage							
TLC-LED-1500	8.4	7.9	7.3	6.3	5.0	4.6	3.6
TLC-LED-1200	6.9	6.5	6.0	5.2	4.2	3.8	3.0
TLC-BT-575	3.4	3.2	2.9	2.5	2.0	1.8	1.5



ENGINEERED DESIGN By: Aaron Rose · File #232514C · 05-Mar-24

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



We Make It Happen.

Not to be reproduced in whole or part without the written consent of Musco Sports Lighting, LLC. ©1981, 2024 Musco Sports Lighting, LLC.

PRELIMINARY FOUNDATION AND POLE ASSEMBLY DRAWING

TABLE 1: POLE ASSEMBLY			
POLE ID	POLE HEIGHT ft (m)	# OF LUMINAIRES	ASSEMBLED POLE WEIGHT ³ lb (kg)
F1	80 (24.4)	14	4019 (1823)
F2	80 (24.4)	14	4019 (1823)
F3	80 (24.4)	15	4110 (1864)
F4	80 (24.4)	15	4110 (1864)

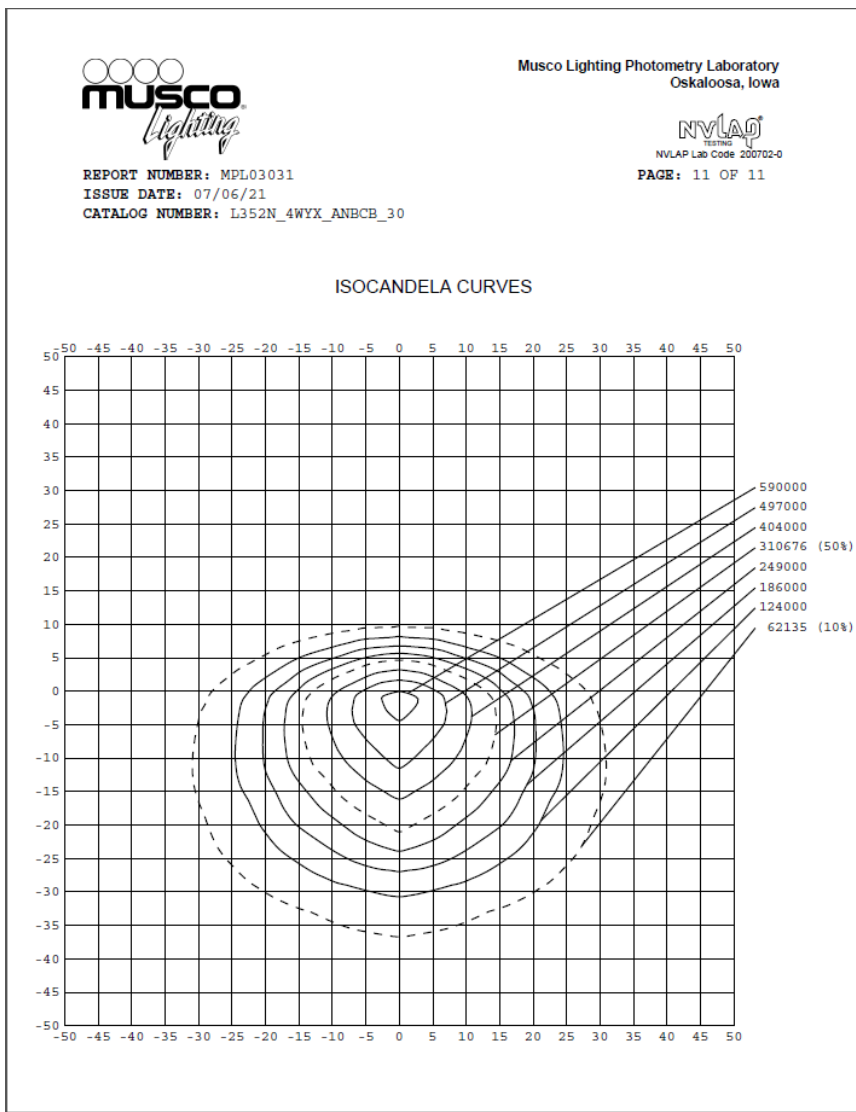
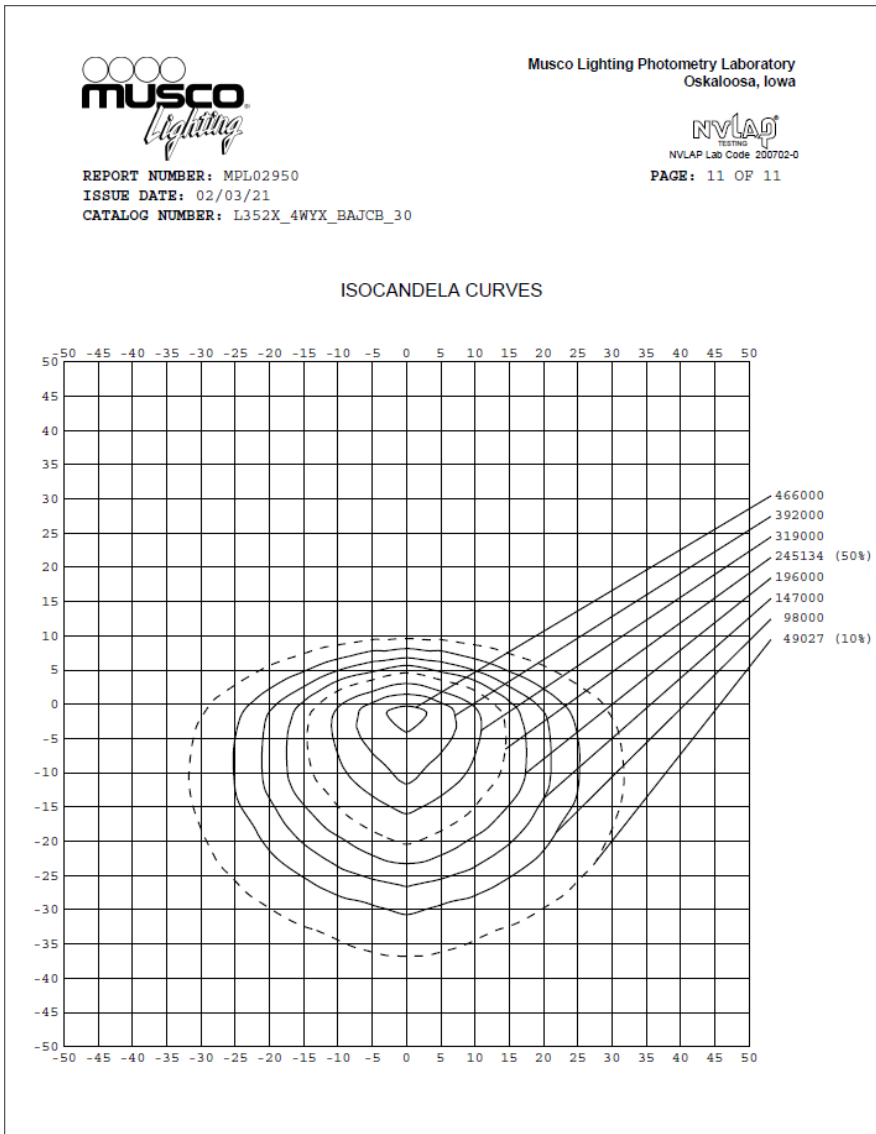
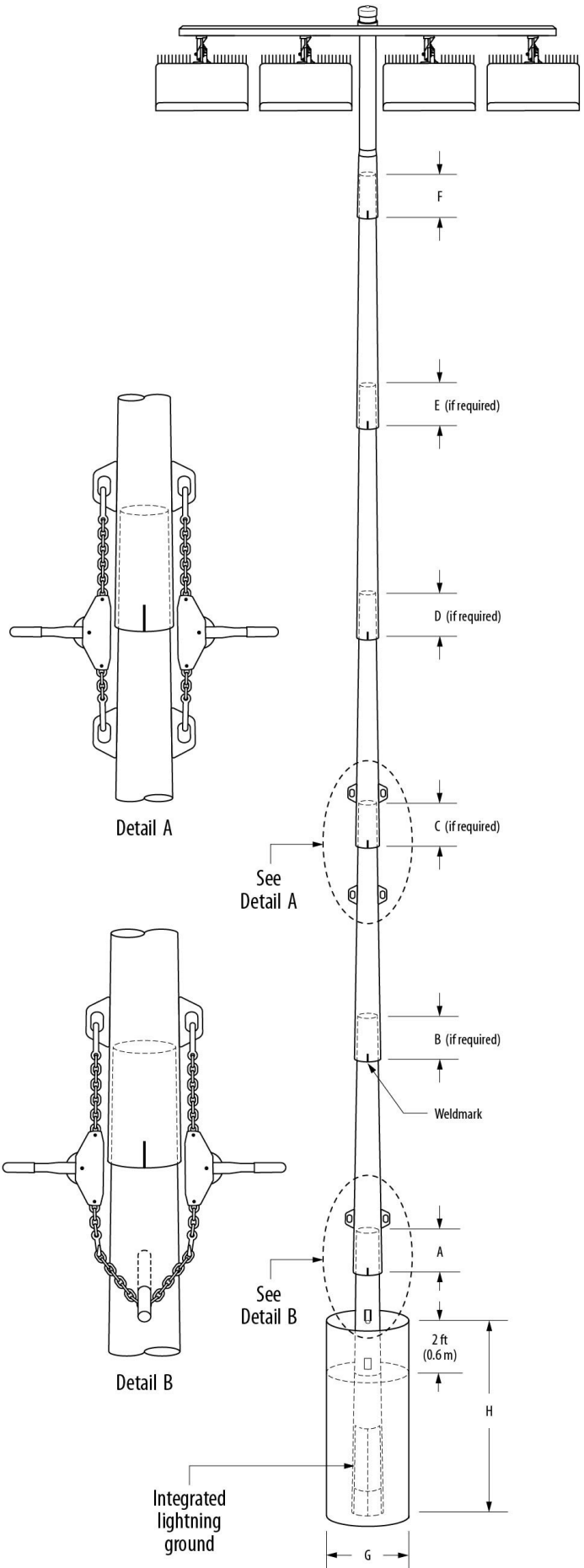
Pole Assembly Notes:

1. Steel pole should overlap concrete base and be seated tight with 1 1/2 ton come-alongs (contractor provided).
2. Align weldmarks on steel sections before assembling.
3. Assembled pole weight includes steel sections, crossarms, luminaires, and electrical components enclosures. If pole has stamped structural design then use pole weight (listed as vertical force) on stamped structural design document.
4. Section overlap must be pulled together until tight. Overlap measurement should be +/- 6 in (150 mm).
5. This document is not intended for use as an assembly instruction. See *Installation Instructions: Light-Structure System™ Lighting System* for complete assembly procedure.

TABLE 2: FOUNDATION DETAILS							
POLE ID	CONCRETE BASE WEIGHT lb (kg)	BURIAL INFORMATION ^{3,4}		CONCRETE BACKFILL ^{1,2} yd ³ (m ³)	CUT BASE	LIGHTNING GROUND ⁵	
		G in (mm)	H ft (m)			TYPE	SUPPLEMENTAL INSTRUCTION
F1	5300 (2404)	30 (762)	16 (4.9)	1.6 (1.2)	NO	INTEGRATED ⁶	N/A
F2	5300 (2404)	30 (762)	16 (4.9)	1.6 (1.2)	NO	INTEGRATED ⁶	N/A
F3	5300 (2404)	30 (762)	16 (4.9)	1.6 (1.2)	NO	INTEGRATED ⁶	N/A
F4	5300 (2404)	30 (762)	16 (4.9)	1.6 (1.2)	NO	INTEGRATED ⁶	N/A

Foundation Notes:

1. Concrete backfill is calculated to 2 ft (0.6m) below grade (no overage included). Top 2 ft (0.6m) to be class 5 soil compacted to 95% density of surrounding undisturbed soil unless otherwise specified in stamped structural design.
2. Concrete backfill required 3000 lb/in² (20 MPa) minimum.
3. Foundation design per 2022 CBC, 95 mph, exposure category C, variation STD.
4. Assumes IBC class 5 soils.
5. Standard bases include integrated lightning protection. If bases are cut, supplemental lightning protection is required. Contact Musco for materials and instruction.
6. Lightning protection is a manufacturer installed concrete encased electrode and connector. Ground connection is made when concrete base is installed and footing is poured. No additional steps required.



E-8 LIGHT POLE FOUNDATION & DETAIL

Stanford Lacrosse Practice Field - Stanford, CA, USA	
Date: 12/06/2023	Scale: Not to Scale
Representative: Bob Crookham	Page: 1 of 1
Project: 232514	PRELIMINARY

