Soccer Field Renovation and Modernization

September 5, 2018





	Cills Control of the
overview	 LLOYD Civil & Sports Engineering is a design consultant licensed in civil engineering and facilities management. Site: drainage, stormwater quality, all site civil services Sports: playing fields, tracks, courts Facilities: asset management, conditions assessments and operations
markets	International, professional, collegiate, K-12 & recreation
locations	Phoenix – San Francisco – Reno/Tahoe



Bob Milano Jr.

Trained Landscape Architect

30 years as a facilities professional

20 years as Assistant AD at UC Berkeley; directed \$500M of Capital Development

5 years at Lloyd Civil & Sports Engineering













Goals



Develop a League and NCAA compliant soccer pitch for training and competition

2

Modernize systems and infrastructure to provide year round all weather playing field

3

Provide flexibility for new field to support existing programs and future opportunities



Programming Requirements

NCAA Compliance	Provide a playing surface of 70 yards by 110 yards MINIMUM
Quality	Provide smooth uniform multi-use all weather high use field.
Event Capabilities	Provide adequate event support and to maximize field utility to College and Community.



Natural Grass

- Low capital
- Preferred by Athletes
- Compaction/Climate
- Land Intensive

Synthetic Turf

- High capital
- Low Maintenance
- All Weather
- Land Efficient

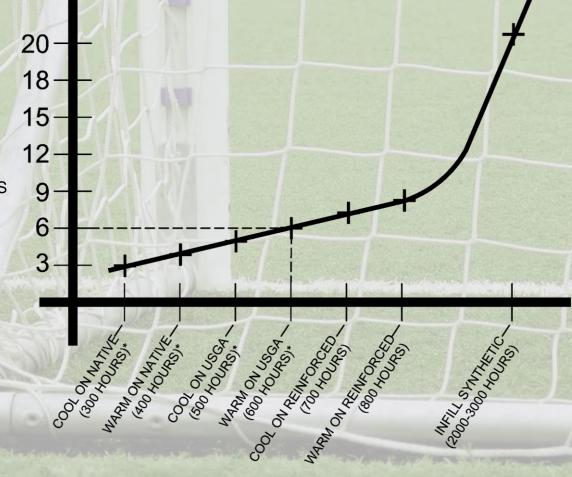




3 SEASON LIGHTED SPORTS FIELD (RECTANGULAR) TURF SYSTEM AND USE INTENSITY MODEL



- NUMBER OF PARTICIPANTS
- DURATION OF ACTIVITY
- INTENSITY FACTOR

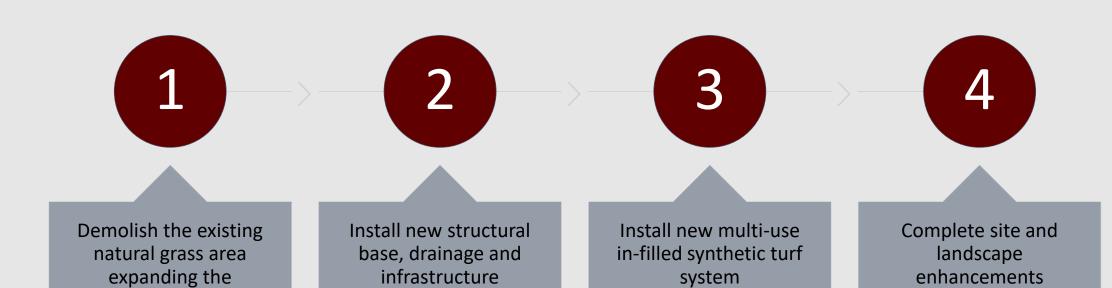


SESTIMATED 3-SEASON HOURS BY MONTGOMERY COUNTY MARYLAND FOR 2011 STUDY STADIUM FIELD LEVEL

TURF SYSTEM TYPE



Scope of Work; Overview

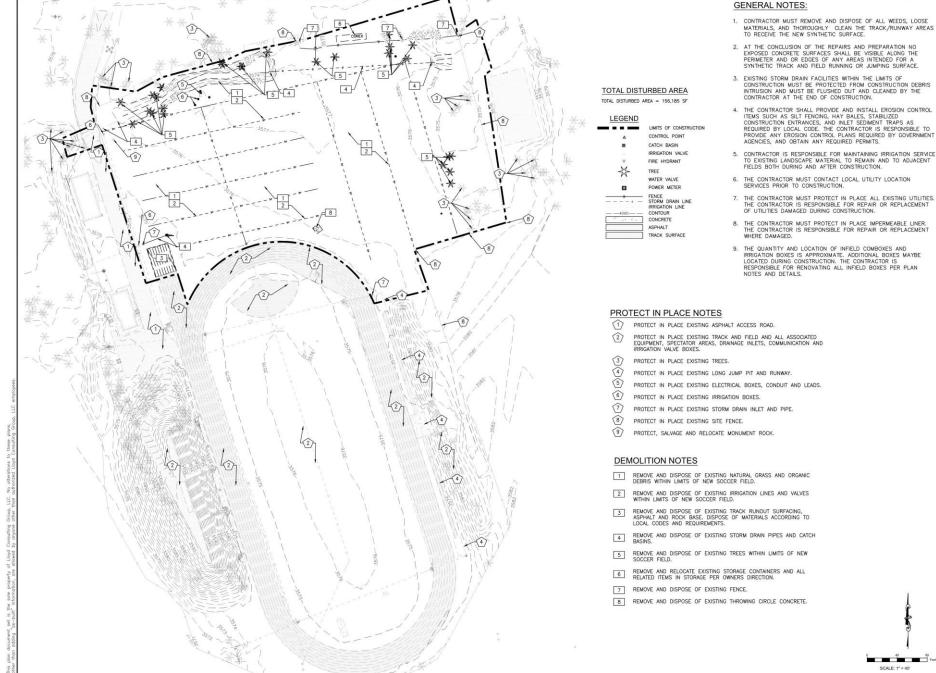




footprint significantly









7349 N. VIA PASEO DEL SUR SUITE 515-324 SCOTTSDALE, ARIZONA 85258 PH 602.635.4226 FAX 602.997.3148

COLLEGE OF THE SISKIYOUS SOCCER FIELD 800 College Avenue

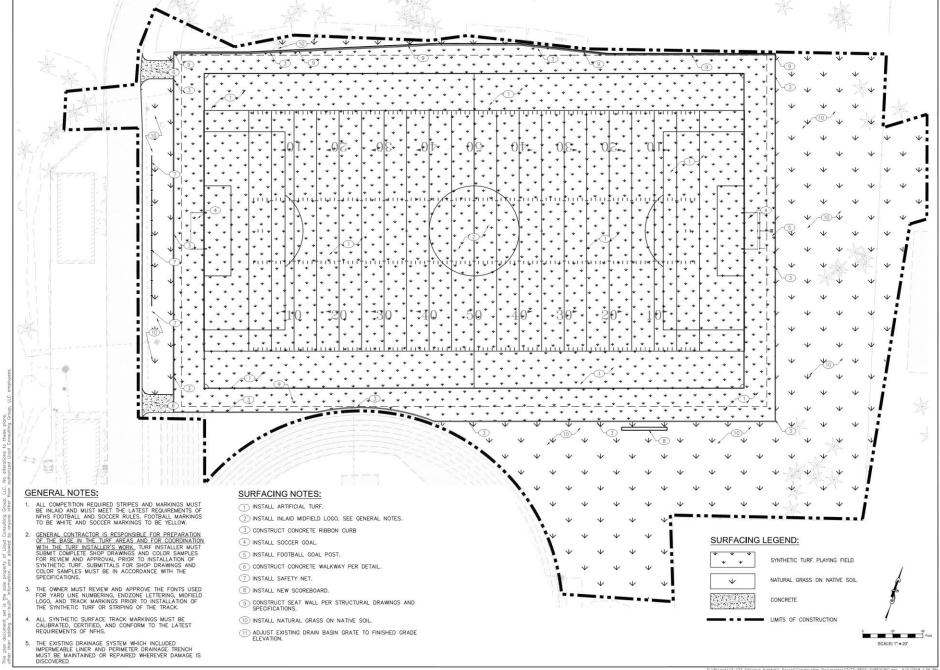
Weed, CA 1"=40" BTL

SCALE DESIGNED: 8/30/2018 DATE DRAWN-PROJ. 17-173 APPROVED:

DEMOLITION PLAN

DWG. NO. PF-02

____ SCALE: 1" = 40"



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ERELIMINARY NOTION ERELIMINARY RUCTION

COLLEGE OF THE SISKIYOUS SOCCER FIELD 800 College Avenue

800 College Avenu Weed, CA

SCALE:	1"=30'	
DESIGNED:	BTL	
DATE:	8/30/2018	_
DRAWN:	ZTP	
PROJ.	17-173	
APPROVED:		_
		_

SURFACING PLAN

DWG. NO.

PF-03

GRADING NOTES:

- ELEVATIONS SHOWN ARE FINISHED GRADE, TOP OF NATURAL GRASS, CONCRETE PAVEMENT OR TOP OF SYNTHETIC TURF INFILL.
- CONTRACTOR MUST PROVIDE SMOOTH AND FLUSH SURFACE AT ALL FIELD ENTRANCES AND MATERIAL TRANSITIONS. NO DIPS, LIPS OR GAPS ARE ACCEPTED.
- SUBGRADE MUST BE PREPARED AND COMPACTED IN ACCORDANCE WITH ALL RECOMMENDATIONS AND REQUIREMENTS PER GEOTECHNICAL REPORT.
- FIELD CONTRACTOR MUST ACCEPT SUBGRADE CONDITIONS PRIOR TO FIELD CONSTRUCTION.
- ALL ACCESSIBLE PATHWAYS MUST BE INSTALLED IN ACCORDANCE WITH ADA REQUIREMENTS.

EARTHWORK QUANTITIES:

CUT TO	SUBGRADE =	2,180	CY
FILL =		485	CY
EXPORT	TO BALANCE	= 1,695	CY

GRADING LEGEND:

0	LLOLIND.
=	FINISHED GRADE
=	EXISTING GRADE
=	TOP OF CURB
=	BOTTOM OF CURB
=	GRADE BREAK
-	SLOPE ARROW
_	LIMITS OF CONSTRUCTION
	= = = = =

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COLLEGE OF THE SISKIYOUS SOCCER FIELD

800 College Avenue Weed, CA

SCALE:	1"=20"
DESIGNED:	BTL
DATE:	8/30/2018
DRAWN:	TML
PROJ.	17-173
APPROVED:	

GRADING PLAN

DWG. NO. PF-04

SCALE: 1" = 20"

Synthetic Turf System Details



Student Safety

Shock Attenuation

Materials and Components

Heat and Abrasion



G-MAX RATING SCALE

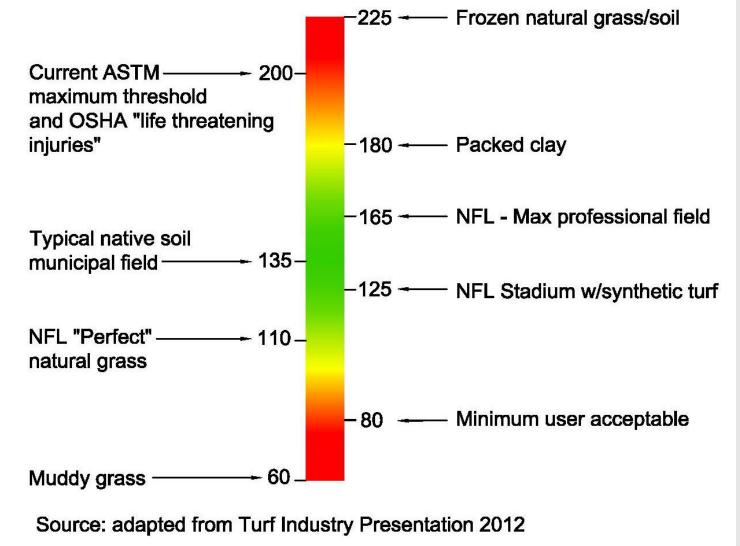






Image source: www.Palombotesting.com



Crumb Rubber and Alternate In-fills



Recycled Crumb Rubber

Virgin Plastics and Polymers

Composites & Blends

Organic Materials



Crumb Rubber Research

- 2017 Washington State Department of Health Report:
- https://www.doh.wa.gov/Portals/1/Documents/Pubs/210-091.pdf
- 2017 European Chemicals Agency Report:
- https://echa.europa.eu/documents/10162/13563/annex-xv report rubber granules en.pdf/dbcb4ee6-1c65-af35-7a18-f6ac1ac29fe4
- 2016 EPA Federal Research Action Plan on Crumb Rubber
- https://www.epa.gov/sites/production/files/2016-12/documents/federal research action plan on recycled tire crumb used on playing fields and playgrounds status report.pdf
- 2016 State of California; CalReycle Study and Reports
- https://oehha.ca.gov/risk-assessment/fact-sheet-environmental-health-study-synthetic-turf
- 2018 State of CA; OEHHA Synthetic Turf Advisory Panel; Ongoing Study
- https://oehha.ca.gov/risk-assessment/synthetic-turf-studies





FIELD COLOR LEGEND







College of the Siskiyous, Synthetic Turf Soccer Schedule

LLOYD CIVIL & SPORTS ENGINEERING

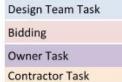
Lloyd Consulting Group 7/18/2018

Project Start: Sun, 7/1/2018

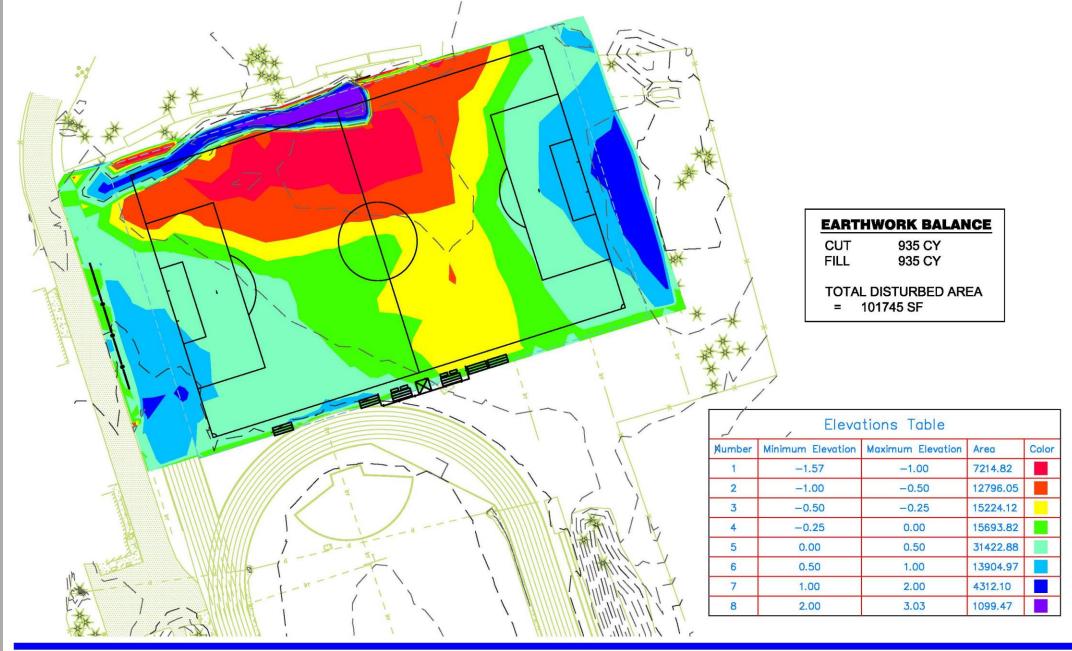
Display Week:

ASK	Weeks
Design Proposal and New Contract	2
Final Survey and Geotech	2
Schematic Design	4
Community Workshop and Client Meeting	1
Construction Documents to 75%	8
Final Client Review and Cost Verification	1
Bid Preparation and Final CD's	4
DSA Review	8
Advertise and Bid	4
Bid Certify and Approval	5
Award and NTP	2
Pre-Construction	4
Float	2
Construction	15
Beneficial Occupancy	1
Float/Weather	2
Punch List and Closeout	4

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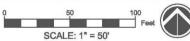






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FIELD COLOR LEGEND

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