

Z2019-003 - SUP FOR ROCKWALL HIGH SCHOOL  
 ZONING - LOCATION MAP = [pin icon]



# City of Rockwall

Planning & Zoning Department  
 385 S. Goliad Street  
 Rockwall, Texas 75032  
 (P): (972) 771-7745  
 (W): www.rockwall.com

The City of Rockwall GIS maps are continually under development and therefore subject to change without notice. While we endeavor to provide timely and accurate information, we make no guarantees. The City of Rockwall makes no warranty, express or implied, including warranties of merchantability and fitness for a particular purpose. Use of the information is the sole responsibility of the user.



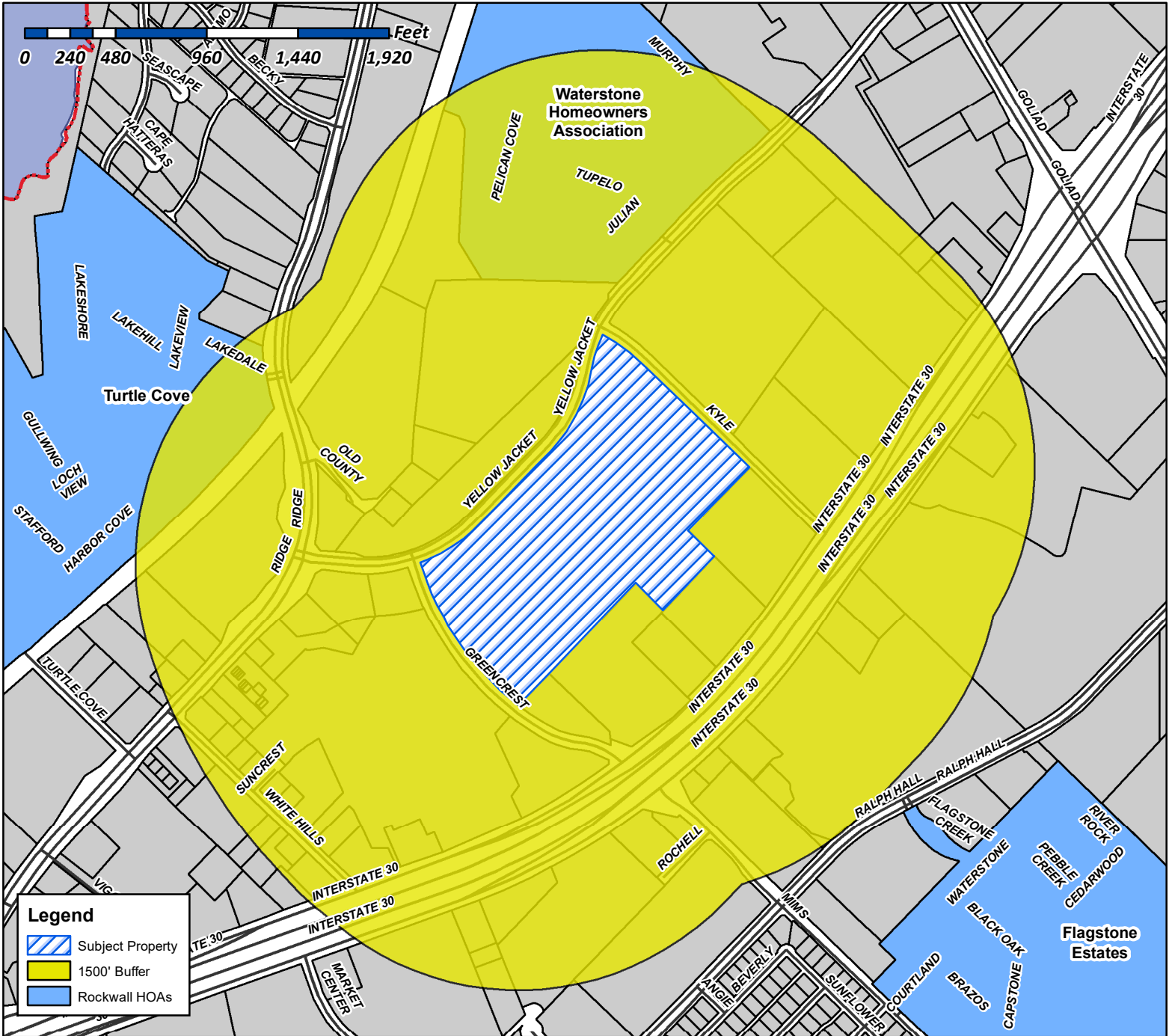




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Planning & Zoning Department  
385 S. Goliad Street  
Rockwall, Texas 75087  
(P): (972) 771-7745  
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**Case Number:** Z2019-003  
**Case Name:** SUP for Rockwall High School  
**Case Type:** Zoning  
**Zoning:** Commercial (C) District  
**Case Address:** 901 W. Yellowjacket Lane

**Date Created:** 2/19/2019  
**For Questions on this Case Call** (972) 771-7745

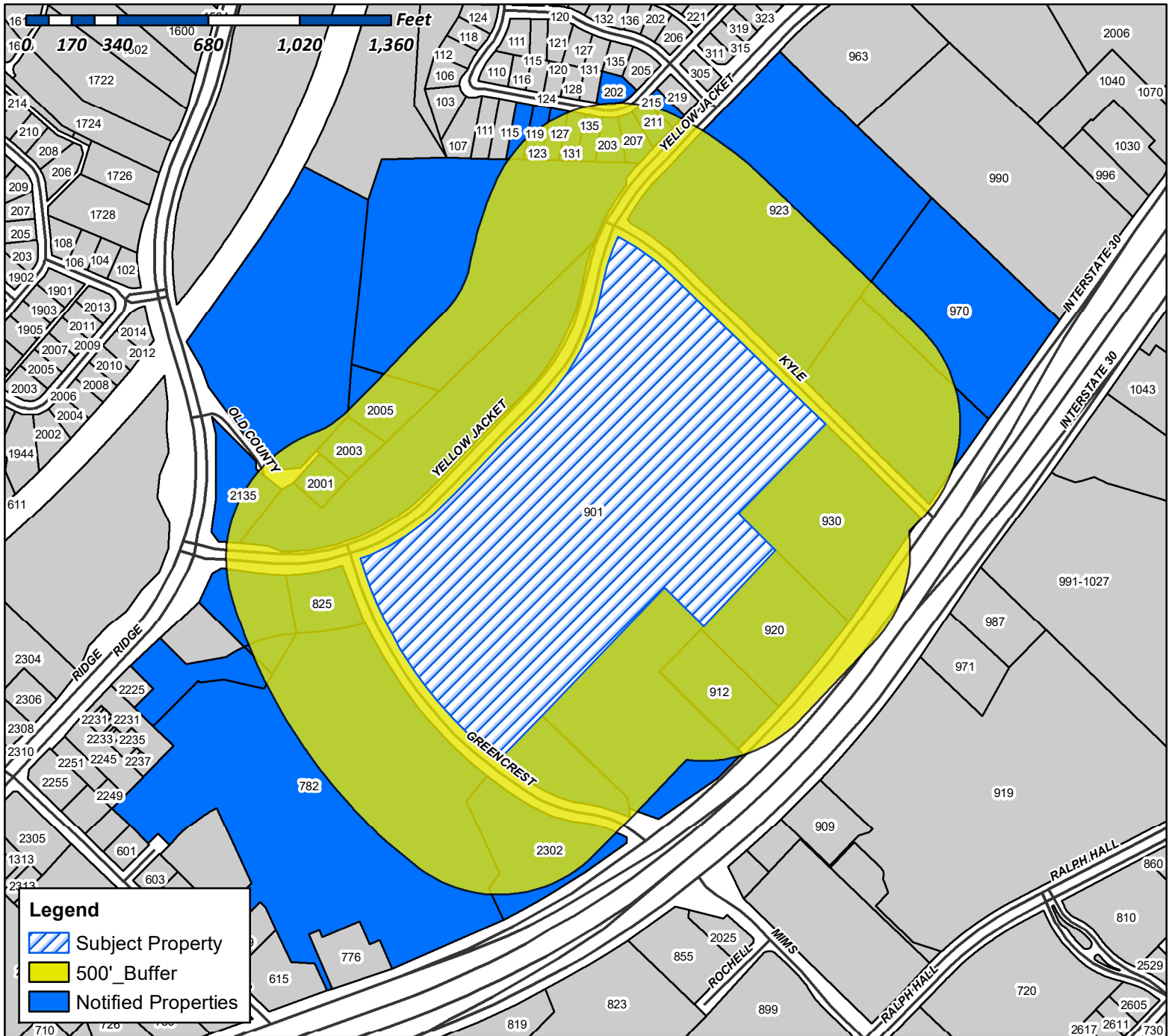




# City of Rockwall

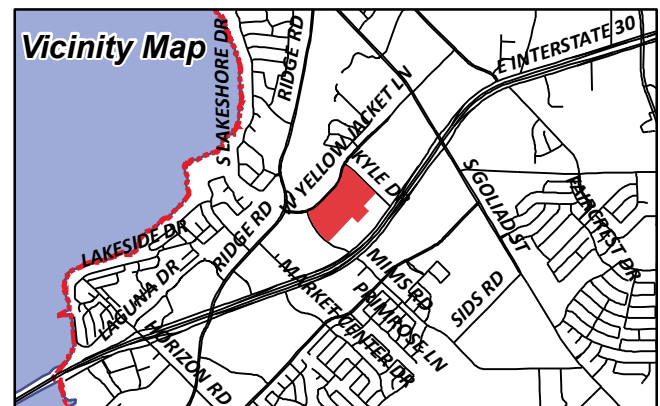
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**Case Name:** SUP for Rockwall High School  
**Case Type:** Zoning  
**Zoning:** Commercial (C) District  
**Case Address:** 901 W. Yellowjacket Lane

**Date Created:** 2/15/2019  
**For Questions on this Case Call (972) 771-7745**



MIKULSKI ANTONY AND MICHELLE  
119 JULIAN DR  
ROCKWALL, TX 75087

WOODWARD LAURA  
123 JULIAN DR  
ROCKWALL, TX 75087

RYAN BRIAN  
127 JULIAN DR  
ROCKWALL, TX 75087

CURRENT RESIDENT  
131 JULIAN DR  
ROCKWALL, TX 75032

GIPSON CAMERON  
135 JULIAN DRIVE  
ROCKWALL, TX 75087

FRANK RUSSELL  
15 PRINGLE LANE  
ROCKWALL, TX 75087

JLIU ASSET MANAGEMENT LTD  
1711 E BELTLINE RD  
COPPELL, TX 75019

CURRENT RESIDENT  
2001 RIDGE RD  
ROCKWALL, TX 75032

CURRENT RESIDENT  
2003 RIDGE RD  
ROCKWALL, TX 75032

FAHERTY FRANK  
2005 RIDGE RD  
ROCKWALL, TX 75087

SHIPP DONALD W & MAUREEN  
202 JULIAN DR  
ROCKWALL, TX 75087

ANDREWS GRACE L  
203 JULIAN DR  
ROCKWALL, TX 75087

SINGH RITU W AND  
207 JULIAN DRIVE  
ROCKWALL, TX 75087

PROCK CHARLES  
209 RUSSELL DR  
ROCKWALL, TX 75032

WHITTAKER SANDRA  
211 JULIAN DR  
ROCKWALL, TX 75087

CURRENT RESIDENT  
2135 RIDGE RD  
ROCKWALL, TX 75032

HARPER EMILY ERIN  
215 JULIAN DR  
ROCKWALL, TX 75087

CURRENT RESIDENT  
2302 GREENCREST BLVD  
ROCKWALL, TX 75032

MOUNTAINPRIZE INC  
3225 CUMBERLAND BLVD SUITE 100  
ATLANTA, GA 30339

ROCKWALL-PINE PROPERTIES LLC  
400 PERIMETER CENTER TERRACE 0  
ATLANTA, GA 30346

IN YUNG H &  
512 SUNSTONE DR  
IRVING, TX 75060

SYVRUD JAMES P & MARY JEAN  
519 E INTERSTATE 30  
ROCKWALL, TX 75087

IX MC 923 YELLOW JACKET LANE LP  
591 W PUTNAM AVE  
GREENWICH, CT 06830

GAMEZ SUSAN AND  
602 LAURENCE  
HEATH, TX 75032

ROADHOUSE ENTERPRISES INC  
6040 DUTCHMANS LANE  
LOUISVILLE, KY 40205

CURRENT RESIDENT  
782 I30  
ROCKWALL, TX 75032

ROCKWALL DIRT CO LTD  
800 GESSNER RD 0  
HOUSTON, TX 77024

ROCKWALL I S D  
801 E WASHINGTON ST  
ROCKWALL, TX 75087

CURRENT RESIDENT  
825 YELLOW JACKET LN  
ROCKWALL, TX 75032

CURRENT RESIDENT  
901 YELLOWJACKET RD  
ROCKWALL, TX 75032



CURRENT RESIDENT  
912 E I30  
ROCKWALL, TX 75032

CURRENT RESIDENT  
920 I-30  
ROCKWALL, TX 75032

CURRENT RESIDENT  
923 YELLOW JACKET LN  
ROCKWALL, TX 75032

TARBELL AUTOMOTIVE INC  
930 E I-30  
ROCKWALL, TX 75087

CURRENT RESIDENT  
970 E I30  
ROCKWALL, TX 75032

AMERICAN RESIDENTIAL LEASING COMPANY LLC  
ATTN: PROPERTY TAX DEPARTMENT 0  
AGOURA HILLS, CA 91301

ROCKWALL ASC REAL ESTATE LLC  
PO BOX 1208  
ROCKWALL, TX 75087

WAL-MART REAL ESTATE  
PO BOX 8050  
BENTONVILLE, AR 72712

ROCKWALL RENTAL PROPERTIES LP  
PO BOX B  
TERRELL, TX 75160



February 13, 2019

David Gonzales, AICP  
City of Rockwall Texas  
385 S. Goliad Street

Re: Rockwall High School Multipurpose Synthetic Turf Field – Field Netting & Lights

Dear Mr. Gonzales:

Rockwall ISD desires to convert their existing natural grass multipurpose field at Rockwall High School (field that lies immediately North of Rooms-To-Go) into a synthetic turf field. As this field is surrounded by commercial properties on three sides, in order to protect vehicles and/or patrons at these businesses, the school desires to construct a 40-foot tall fence/netting combination (10-foot black coated vinyl chain link fence topped with 30-foot black netting) around the perimeter of the field. This will also enable the fields to be more functional for their intended purpose (project is part of RISD's bond program to provide a practice facility for the softball and baseball teams (although the field will be used for football, soccer, discus and lacrosse practice as well) and it will prevent balls from leaving the field area.

In addition to the netting system, the District desires to install lights atop each of the netting poles that align the North and South sides of the field. As the field will be used by many of the school's sports teams for practice as well intermural teams, PE and other uses, it is desired that the field be made useable during night hours (limited of course by city ordinance).

In adding the lights, the District is seeking variance to the ordinance limiting light spillage to 0.2 lumens or less beyond the line 1-foot outside of the District's property lines. The design of the proposed lights (for which we have included a photometric plan) is to provide the minimum level of light needed for the practice of school sports (design is not to the level typical for stadiums and other competition facilities). As the surrounding properties are commercial entities that also light their grounds, the District feels that the proposed lighting design will not adversely affect the neighboring properties.

I have included cut sheet information for the netting system and the lights. Please let me know if you need anything further or have any questions.

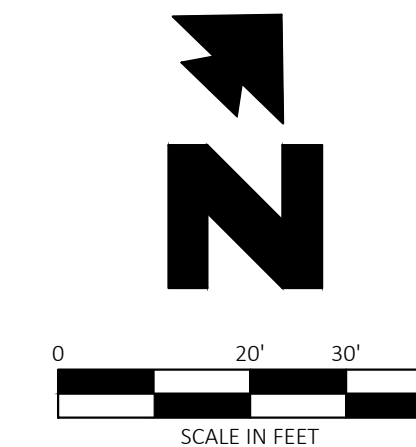
Sincerely,

SET Engineer, Inc.

A handwritten signature in blue ink that reads "Jeff Bresee". The signature is written in a cursive, flowing style.

Jeff Bresee, P.E.

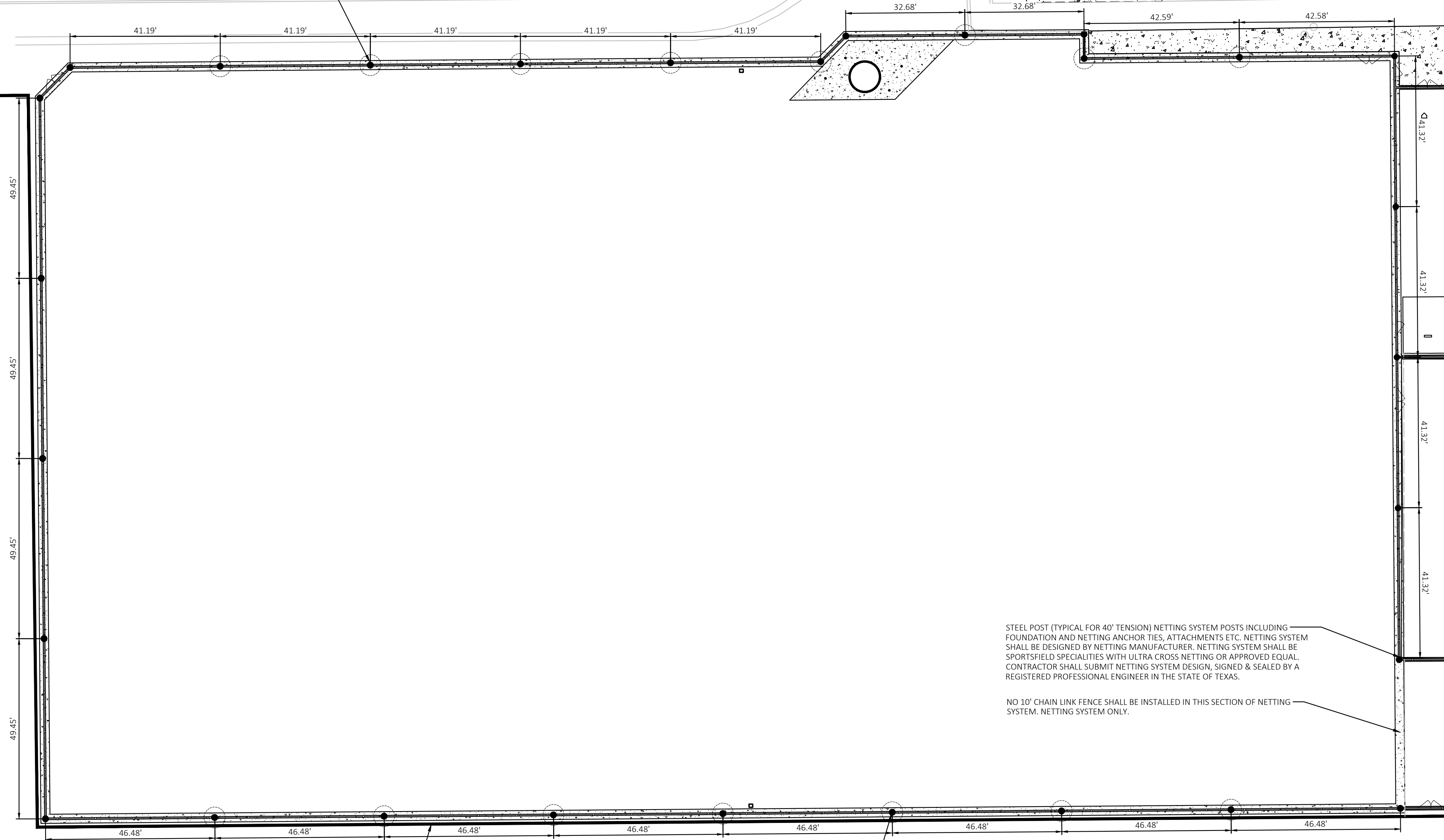




### LEGEND

EXISTING			
	EAST OR ELECTRIC		OVERHEAD TELEPHONE
	NORTH		OVERHEAD TV
	OVERHEAD		SANITARY SEWER
	SOUTH OR SEWER		UNDERGROUND ELECTRIC
	TELEPHONE		UNDERGROUND ELECTRIC AND TELEPHONE
	UNDERGROUND		UNDERGROUND TELEPHONE
	WEST OR WATER		UNDERGROUND TV
	PROPERTY LINE		WATER
	RIGHT OF WAY LINE		GAS
	STORM DRAIN		OVERHEAD ELECTRIC
	X\"G		OVERHEAD ELECTRIC AND TELEPHONE
	OHE		
	OHE&T		
			OVERHEAD TELEPHONE
			OVERHEAD TV
			SANITARY SEWER
			UNDERGROUND ELECTRIC
			UNDERGROUND ELECTRIC AND TELEPHONE
			UNDERGROUND TELEPHONE
			UNDERGROUND TV
			WATER
			TREE INFO: .5 = DIAMETER OF TRUNK IN FEET 10 = HEIGHT OF TREE IN FEET 11 = CANOPY DIAMETER IN FEET 50.5 = ELEVATION AT BASE OF TREE

POLES ON SOUTH SIDE SHALL HAVE FIELD LIGHTS ATTACHED AT TOP OF POLE



STEEL POST (TYPICAL FOR 40' TENSION) NETTING SYSTEM POSTS INCLUDING FOUNDATION AND NETTING ANCHOR TIES, ATTACHMENTS ETC. NETTING SYSTEM SHALL BE DESIGNED BY NETTING MANUFACTURER. NETTING SYSTEM SHALL BE SPORTSFIELD SPECIALTIES WITH ULTRA CROSS NETTING OR APPROVED EQUAL. CONTRACTOR SHALL SUBMIT NETTING SYSTEM DESIGN, SIGNED & SEALED BY A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS.

NO 10' CHAIN LINK FENCE SHALL BE INSTALLED IN THIS SECTION OF NETTING SYSTEM. NETTING SYSTEM ONLY.

POLES ON SOUTH SIDE SHALL HAVE FIELD LIGHTS ATTACHED AT TOP OF POLE

NETTING POLE (TYPICAL)

JOB # 31023 DRAWING: 31023-CP.dwg LAST SAVED BY: SALAM LOCATION: P:\310203\31023.0\Drawings\Design\Rev-1\31023-CP.dwg

F-7524

SET Engineers, Inc.  
Experts in Outdoor Sports Design & Construction Management  
Licensed Civil Engineers • Planners • Designers  
817-507-8303 Phone | 682-518-9825 FAX

31023	2/14/19	JIB	TKM	SAW	SAW
CEI PROJECT NO.	INITIAL DATE	DPOR	PM	DES	DRW

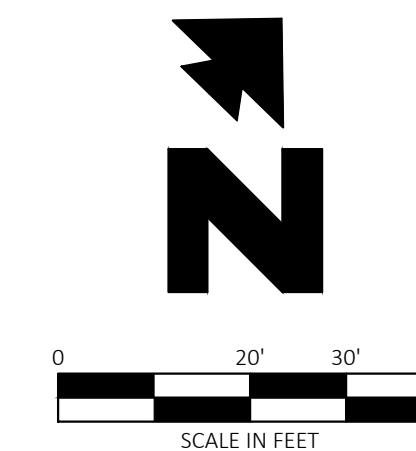
**CEI** Engineering Associates, Inc.  
ENGINEERS • PLANNERS • SURVEYORS  
LANDSCAPE ARCHITECTS • ENVIRONMENTAL SCIENTISTS

3108 S.W. REGENCY PARKWAY, SUITE 2 (479)273-9472  
Bentonville, AR 72712 FAX (479)273-0844

**ROCKWALL HIGH SCHOOL**  
901 W YELLOWJACKET LANE  
ROCKWALL, TEXAS

40- FOOT NETTING POST LOCATIONS	REV DATE 2/14/19 REV-0	SHEET NO. 2 OF 3
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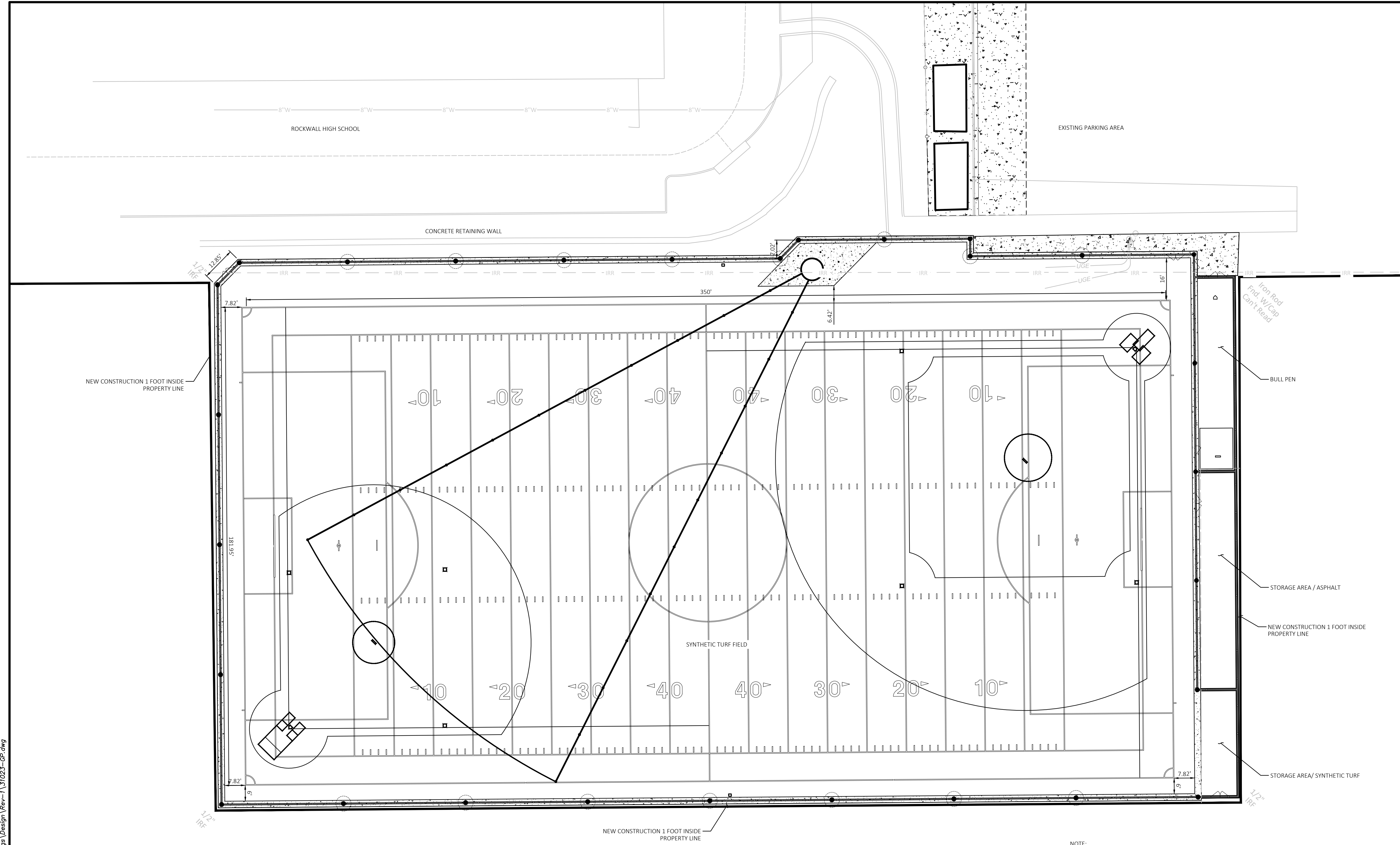


### LEGEND

EXISTING			
—E—	EAST OR ELECTRIC	—OHT—	OVERHEAD TELEPHONE
—N—	NORTH	—OHTV—	OVERHEAD TV
—OS—	SOUTH OR SEWER	—X"SS—	SANITARY SEWER
—T—	TELEPHONE	—UGE—	UNDERGROUND ELECTRIC
—UB—	UNDERGROUND	—UGE&T—	UNDERGROUND ELECTRIC AND TELEPHONE
—W—	WEST OR WATER	—UGT—	UNDERGROUND TELEPHONE
---	PROPERTY LINE	—UGTV—	UNDERGROUND TV
---	RIGHT OF WAY LINE	—X"W—	WATER
---	STORM DRAIN	—X"G—	GAS
---	X"G	—OHE—	OVERHEAD ELECTRIC
---	OHE	—OHE&T—	OVERHEAD ELECTRIC AND TELEPHONE
---	OHE&T		

FIELD EQUIPMENTS TO BE PROVIDED BY CONTRACTOR		
•	SYNTHETIC TURF BASE, SPORTS FIELD SPECIALTIES TURF BASE OR EQUAL 6 BASES TOTAL.	
•	SYNTHETIC TURF HOME PLATE, SPORTS FIELD SPECIALTIES TURF BASE OR EQUAL 2 PLATES TOTAL.	
•	SYNTHETIC TURF PITCHERS PLATE, SPORTS FIELD SPECIALTIES TURF BASE OR EQUAL 2 PLATES TOTAL.	
•	PORTABLE FOOTBALL GOAL POST, AAE SPORTS, ROLLAWAY H GOAL POST (HS), OR EQUAL, TWO GOAL POSTS TOTAL.	
•	PORTABLE SOCCER GOAL POST KWIK GOAL EVO II, SOCCER GOAL WITH WHEELS OR EQUAL 2 GOALS TOTAL.	



JOB # 31023 DRAWING: 31023-GR.dwg LAST SAVED BY: SALAM LOCATION: P:\310203\31023\Drawings\Design\Rev-1\31023-GR.dwg

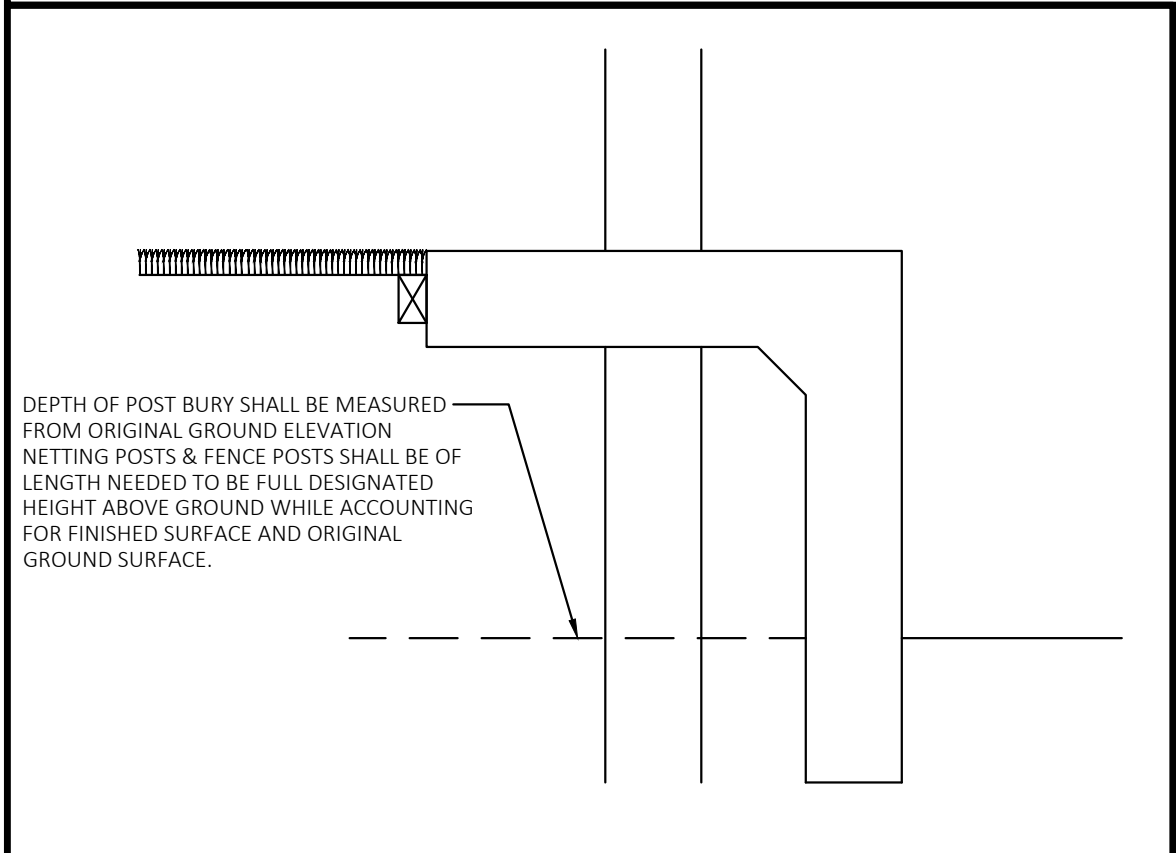
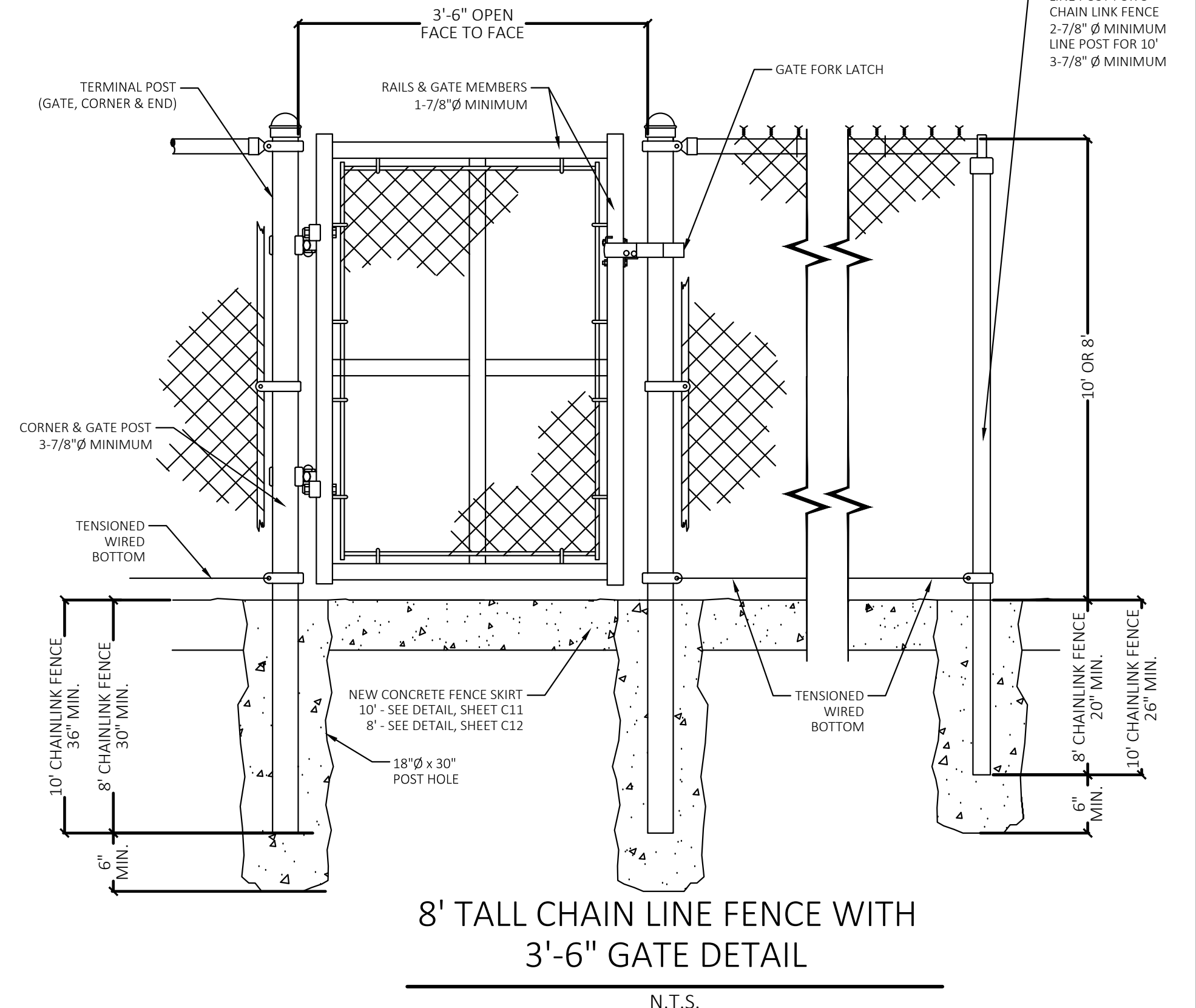
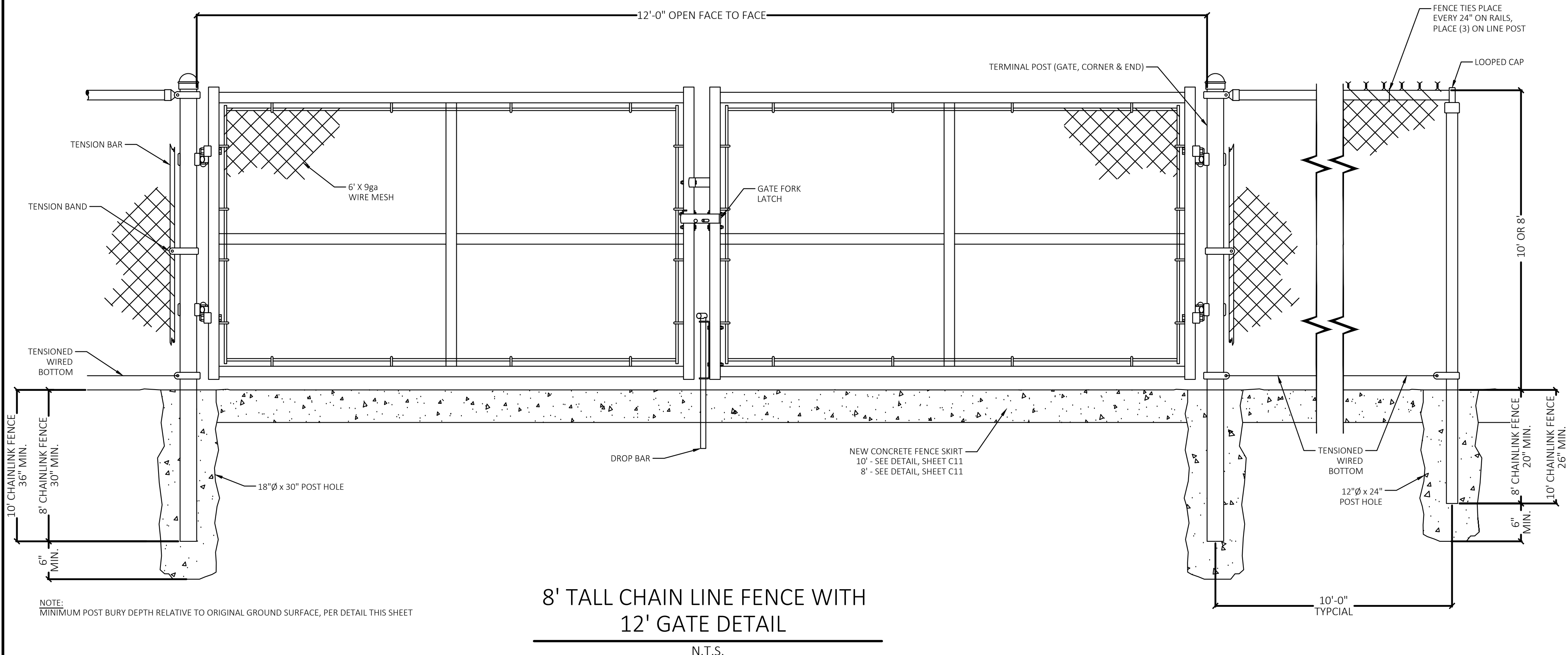
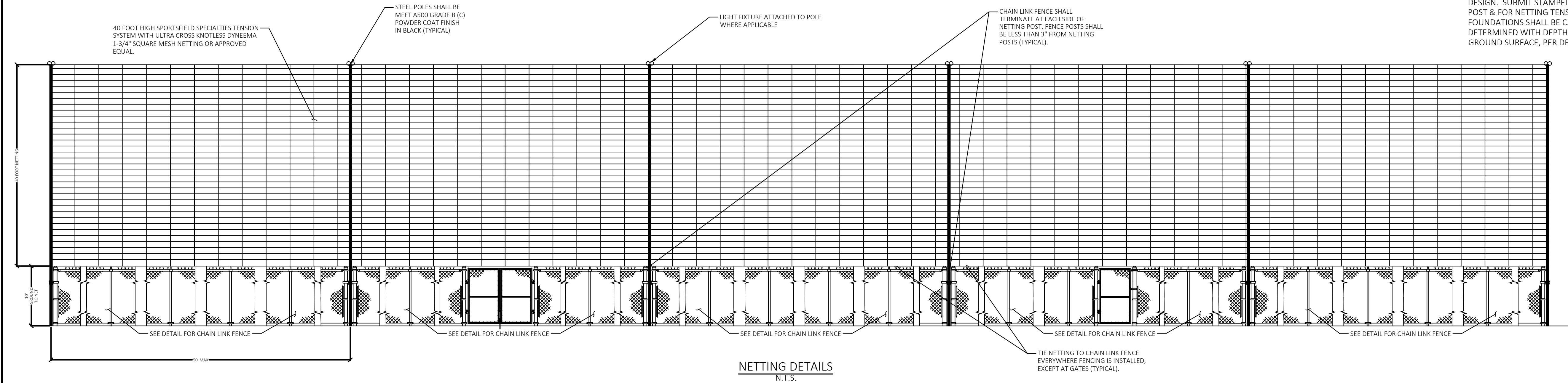
NOTE:  
TOTAL DEVELOPED  
AREA= 1.870 ACRES

F-7524

<b>SET Engineers, Inc.</b> <small>Experts in Outdoor Sports Design &amp; Construction Management          Licensed Civil Engineers • Planners • Designers          817-507-8303 Phone   682-518-9825 FAX</small>					
31023	2/14/19	JIB	TKM	SAW	SAW
CEI PROJECT NO.	INITIAL DATE	DPOR	PM	DES	DRW
<b>Engineering Associates, Inc.</b> <small>ENGINEERS • PLANNERS • SURVEYORS          LANDSCAPE ARCHITECTS • ENVIRONMENTAL SCIENTISTS</small>					
<small>3108 S.W. REGENCY PARKWAY, SUITE 2          Bentonville, AR 72712</small>			<small>(479)273-9472          FAX (479)273-0844</small>		
<b>ROCKWALL HIGH SCHOOL</b> <small>901 W YELLOWJACKET LANE          ROCKWALL, TEXAS</small>					
<b>SITE PLAN</b>				<small>REV DATE 2/14/19 REV-0</small>	<small>SHEET NO. 1 OF 3</small>



NOTE:  
TENSION NETTING SYSTEM SHALL INCLUDE MANUFACTURER'S ENGINEERING DESIGN. SUBMIT STAMPED ENGINEERING DETAIL DRAWINGS FOR ALL TENSION POST & FOR NETTING TENSION CABLES & TIE DOWNS. DEPTH OF POLE FOUNDATIONS SHALL BE CALCULATED AND OVERALL LENGTH OF POLES SHALL BE DETERMINED WITH DEPTH OF BURIAL BEING FROM ORIGINAL/PRECONSTRUCTION GROUND SURFACE, PER DETAIL THIS SHEET



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31023	12/18/18	JIB	TKM	SAW	SAW
CEI PROJECT NO.	INITIAL DATE	DPOR	PM	DES	DRW

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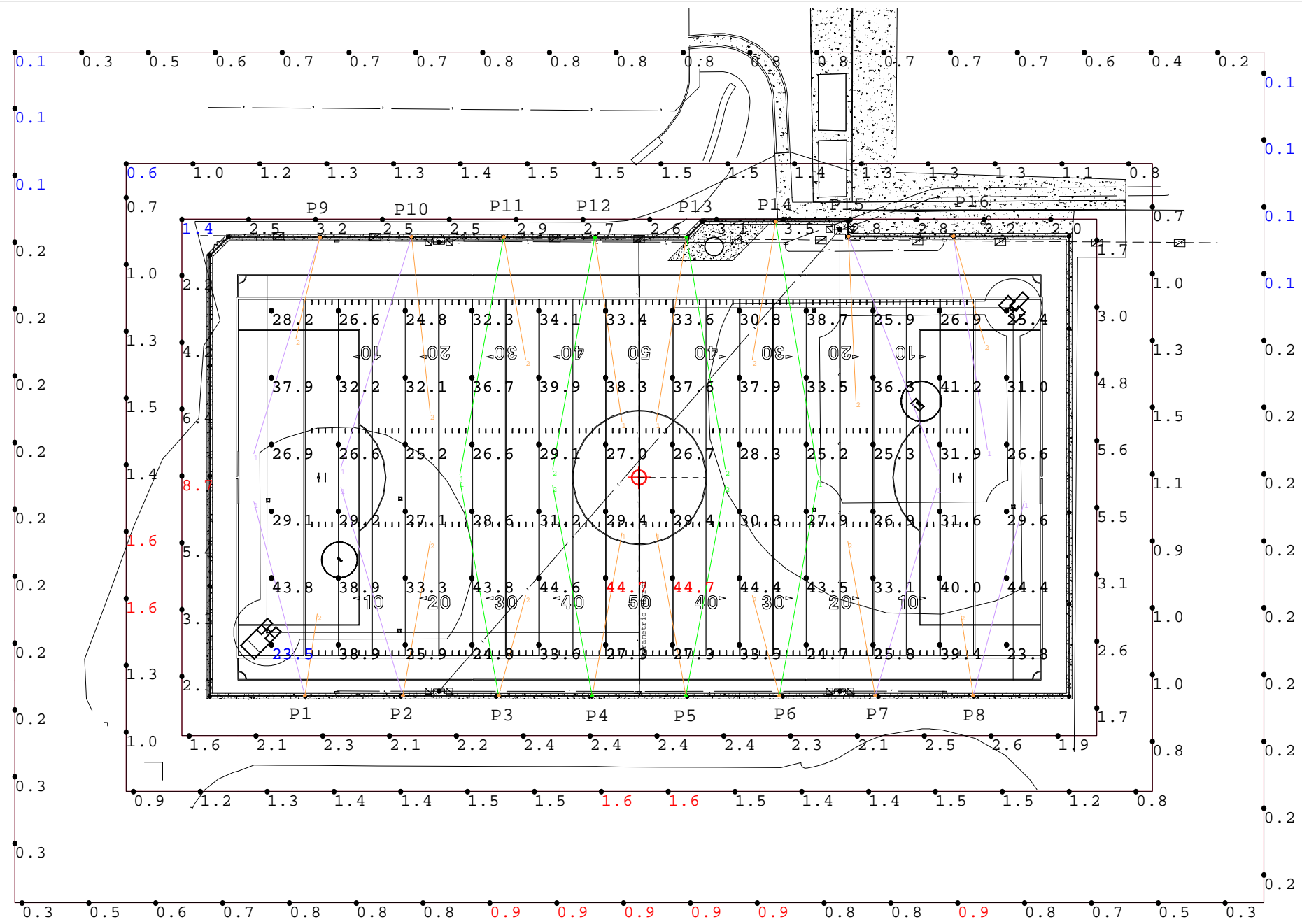
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Bentonville, AR 72712 FAX (479)273-0844

**ROCKWALL HIGH SCHOOL**  
901 W YELLOWJACKET LANE  
ROCKWALL, TEXAS

REV DATE	SHEET NO.
2/14/19	3 OF 3
REV-D	

**DETAILS SHEET 3**

JOB # 31023 DRAWING: 31023-CS.dwg LAST: SALAM LOCATION: P:\31023\31023.01\Drawings\Design\Rev=0\31023-CS.dwg



Pole Summary		
Scene: GAME		
Poles	# Lums	MH
P01	2	40
P02	2	40
P03	2	40
P04	2	40
P05	2	40
P06	2	40
P07	2	40
P08	2	40
P09	2	40
P10	2	40
P11	2	40
P12	2	40
P13	2	40
P14	2	40
P15	2	40
P16	2	40

Pole Wattage Summary	
Scene: GAME	
Label	Total Watts
P01	1538
P02	1538
P03	1538
P04	1538
P05	1538
P06	1538
P07	1538
P08	1538
P09	1538
P10	1538
P11	1538
P12	1538
P13	1538
P14	1538
P15	1538
P16	1538
TOTAL	24608

Luminaire Schedule						
Scene: GAME						
Symbol	Qty	Label	LLF	Lum. Watts	Arrangement	
⊙	8	AF-750-3-57	0.950	769	SINGLE	
⊙	8	AF-750-4-57	0.950	769	SINGLE	
⊙	16	AF-750-5-57	0.950	769	SINGLE	

Calculation Summary											
Scene: GAME											
Label	Area Size	Units	Avg	Max	Min	Max/Min	# Pts	PtSpcLr	PtSpcTb	CV	UG
FOOTBALL	360'x160'	Fc	32.21	44.7	23.5	1.90	72	30	30	0.19	1.87
SOCCER		Fc	32.21	44.7	23.5	1.90	72	30	30	0.19	1.87
SPILL @100'		Fc	0.48	0.9	0.1	9.00	63	30	N.A.	0.60	N.A.
SPILL @25'		Fc	3.01	8.7	1.4	6.21	43	30	N.A.	0.47	N.A.
SPILL @50'		Fc	1.25	1.6	0.6	2.67	50	30	N.A.	0.22	N.A.



**ROCKWALL HIGH SCHOOL**  
**ROCKWALL, TEXAS**  
**FOOTBALL/SOCCER/MULTI**  
**19-8660.AGI**

1. THIS LIGHTING DESIGN IS BASED ON INFORMATION SUPPLIED BY OTHERS. SITE DETAILS PROVIDED HEREON ARE REPRODUCED ONLY AS A VISUALIZATION AND FIELD DEVIATIONS MAY SIGNIFICANTLY AFFECT PREDICTED PERFORMANCE. PRIOR TO INSTALLATION, CRITICAL SITE INFORMATION (POLE LOCATIONS, ORIENTATION, HOISTING HEIGHT, ETC.) SHOULD BE COORDINATED WITH THE CONTRACTOR AND/OR SPECIFIER RESPONSIBLE FOR THE PROJECT.  
 2. LUMINAIRE DATA IS TESTED TO INDUSTRY STANDARDS UNDER LABORATORY CONDITIONS. OPERATING VOLTAGE AND NORMAL MANUFACTURING TOLERANCES OF LAMP, BALLAST, AND LUMINAIRE MAY AFFECT FIELD RESULTS.  
 3. COMPLIANCE TO FACILITY CODE AND OTHER LOCAL REQUIREMENTS IS THE RESPONSIBILITY OF THE OWNER AND/OR THE OWNER'S REPRESENTATIVE.

DRAWN BY: JC  
 Date: 2/12/2019  
 SCALE: NTS  
 Page 1 of 1  
 19-8660.AGI





## Introducing the latest in LED sports lighting innovation



The All-Field 750 is the most versatile LED fixture available for your sporting venue.

Versatile mounting bracket is designed for ease of installation in new or retrofit applications

Weather-tight design ensures durability even in harsh environments

Solid-state design (no moving parts) provides maintenance free operation

Ability to monitor health and status of each light

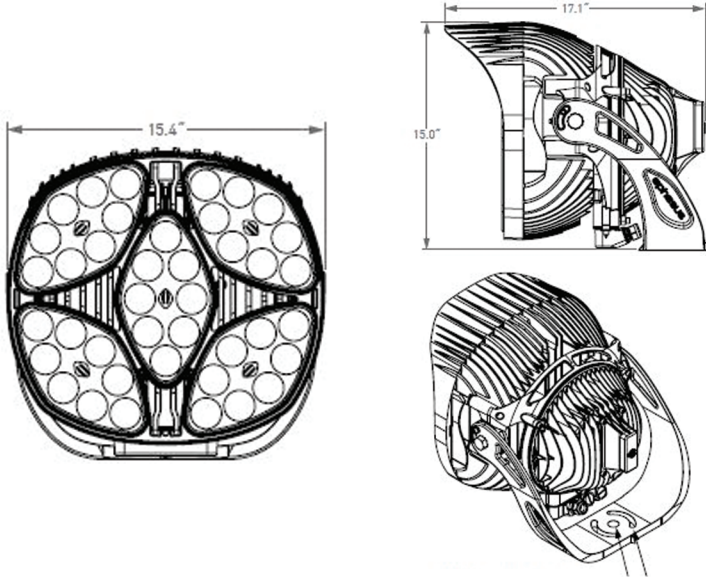
Low electromagnetic interference (EMI) noise generation eliminates interference with surrounding electrical systems

Wireless control options provide flexibility for operational usage and fan experience enhancements

Custom engineered optics direct light precisely where needed while minimizing glare.

Easy **RETROFIT** to your existing sports lighting system

Techline Sports Lighting introduces the All-Field 750 Sport LED fixture, the ideal solution for any setting including little league, municipal parks, high school, college and semi-professional outdoor sports venues. The All-Field 750 is the leading choice for all outdoor applications including football, soccer, tennis, baseball, softball, lacrosse, and field hockey. Maintenance free operation and precisely delivered HDTV quality light make the All-Field 750 the perfect choice for any application and provide an excellent return on investment.



### PERFORMANCE SPECIFICATIONS

	All Field 750
Lumen Output <sup>1</sup>	>83,000 Lumens
System Watts	750 watts
Input Voltage (High)	277VAC - 480VAC
Input Voltage (Low)	120VAC - 240VAC
CCT	5700K
L70 Hours	>160,000 hours at 25° C
Operating Temp Range	-40°C to 55°C
Surge	6kV
IP Rating	IP66
NEMA Rating	NEMA 4X
Effective Projected Area	1.4 ft <sup>2</sup>
Approximate Weight <sup>2</sup>	45 lbs. (20.45 kgs)

The All-Field 750 Sport LED is available with wireless or wired control to provide operational, monitoring and entertainment capabilities. Entertainment options include individual LED cluster control and 0-10V dimming. Fixture connectivity options are available from standard wired DMX to wireless Air-Mesh technology. Cellular, WiFi, or Bluetooth link enables telemetry to monitor health and status of each sport LED fixture.

### ORDERING OPTIONS

MODEL	WATTAGE	OPTICS	VOLTAGE	CONTROLS
AF	750	NEMA 2	VH - HIGH VOLTAGE	NC - NO CONTROLS
	550	NEMA 3	VL - LOW VOLTAGE	AM - AIR MESH
	400	NEMA 4		
		NEMA 5		
			SPILL CONTROL OPTION - EYELID	

1. The specifications listed were obtained under optimal testing conditions. Changes in options, features and conditions may result in slightly different performance specifications among fixtures.

2. Weight may vary depending on mounting bracket selection.

Clean power is required to ensure proper function and lifetime of LED fixtures. Prior to installation, an analysis should be performed to verify site power meets these requirements:

- High frequency voltage should be below -40dB or .01V between 3KH and 100KH
- High frequency current should be below -50dB or .019A between 3KH and 100KH

Surge protection alone is not adequate. Techline Sports Lighting will not be liable for damage to fixtures due to poor power quality. Contact Techline Sports Lighting for more information.



# **Rockwall High School 40' UltraCross® Dyneema Pole-to-Pole Tension Netting**

Prepared for: **Paragon Sports Constructors, LLC**

Prepared by: **Sportsfield Specialties, Inc.**

Submitted by: **JJ Darling**  
**Southwest Regional Sales**  
**Manager**

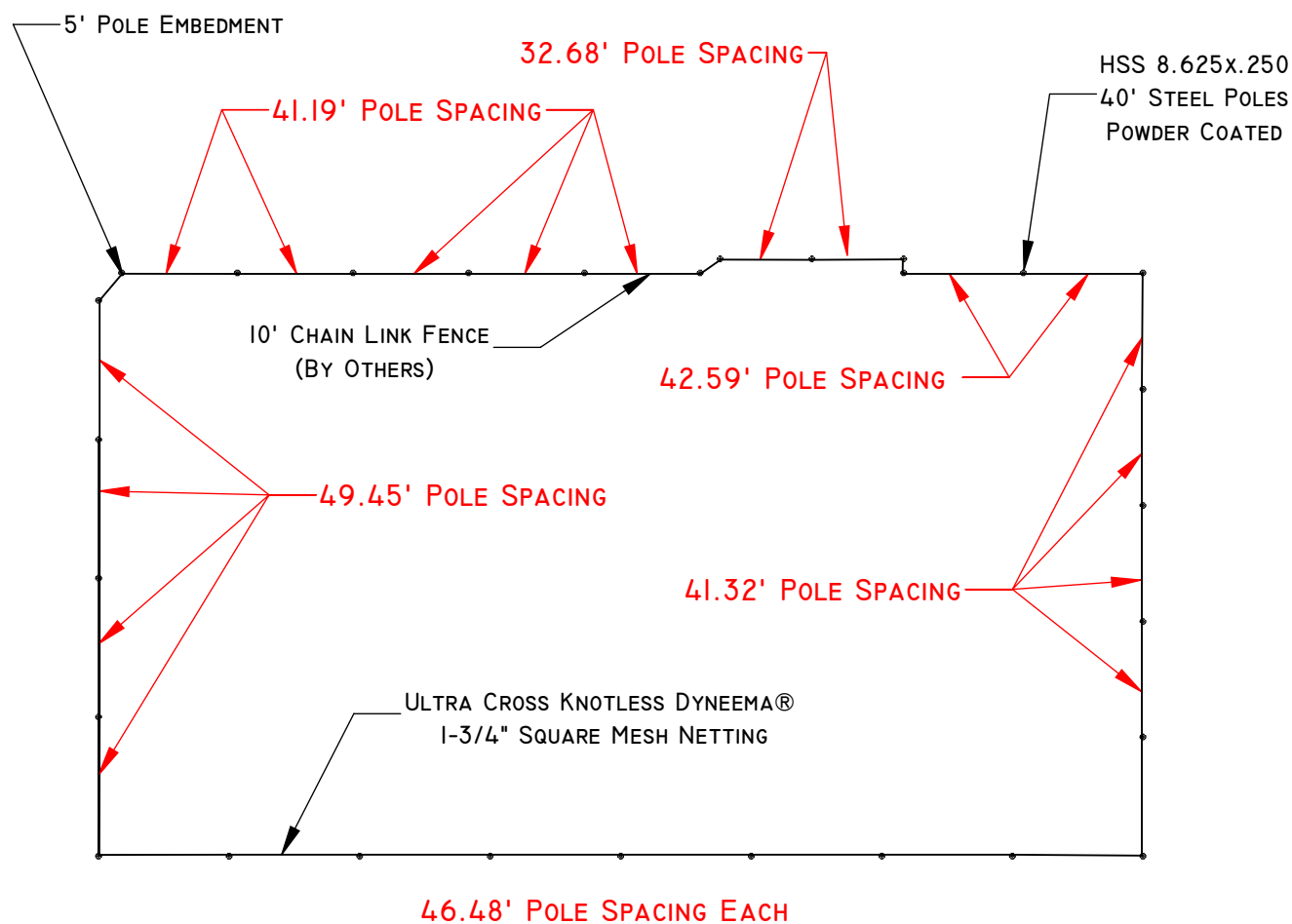


**January 31, 2019**

SSI TENSION NETTING SYSTEM POLES ARE DESIGNED TO STRENGTH, NOT DEFLECTION.

AS A RESULT, SOME DEFLECTION WILL OCCUR DURING INSTALLATION AND SHOULD BE CONSIDERED NORMAL.

DEFLECTION MAY ALSO BE EVIDENT IN CALM CONDITIONS, PARTICULARLY ON THE OUTER MOST POLES OF A GIVEN TENSION NETTING SYSTEM.



**Ball Safety Tension Netting System Product Layout Submittal Disclaimer:**

This ball safety tension netting system layout document is intended for the sole use of illustrative product submittal review purposes and should not be construed as a product installation document. All final ball safety tension netting system layouts, field dimensions and/or measurements should be both confirmed on the project plans and/or specifications and approved by the project designer of record prior to the start of the product installation.

Sportsfield Specialties, Inc. dba Promats Athletics cannot be held liable for any use of this ball safety tension netting system layout document that deviates and/or differs from the above stated illustrative product submittal review process and furthermore, Sportsfield Specialties, Inc. dba Promats Athletics cannot be held accountable for these actions.

Sportsfield Specialties, Inc. dba Promats Athletics protective netting systems are designed and intended as a complete netting system. In the event your facility purchases an extension to an existing protective netting system, Sportsfield Specialties, Inc. dba Promats Athletics does not make any representations or warranty relating to the overall design of the combined facility and/or the connection points to and the cables that are part of the existing netting system. Owner's decision to proceed with an extension in lieu of a complete new netting system will be at Owner's sole risk and without liability to Sportsfield Specialties, Inc. dba Promats Athletics and Owner shall indemnify and hold harmless Sportsfield Specialties, Inc. dba Promats Athletics from all claims, damages, losses and expenses arising out of or resulting therefrom.

**PROPRIETARY AND CONFIDENTIAL**  
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SPORTSFIELD SPECIALTIES INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SPORTSFIELD SPECIALTIES INC. IS PROHIBITED.

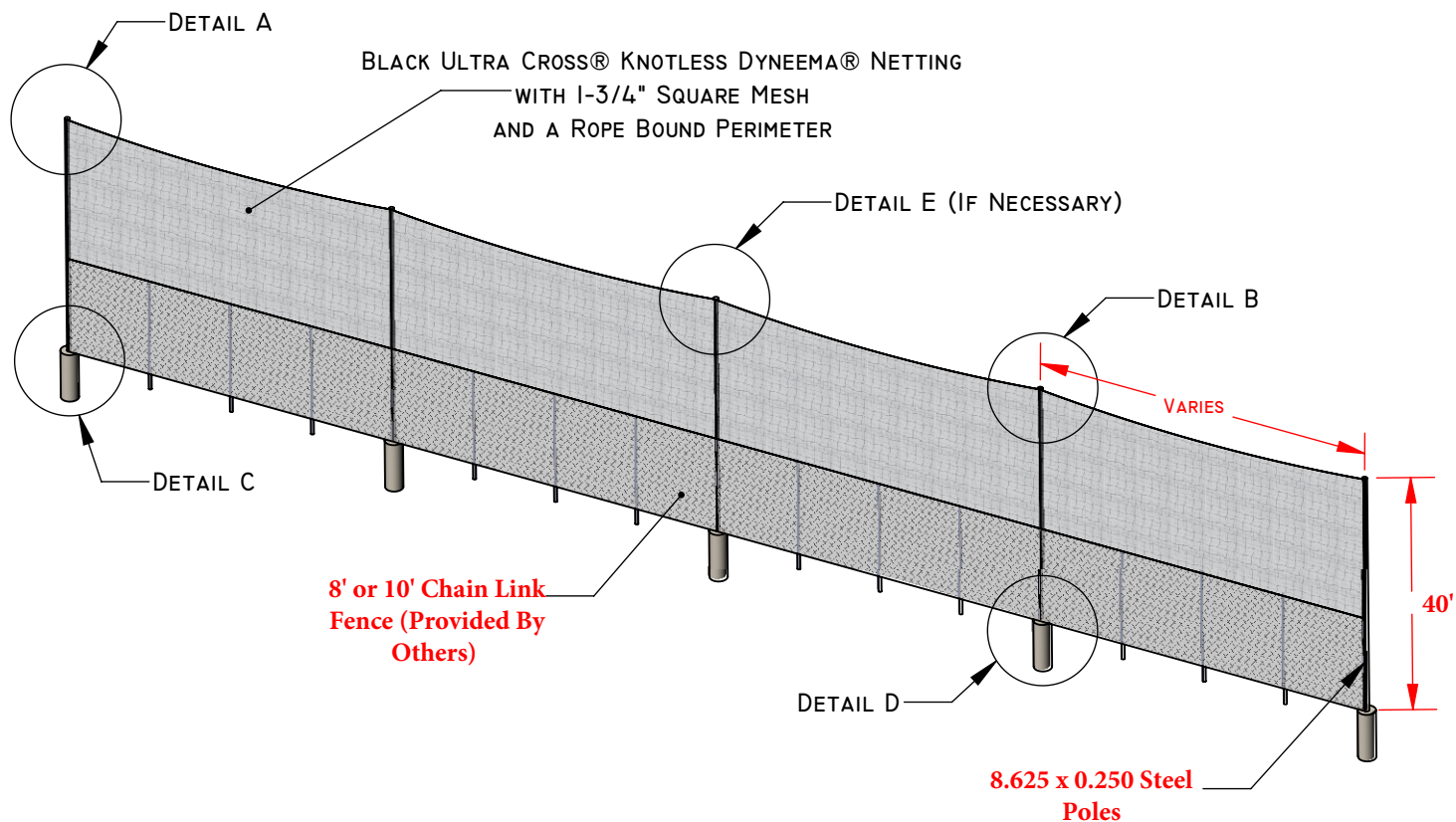
**ROCKWALL HIGHSCHOOL PERIMETER NETTING  
NETTING LAYOUT SUBMITTAL**

NOT TO SCALE

SPORTSFIELD SPECIALTIES INC 2/11/2019



STANDARD BLACK POWDER COATED FINISH



**FOUNDATION REQUIREMENTS BASED ON LOCAL CODES AND SOIL CONDITIONS**

**ALL CUSTOM TENSION NETTING SYSTEM SIZES AND LAYOUTS REQUIRE DESIGN AND PROFESSIONAL ENGINEERING**

**SSI TENSION NETTING SYSTEM POLES ARE DESIGNED TO STRENGTH, NOT DEFLECTION. AS A RESULT SOME DEFLECTION WILL OCCUR DURING INSTALLATION AND SHOULD BE CONSIDERED NORMAL. DEFLECTION MAY ALSO BE EVIDENT IN CALM CONDITIONS, PARTICULARLY ON THE OUTER MOST POLES OF A GIVEN TENSION NETTING SYSTEM.**

**PROPRIETARY AND CONFIDENTIAL**

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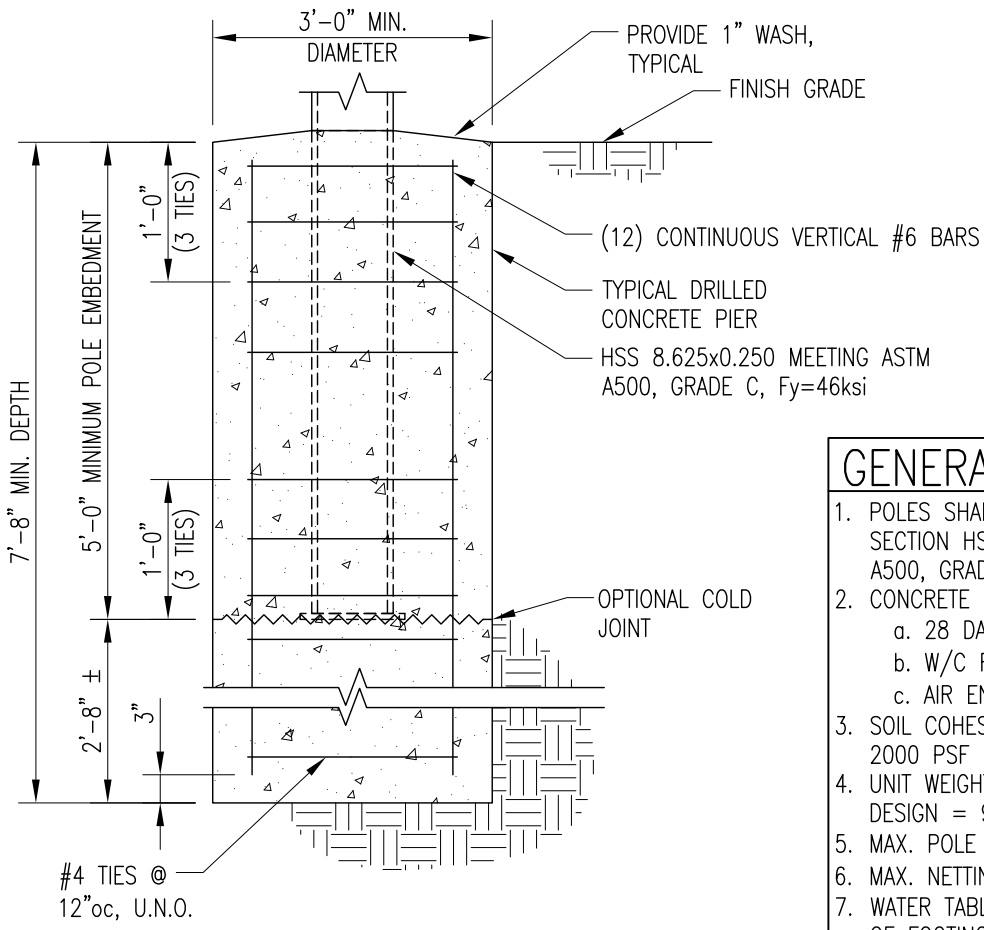
# Rockwall HS UltraCross Tension Netting

NOT TO SCALE

SPORTSFIELD SPECIALTIES INC III32018



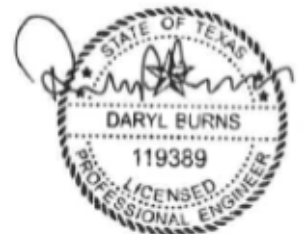
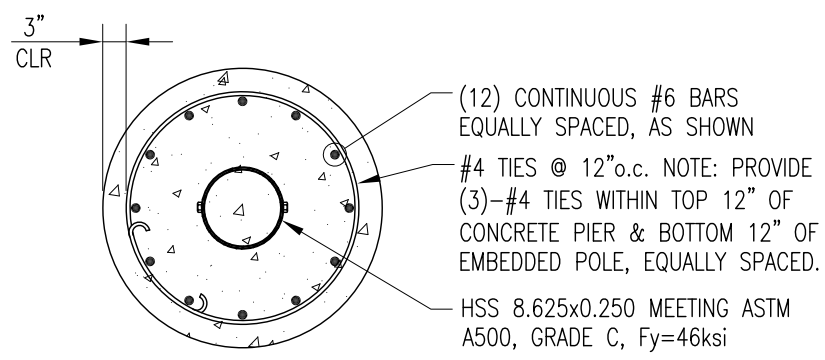
- Length, Height and Configuration as Required
- Ultra Cross **Knotless** Dyneema® Netting
- Dyneema® Ultra-High Molecular Weight Polyethylene (UHMWPE)  
SK-75 Black Fiber Construction
- **4 Ply, 1.2 mm (0.0472") Diameter Twine**
- 95% Open Mesh Area (See-Through Visibility)
- **58,445 psi Minimum Breaking Strength**
- 30% Maximum Elongation at Break
- 1-3/4" (44 mm) Square Mesh Size, 0.009 lbs. per Square Foot
- 4 Strand, Braided, Continuous Monofilament Dyneema® Fiber
- Sewn Perimeter Black Multi-Filament Polypropylene Solid Braid Rope  
Bound Border - 1/4" Diameter, 530 lb. Minimum Breaking Strength
- Urethane Black Bonded Finish (Other Color Choices Available)
- Strong Resistance to Ultraviolet (UV) Light Degradation
- Excellent Resistance to Chemicals and Water Absorption



FOUNDATION DESIGN IS APPLICABLE FOR BOTH DIRECT EMBEDMENT AND SLEEVED POLES

- SYSTEM NOTES:**
- FOOTING FOR USE WITH ULTRACROSS 1 $\frac{3}{4}$ " NETTING & #9 x 1 $\frac{3}{4}$ " CHAIN LINK FENCE
  - MINIMUM CABLE SAGS 40'-0" SPAN = 12" MIN.
  - DESIGN WIND SPEED FOR BARE POLE = 105mph
  - EXPOSURE CATEGORY B

- GENERAL NOTES:**
- POLES SHALL BE HOLLOW STRUCTURAL SECTION HSS 8.625x0.250 AND MEET ASTM A500, GRADE C, Fy=46ksi
  - CONCRETE SHALL MEET THE FOLLOWING:
    - 28 DAY STRENGTH = 4,000psi (MIN.)
    - W/C RATIO = 0.46
    - AIR ENTRAINMENT = 5.5 +/- 1%
  - SOIL COHESION VALUE USED FOR DESIGN = 2000 PSF
  - UNIT WEIGHT OF SOIL FOR FOUNDATION DESIGN = 93 PCF
  - MAX. POLE HEIGHT = 40'-0"
  - MAX. NETTING HEIGHT = 32'-0" (8' FENCE)
  - WATER TABLE ASSUMED TO BE BELOW BOTTOM OF FOOTING FOR DESIGN.
  - IF FOOTING IS NOT AUGURED, COMPACT SOIL SURROUNDING FOOTING TO 95% MODIFIED PROCTOR.



2/6/19

**1** 40' NETTING FOOTING DETAILS  
 SK-01 SCALE: NONE

**DELTA**  
 ENGINEERS, ARCHITECTS, & LAND SURVEYORS

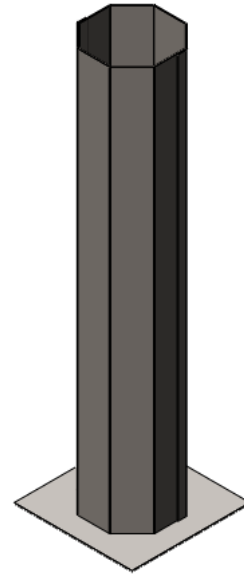
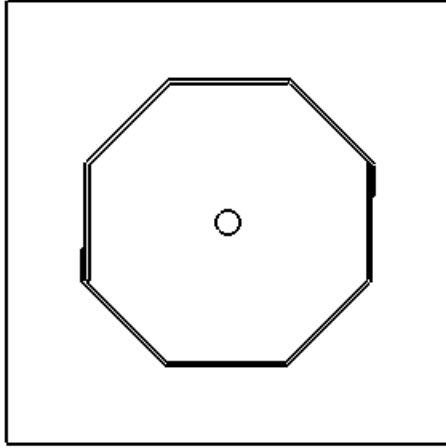
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Project Name		ROCKWALL HS POLE-TO-POLE TENSION NETTING SYSTEM
Scale		AS SHOWN
Project No.		2019.202.010
Date		FEBRUARY 5, 2019
<small>WARNING: THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER, LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT OR LICENSED SURVEYOR FOR A LICENSED SURVEYOR, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.</small>		

Drawing Title	40' NETTING FOOTING DETAILS
Drawing No.	SK-01



## Ground Sleeve Install



1. Mark the locations of the ground sleeves on the field. Being sure to match the center distance to the desired system.
2. Excavate holes for foundations and set the concrete forms.
3. Center the ground sleeve in the form and secure it in a plumb and level position. The top of the ground sleeve should be set according to the site plans (Generally level with Finish Grade).
4. Pour concrete foundation to the top of the sleeve. Allow concrete to adequately cure.
5. Caulk all around the top of the ground sleeve, using backer rod where needed to prevent the caulk from falling into the ground sleeve.

## 2. Assembling Hardware

- a) Start by laying out the cables to ensure the proper lengths are present for each run. Cut the cable as necessary based on each run, adding a 6" turn back at each end of the cable.
- b) Start the horizontal tensioned cables (5/16" DIA) by assembling a 5/8" x 12" turnbuckle to an eye bolt at one end (Figure 1). The wire will pass through the poles at which the cable run does not terminate (Figure 2). At the poles where the cable run terminates, attach the cable with turn back and rope clips directly to the eye bolt at opposite end (Figure 3).

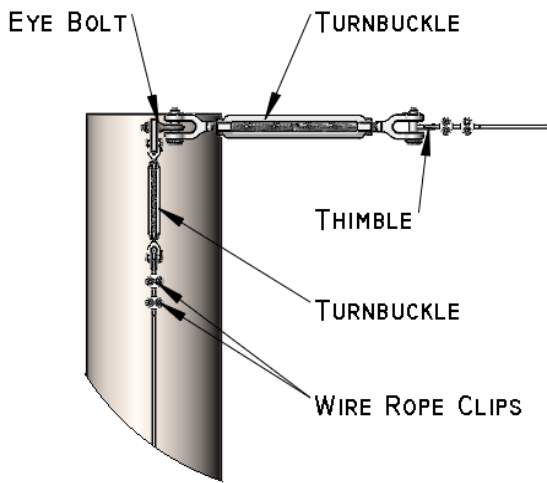


Figure 1

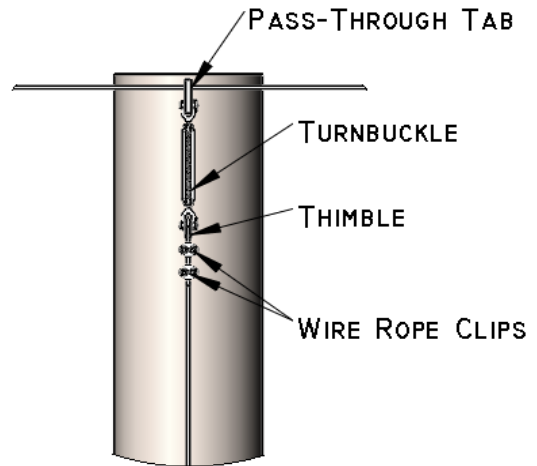


Figure 2

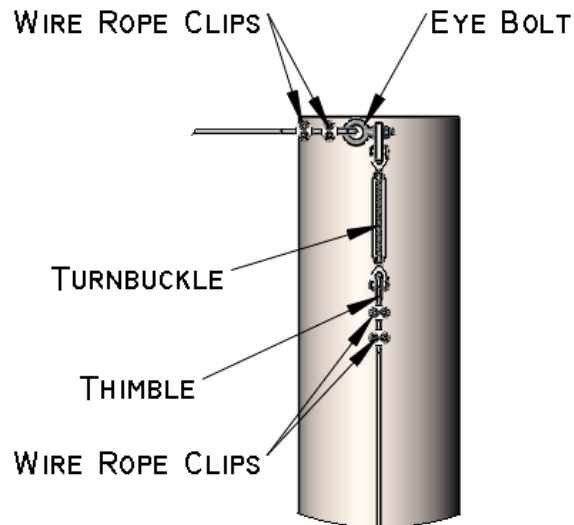
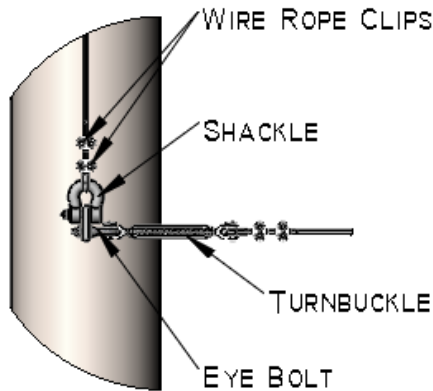
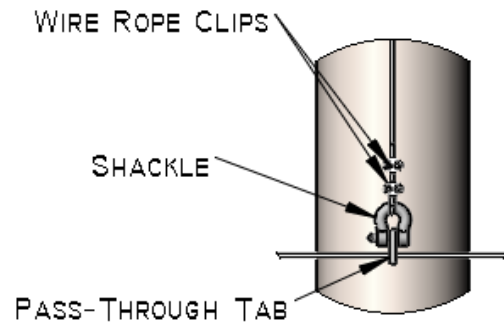


Figure 3

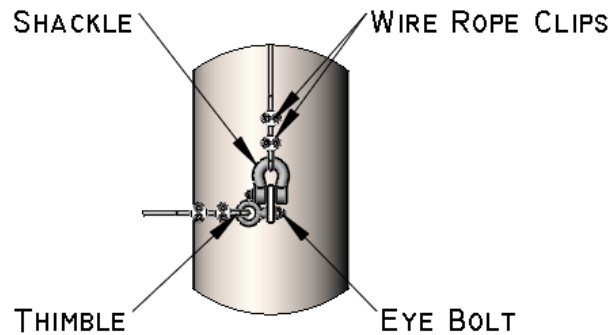
- c) The horizontal cables can be finished with the bottom (1/4" DIA) cable. This cable is assembled the same way as the tensioned cables. Start the cable by attaching to an eye bolt at one end (Figure 4). The cable will pass through a series of eye bolts (recommended 5' spacing) or equivalent guides, then through the poles at which the cable run does not terminate (Figure 5). At the end pole where the cable run terminates, attach the cable (with turn back and rope clips) directly to the eye bolt (Figure 6).



**Figure 4**



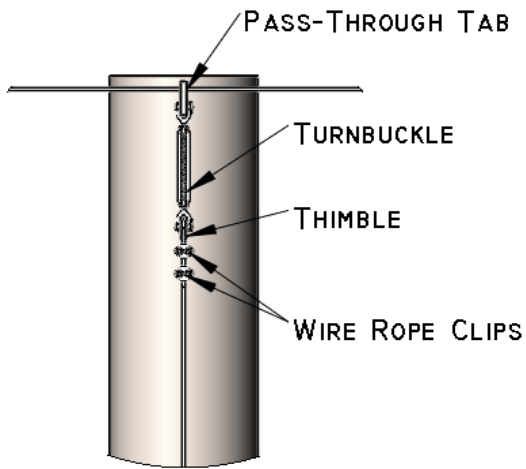
**Figure 5**



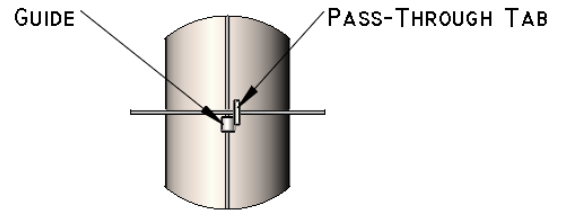
**Figure 6**

- d) Vertical cables (1/4" DIA) can be done the same way as the tensioned cables, with a 1/2" x 9" turnbuckle at the top of the pole (Figure 7) and a heavy-duty shackle at the bottom of the pole (Figure 9). Make sure to thread the vertical cables through the guide tube (Figure 8).

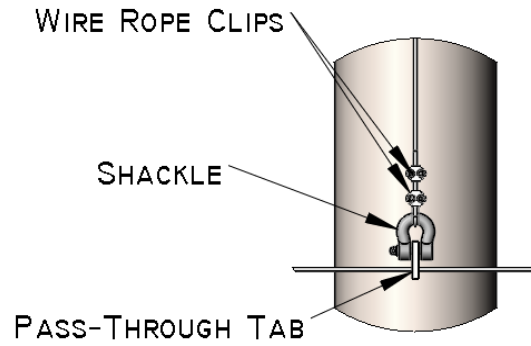




**Figure 7**



**Figure 8**



**Figure 9**

- e) Once all of the cables have been mounted on the poles, tension the horizontal and vertical cables with the turnbuckles. Do not tighten turnbuckles so much that the poles themselves deflect.

- f) Now the nets can be hung from the assembled cables. Using the zip-ties, pull the net to the top, each side cable, the remaining horizontal cables and then the bottom cable. Finally, the net can be secured to the cables using the supplied braided rope, looping through each square of the net binding and around the cable (Figure 10). For Ultra Cross netting systems, it's important to leave excess material along the net perimeter (i.e. no short tag ends and a minimum of one extra square) so that the net intersection doesn't fail prematurely.



**Figure 10**

SSI tension netting system poles are designed to strength, not deflection. As a result, some deflection will occur during installation and should be considered normal. Deflection may also be evident in calm conditions, particularly on the outer most poles of a given tension netting system.