

#### September 14, 2021

#### SOLICITATION ADDENDUM NO. 1 ITB 21-0006 Mountainside High School Field Turf Remediation

#### THE FOLLOWING CHANGES/ADDITIONS TO THE ABOVE CITED SOLICITATION ARE ANNOUNCED:

This Addendum modifies the Invitation to Bid (ITB) document(s) only to the extent indicated herein. All other areas not changed or otherwise modified by this Addendum shall remain in full force and effect. This Addendum is hereby made an integral part of the ITB document. Bidder must be responsive to any requirements of this Addendum as if the requirements were set forth in the ITB. Failure to do so may result in Bid rejection. See the ITB regarding requests for clarification or change and protests of this Addendum, and the deadlines for the foregoing.

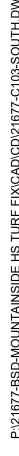
This addendum is to be acknowledged in the space provided on the Bidder Certification form supplied in the solicitation document. Failure to acknowledge receipt of this addendum may be cause to reject your offer.

#### The closing date **REMAINS UNCHANGED:** September 21, 2021 at 2:00 PM Pacific Time

#### **CLARIFICATONS:**

Please see the Additional Drawings C103 Soccer Field and Background Information.







STOCKPILE BASE AND LEVELING-AGGREGATE MATERIALS TO GREATEST EXTENT POSSIBLE FOR REINSTALLATION. INSTALL ANY NEW/REPLACEMENT MATERIAL CONFORMING TO DETAIL #3 ON SHEET X3.1 OF PROJECT RECORD DRAWINGS.

STOCKPILE "DRAIN ROCK WITH 40%-VOIDS" AGGREGATE BASE MATERIALS TO GREATEST EXTENT POSSIBLE FOR REINSTALLATION

REMOVE "CLEAN DRAIN ROCK"-MATERIAL IN STORM TRENCH TO PROVIDE A LEVEL TURF SURFACE

N.T.S.

JV BASEBALL & SOCCER FIELD

## **CONSTRUCTION KEY NOTES**

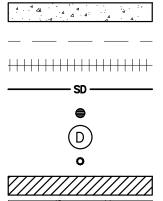
1 CONSTRUCTION EQUIPMENT AND VEHICLE ACCESS POINT.

3 APPROXIMATE LIMIT OF HEAVE REPAIR, THIS PHASE. REFER TO 'TRENCH LEVELING DIAGRAM', THIS SHEET.

4 PROVIDE NEW TURF PATCH EDGE, AS DIRECTED BY MANUFACTURER.

APPROXIMATE LIMITS OF FIELD ACCESS ROUTE. PROTECT EXISTING TURF FIELD AND CONCRETE SURFACING THROUGHOUT CONSTRUCTION. CONTRACTOR TO PROVIDE MEANS AND METHODS FOR PROTECTING EXISTING CONCRETE SURFACES DURING CONSTRUCTION FOR REVIEW BY OWNER, PRIOR TO COMMENCING WORK.

## SYMBOL AND LINE TYPE LEGEND



VEHICLE RATED CONCRETE (AS RECORDED)

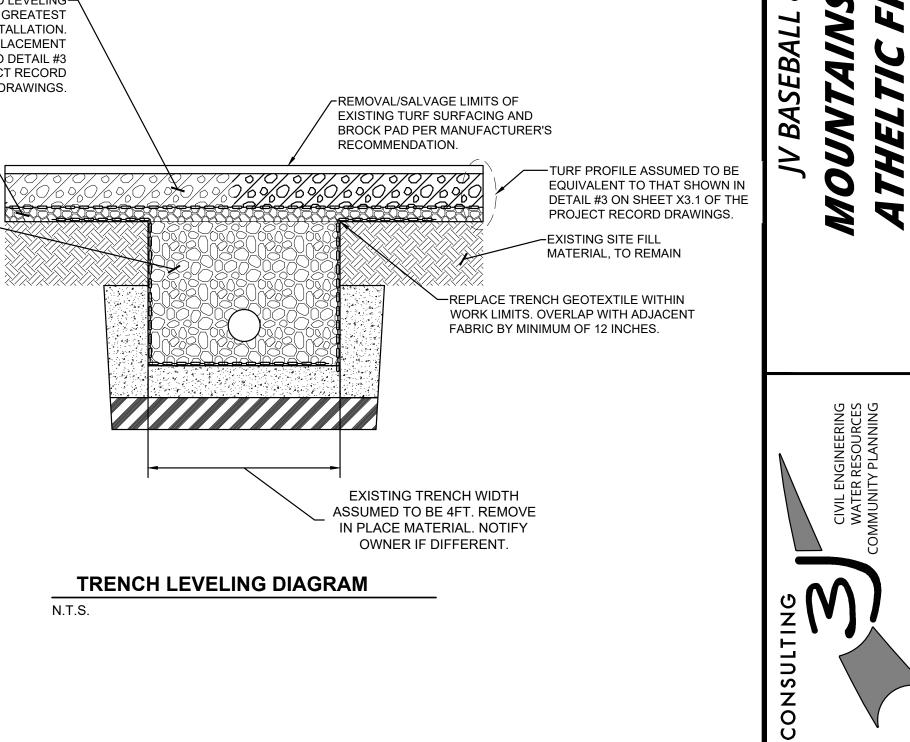
APPROXIMATE TURF SEAMING (AS SUBMITTED BY SUPPLIER) TURF UNDERDRAIN (AS RECORDED)

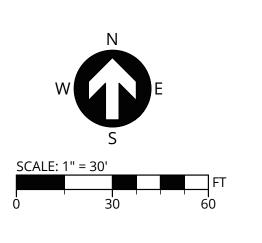
STORM DRAIN (AS RECORDED)

STORM DRAIN (AS RECORDED)

STORM MAINTENANCE HOLE STORM DRAIN CLEANOUT (AS RECORDED)

APPROXIMATE ALIGNMENT OF TRENCH HEAVE REPAIR (YELLOW) FIELD ACCESS ROUTE. PROTECT EXISTING SURFACE FROM RUBBER MARKS, TRACKING, AND STRUCTURAL DAMAGE SUCH AS CRACKING AND SPALLING.





PUBLISH DATE 05-20-2021 ISSUED FOR CONSTRUCTION REVISIONS

PLAN

FIEL

ER

0 5 8

PROJECT INFORMATION 3J PROJECT # | 21677 TAX LOT(S) | N/A LAND USE # | N/A DESIGNED BY | JTE CHECKED BY | JDH

3.)





## Submittal Review

item:	Base and Leveling Aggregate for Synthetic Turf Fields	submittal no:	409-312123-0
project:	South Cooper Mountain High School	atlas project no.:	14016
date:	September 7, 2016		

*by:* Nick Wilson

Review of submittal is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of this work with that of all other trades; and the satisfactory performance of his work. A submittal review does not alter the Contract Documents or relieve the contractor of any obligation thereunder.

Rejected

Submittal incomplete

Number of pages this submittal:

Review Status:

 $\boxtimes$  No exception taken

Note comments below

Action required:

] No re-su	bmittal	required
------------	---------	----------

Revise and re-submit

Re-submittal not required if corrections are made as noted

Submit missing item(s) noted below

Submit specified item(s) noted below

Comments:

The base and leveling rock are a little out of spec on some sieve sizes but are within acceptable margins, and consistent with sieve analyses of rock successfully used on other projects.

12562*SW* Main *St.* Nº 210 *Tigard, OR* 97223

*telephone* 503.224.5238

*e-mail* firstname@ atlas-la.com

## SUBMITTAL TRANSMITTAL RECORD

#### South Cooper Mountain High School

			Submittal No.:			
	Hoffman Construc	ction Co.	Description:			
	Lic. # 28417 South Cooper Mountain High School 12500 SW 175 <sup>th</sup> Ave.		For: [ ] Review [ ] Infor	mation [ ] Co	ordination	
			Specification Reference:			
	Beaverton, OR 97007		Bid Package:			
			Supplier/Subcontractor:			
			Address:			
	51(0515		Phone:		Contact:	
HCC Job #	5169515					
		1		1		
]	Routing	# Copies	Attention	Date Sent	Date Received	Date Due

\_\_\_\_\_

mittal #	Description	Action	Comments
		Review	

#### **HCC Comments:**

HOFFMAN CC	INSTRUCTION COMPANY
	wed for general conformance with the
contract documents. Contract	tor's review does not relieve the
Vendor/Subcontractor of resp	oonsibility for compliance with all
requirements of the contract,	including completeness and accuracy of
this submittal.	
08/27/2016	409-312123-0
Date	Submittal #
RobinsonA	
Reviewed By	-

#### **DESIGN OPERATIONS:**



### SUBMITTAL TRANSMITTAL

**DATE:** August 19, 2016

#### ATTENTION:

Andrew Robinson Hoffman Construction Company 805 SW Broadway, Suite 2100 Portland, Oregon 97205

**PROJECT:** South Cooper Mountain High School

I am sending you the following for approval and use on the above referenced project:

- 1. Base Aggregate Baker Rock  $1-1/2'' \frac{3}{4}''$  Drain Rock 1 Page.
- 2. Leveling Aggregate Baker Rock ½"-#4F HMAC AGG 1 Page.
- 3. Subgrade Geotextile Fabric TerraTex N06 Non-Woven 1 Page.

#### SUBMITTED BY:

Kelly Fitzpatrick

#### **CONTRACT SECTION:**

Section 31 21 23

#### **REMARKS:**

Samples will be delivered to the jobsite under a separate transmittal.



	FIELI	D WORK	SHEET	FOR AG	GREG	SATE	=	E Eng	lish (E)	or Metr	ic (M)	
	AME (SECTION)	n an the second seco						-lousseline-	CON	TRACT NU	MBER	
	MHE	>										
CONTRACTO	R OR SUPPLIER				PROJECT M				BID I	TEM NUMBE	R	
SOURCE NA		er Rock Re	sources		SOURCE NU		nmark Contra	acting	MATE	RIAL SIZE		
SOURCE NA		armington C	Quarry		SUURCE NC	NINDER	34-080-1			11/2"-3	3/4"	
TEST NO.	DATE	TIME	SAMPLED A	Т	1		το	BE USED IN				
QC	12/29/2	015 7:50		St	ockpile			D	RAIN R	OCK		
SIEVE	SPECS.		SI	EVE ANALY	SIS A	ASHT	O T27/11			F	М	
SIZE	LIMITS	MASS 1	MASS 2	MASS 3	MASS	4	TOTAL MASS	% RET	% PASS	CUMU % RET	LATIVE	
2		0.0	0.0	0.0	0.0		0.0	0.0	100		Does	not meet
11/2		181.9	336.0	71.0	262.	6	851.5	5.5	95			312123,
1		2030.0	2233.3	1260.7	1704	.6	7228.6	46.8	48	$\sim$		e advise if
3/4		1071.0	974.3	1516.0	1469	.3	5030.6	32.6	15	F)	this is	s acceptab
1/2		489.2	0.0	900.2	707.		2096.8	13.6	2	K		
3/8		0.0	0.0	0.0	28.5	5	28.5	0.2	1	K		
1/4		0.0	0.0	0.0	17.5	5	17.5	0.1	P4	Y		
4		0.0	0.0	0.0	2.9		2.9	0.0	1			
10		0.0	0.0	0.0	7.8		7.8	0.1	1			
40		0.0	0.0	0.0	16.4	4	16.4	0.1	1			
200		0.0	0.0	0.0	46.4	4	46.4	0.3	0.7			
PAN		0.0	0.0	0.0	34.2	2	34.2	0.2				
B = 1	NITIAL DRY	MASS:	15437	D =MASS AF	TER SIEV	ING:	15361.2	]				
SIEVE	SPECS.	FRAC	TURE % ME	THOD 2 TP	-61		SATED PIECES		SE T	176		
SIZE	LIMITS	FRAC MASS (F)	QUESTIONABLE MASS (Q)	NON FRAC	INDIVIDUAL	TES		1	2	3	Sample	
SIZE	LIMITS	FRAC MASS (F)	QUESTIONABLE MASS (Q)	NON FRAC MASS (N)	INDIVIDUAL FRAC %	TES MAS		1	2	3	Sample Clay	
SIZE	LIMITS							1	2	3		
SIZE	LIMITS								2	3	Clay Sand	
SIZE	LIMITS							1 AVG.	2	3 SPEC	Clay Sand S.E.	
SIZE	LIMITS									SPEC	Clay Sand S.E.	
SIZE	LIMITS							AVG. PAN TA		SPEC	Clay Sand S.E. N/A	
SIZE	LIMITS							AVG. PAN TA WET MA	ARE SS & PAM	SPEC 2 18	Clay Sand S.E. N/A 437.8	
								AVG. PAN TA WET MA	ARE	SPEC 2 11 11 11	Clay Sand S.E. N/A 437.8 3414.0	
		MASS (F)	MASS (Q)	MASS (N)		MAS	S MASS	AVG. PAN TA WET MA DRY MASH	ARE SS & PAN SS & PAN DRY MASS &	SPEC 2 1 18 1 17 PAN 17	Clay Sand S.E. N/A 437.8 3414.0 7874.8 7805.7	
C = AFTER \	LIMITS	MASS (F)		MASS (N)			S MASS	AVG. PAN TA WET MA DRY MASH	ARE SS & PAN DRY MASS & TC AASHTC	SPEC 2 1 18 1 17 PAN 17	Clay Sand S.E. N/A 437.8 3414.0 7874.8 7805.7	
C = AFTER \ A = WET MA	WASH DRY MASS & NSS & PAN - PAN	MASS (F)	MASS (Q) B = DRY MASS & F RESULT	MASS (N)	FRAC %	DRY	S MASS	AVG. PAN TA WET MA DRY MAS AFTER WASH WAQ	ARE SS & PAN DRY MASS & TC AASHTC	SPEC 2 N 18 I 17 PAN 17 DT-27/T1	Clay Sand S.E. N/A 437.8 3414.0 7874.8 7805.7	
C = AFTER V A = WET MA	WASH DRY MASS 8 NASS & PAN - PAN e % Method	MASS (F)	MASS (Q)	MASS (N)	FRAC %	DRY	S MASS	AVG. PAN TA WET MA DRY MAS AFTER WASH WAQ	ARE SS & PAN DRY MASS & TC AASHTC	SPEC 2 N 18 I 17 PAN 17 DT-27/T1	Clay Sand S.E. N/A 437.8 3414.0 7874.8 7805.7	
C = AFTER V A = WET MA Fracture Wood V	WASH DRY MASS & NSS & PAN - PAN e % Method Vaste	MASS (F)	MASS (Q)	MASS (N)	FRAC %	DRY	S MASS	AVG. PAN TA WET MA DRY MAS AFTER WASH WAQ	ARE SS & PAN DRY MASS & TC AASHTC	SPEC 2 N 18 I 17 PAN 17 DT-27/T1	Clay Sand S.E. N/A 437.8 3414.0 7874.8 7805.7	
c = AFTER V A = WET MA Fracture Wood V Cleanne	WASH DRY MASS 8 NSS & PAN - PAN e % Method Waste essValue	MASS (F)	MASS (Q) B = DRY MASS & F RESULT	MASS (N)	X Rou R E M A	DRY	S MASS	AVG. PAN TA WET MA DRY MAS AFTER WASH WAQ Rectangle	ARE SS & PAN SS & PAN DRY MASS & TC AASHTO	SPEC 2 11 11 11 11 11 11 11 11 11 11 11 11 1	Clay Sand S.E. N/A 437.8 3414.0 7874.8 7805.7 1 Size	
C = AFTER V A = WET MA Fracture Wood V Cleanne Flat & E	WASH DRY MASS & ASS & PAN - PAN e % Method Waste essValue Elongated	MASS (F)	MASS (Q) B = DRY MASS & F RESULT	MASS (N)	R R R	DRY	S MASS	AVG. PAN TA WET MA DRY MAS AFTER WASH WAQ	ARE SS & PAN SS & PAN DRY MASS & TC AASHTO	SPEC 2 11 11 11 11 11 11 11 11 11 11 11 11 1	Clay Sand S.E. N/A 437.8 3414.0 7874.8 7805.7 1 Size	
C = AFTER MA A = WET MA Fracture Wood V Cleanne Flat & E Finenes	WASH DRY MASS & ASS & PAN - PAN e % Method Vaste essValue Elongated ss Modulus	MASS (F) MASS (F) 1 TP-61 TM225 TM 227 TM 229 T 27/T11	MASS (Q) B = DRY MASS & F RESULT	MASS (N)	Revenue of the second s	DRY	S MASS	AVG. PAN TA WET MA DRY MAS AFTER WASH WAQ Rectangle	ARE SS & PAN SS & PAN DRY MASS & TC AASHTO	SPEC 2 11 11 11 11 11 11 11 11 11 11 11 11 1	Clay Sand S.E. N/A 437.8 3414.0 7874.8 7805.7 1 Size	
C = AFTER V A = WET MA Fracture Wood V Cleanne Flat & E Finenes MOISTUR	WASH DRY MASS 8 ASS & PAN - PAN e % Method Waste essValue Elongated ss Modulus RE %={(A-B) / E	MASS (F) MASS (F) 1 TP-61 TM225 TM 227 TM 227 TM 229 T 27/T11 3} X 100	MASS (Q)	MASS (N)	R R R	DRY	S MASS	AVG. PAN TA WET MA DRY MAS AFTER WASH WAQ Rectangle	ARE SS & PAN SS & PAN DRY MASS & TC AASHTO	SPEC 2 11 11 11 11 11 11 11 11 11 11 11 11 1	Clay Sand S.E. N/A 437.8 3414.0 7874.8 7805.7 1 Size	
C = AFTER V A = WET MA Fracture Wood V Cleanne Flat & E Finenes MOISTUR SIEVE LC	WASH DRY MASS & ASS & PAN - PAN e % Method Vaste essValue Elongated as Modulus RE %={(A-B) / E DSS %={(C-D) /	MASS (F) MASS (F) 1 TP-61 TM225 TM 227 TM 227 TM 229 T 27/T11 3} X 100	MASS (Q)	MASS (N)	Revenue of the second s	DRY	S MASS	AVG. PAN TA WET MA DRY MAS AFTER WASH WAQ Rectangle	ARE SS & PAN SS & PAN DRY MASS & TC AASHTO	SPEC 2 11 11 11 11 11 11 11 11 11 11 11 11 1	Clay Sand S.E. N/A 437.8 3414.0 7874.8 7805.7 1 Size	
C = AFTER V A = WET MA Fracture Wood V Cleanne Flat & E Finenes MOISTUR SIEVE LC (Nº10 / 1/ X QUA	WASH DRY MASS & ASS & PAN - PAN e % Method Vaste Elongated as Modulus RE %={(A-B) / E DSS %={(C-D) / (4") x 100 LITY CONTROL	MASS (F) MASS (F) 1 TP-61 TM225 TM 227 TM 229 T 27/T11 3} X 100 (C} X 100	MASS (Q)	MASS (N)	Revenue of the second s	DRY	S MASS X WET Square	AVG. PAN TA WET MA DRY MAS AFTER WASH WAQ Rectangle	ARE SS & PAN SS & PAN DRY MASS & TC AASHTO	SPEC 2 11 11 11 11 11 11 11 11 11 11 11 11 1	Clay Sand S.E. N/A 437.8 3414.0 7874.8 7805.7 1 Size	
C = AFTER V A = WET MA Fracture Wood V Cleanne Flat & E Finenes MOISTUR SIEVE LC (№10 / 1/ X QUA	WASH DRY MASS & ASS & PAN - PAN e % Method Vaste Elongated as Modulus RE %={(A-B) / E DSS %={(C-D) / (4") x 100 LITY CONTROL	MASS (F) MASS (F) MAS	MASS (Q)	MASS (N)	R E A R K S C DENT ASSL	DRY	S MASS X WET Square	AVG. PAN TA WET MA DRY MAS AFTER WASH WAQ Rectangle	ARE SS & PAN SS & PAN DRY MASS & TC AASHTO	SPEC 2 11 11 11 11 11 11 11 11 11 11 11 11 1	Clay Sand S.E. N/A 437.8 3414.0 7874.8 7805.7 1 Size	

ECT NAM		R	EGION #1	Comm. P	roduct				BID IT		ER
TRACTOR	OR SUPPLIER	Rock Reso			PROJECT MAN	Barb V	Vorbingto	n		RIAL SIZE	
RCE NAM	5				SOURCE NUM		-080-1			1/2"-#	8
T NO.	Far IDATE	mington Qu	SAMPLED AT					E USED IN			
QC	7/28/201	6 8:00		Fir	nal Belt			+	IMAC A		
EVE	SPECS.		SIE	VE ANALY	SIS AA	SHTO T	27/11	1			M
IZE	LIMITS	MASS 1	MASS 2	MASS 3	MASS 4	4 TOT	AL MASS	% RET	% PASS	% RE	TAINED
	Linnie	C. see and the			Sec. Lat		0.0	0.0	100	Carlos and	Does no
	Martin Star						0.0	0.0	100		spec 31
							0.0	0.0	100		please a this is a
3/4	99-100	0.0					155.1	6.2	194	6	
1/2	90-100	155.1	Not	Alexandra Santas		n de la compañía de la	394.0	15.7	78	14	and a second
3/8	-	394.0	T. Same		AND AND		497.1	19.8	58	K	Aller Aller
1/4	-	497.1	State States				262.4	10.5	48	K	and a
4	40-56	262.4		<u>80 (1975)</u>			449.6	17.9	30	1	
8	24-34	449.6 271.0					271.0	10.8	19	14	
16	40.46	135.3				1.1.1	135.3	5.4	14	K	a series a
30	10-16	89.6					89.6	3.6	10	R	
50 100	-	52.8			a sala		52.8	2.1	8	R	
200	5.4-7.4	45.4		Sector Alle			45.4	1.8	6.2	P	
PAN	0.41.4	28.4			and B.		28.4	1.1	<u>p</u>	1	
B=1	NITIAL DRY	MASS:	2506	D =MASS A	FTER SIEV	ING:	2380.7			470	
SIEVE	SPECS.		URE % ME	THOD 2 TI	P-61		ED PIECES		SET	176	
		FRAC	QUESTIONABLE MASS (Q)	NON FRAC MASS (N)	INDIVIDUAL FRAC %	TEST MASS	ELONG MASS	1	2	3	
SIZE	LIMITS Face	MASS (F)	1412100 (44)					and the second		<u>1 (28.)</u>	Clay
2 1/2"	75-100%					155.1	0.0	1000	<u> </u>		Sand S.E.
3/8"	Roll down					394.0	7.6			CDI	EC N/A
3/0	Roll down					497.1	13.1	AVG	STATE OF THE OWNER OF THE OWNER	ISPE	412.2
#4	75-100%	with service of	A A St	Longin and		262.4	2.5	PAN			2982.2
H-T		A Company				19.00		-	ASS & PA	1	2918.2
1	Face			Sec. 12		1000		and the second division of the second divisio	SH DRY MASS		2795.9
#8	75-100%	1 and	S. T. San Street	A Start Start		and Solid		Reprise of the local distance	AQTC AASH		T11
	WASH DRY MASS IASS & PAN - PAN	& PAN - PAN	B = DRY MASS & RESULT		XRo		X WE Square	Rectang		12"	Size
Fractu	re % Method		President and an operation of the bolic state of the bolic state		R L		EL				1
	Waste	TM225	and the second se	0.10max	<u>м</u> –	200	ARE	-01	STE	EC	) )
	nessValue	TM 227		40.0		. 1.					
	Elongated	TM 229	the second se	10.0max	% R -	DYF	2617	ET	12		
	ess Modulus	T 27/T11	1		K	TUR	2F				
Finene		B) X 100	2.6%		S						
Finene MOISTI	JRE %={(A-B) /		0.40/	0 2000							
Finene MOISTU SIEVE	URE %={(A-B) / LOSS %={(C-D) 1/4") x 100		0.1%	0.3max							

734-1792 (10-2008)



1

815 Buxton Street | Winston Salem, NC | 27101 PH: 888.239.4539 | FAX: 336.747.1652 www.HanesGeo.com

## **TerraTex N06**

## **Nonwoven Geotextile**

TerraTex N06 is a nonwoven geotextile made up of polypropylene fibers. These fibers are needled to form a stable and durable network such that the fibers retain their relative position. It is non-biodegradable and resistant to most soil chemicals, acids and alkali with a pH range of 3 to 12. TerraTex N06 is manufactured to meet or exceed the following minimum average roll values:

	Minimum Average Roll Value	Minimum Average Roll Value
Test Method	English	Metric
ASTM D-5261	6 oz/yd <sup>2</sup>	203 g/m <sup>2</sup>
ASTM D-4632	160 lb	0.711 kN
ASTM D-4632	50%	50%
ASTM D-4533	65 lb	0.289 kN
ASTM D-6241	410 lb	1.82 kN
ASTM D-4833	90 lb	0.40 kN
ASTM D-3786	315 psi	2170 kPa
ASTM D-4355	70% @ 500 hr	70% @ 500 hr
ASTM D-4751	70 US Sieve	.212 mm
ASTM D-4491	1.6 sec-1	1.6 sec-1
ASTM D-4491	110 gal/min/ft <sup>2</sup>	4480 l/min/m <sup>2</sup>
	ASTM D-5261 ASTM D-4632 ASTM D-4632 ASTM D-4533 ASTM D-4533 ASTM D-6241 ASTM D-4833 ASTM D-4835 ASTM D-4355 ASTM D-4751 ASTM D-4491	Roll Value       Test Method     English       ASTM D-5261     6 oz/yd²       ASTM D-4632     160 lb       ASTM D-4632     50%       ASTM D-4533     65 lb       ASTM D-6241     410 lb       ASTM D-4833     90 lb       ASTM D-3786     315 psi       ASTM D-4751     70 US Sieve       ASTM D-4491     1.6 sec-1

5/2012

\*DISCLAIMER: Descriptions regarding the products described herein are based solely upon information provided by the manufacturer and are provided for informational purposes only. NOTHING CONTAINED HEREIN SHOULD BE CONSTRUED AS CREATING AN EXPRESSED OR IMPLIED WARRANTY, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS, EACH OF WHICH IS HEREBY DISCLAIMED. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The final determination as to the suitability of any product of *Hanes Geo Components* in any particular application rests solely with the user. *Hanes Geo Components* reserves the right to alter or modify its products and descriptions at any time without notice.



## Submittal Review

item:	Synthetic Turf Field Drainage	submittal no:	410-334614-0
project:	South Cooper Mountain High School	atlas project no.:	14016
date:	September 7, 2016		
by:	Nick Wilson		

Review of submittal is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of this work with that of all other trades; and the satisfactory performance of his work. A submittal review does not alter the Contract Documents or relieve the contractor of any obligation thereunder.

Number of pages this submittal:

**Review Status:** 

 $\boxtimes$  No exception taken

RejectedSubmittal incomplete

Action required:

- No re-submittal required
- Revise and re-submit
- Re-submittal not required if corrections are made as noted
  - ] Submit missing item(s) noted below
- Submit specified item(s) noted below

Comments:

Note that Flat Pipe is available with or without geotextile wrap. Specs call for NO WRAP. Note that some required pipe sizes are not highlighted. Note that 10d nails have been omitted from this submittal. Alternate geotextile fabric is equivalent to specified item and is acceptable.

12562*SW* Main *St.* Nº 210 *Tigard, OR* 97223

*telephone* 503.224.5238

*e-mail* firstname@ atlas-la.com

## SUBMITTAL TRANSMITTAL RECORD

#### South Cooper Mountain High School

			Submittal No.:			
	Hoffman Construc	ction Co.	Description:			
	Lic. # 28417 South Cooper Mountain High School 12500 SW 175 <sup>th</sup> Ave.		For: [ ] Review [ ] Infor	mation [ ] Co	ordination	
			Specification Reference:			
	Beaverton, OR 97007		Bid Package:			
			Supplier/Subcontractor:			
			Address:			
	1/0515		Phone:		Contact:	
HCC Job # 5	169515					
D	Routing	# Copies	Attention	Date Sent	Date Received	Date Due
ľ	Journa	# Copies	Attention	Date Sem	Date Received	Date Due

mittal #	Description	Action	Comments
		Review	

#### **HCC Comments:**

HOFFMAN C	ONSTRUCTION COMPANY				
This submittal has been reviewed for general conformance with the					
contract documents. Contra	ctor's review does not relieve the				
Vendor/Subcontractor of res	sponsibility for compliance with all				
	t, including completeness and accuracy of				
this submittal.					
08/27/2016	410-334614-0				
Date	Submittal #				
RobinsonA	RobinsonA				
Reviewed By					

#### **DESIGN OPERATIONS:**



### SUBMITTAL TRANSMITTAL

DATE:

August 19, 2016

#### ATTENTION:

Andrew Robinson Hoffman Construction Company 805 SW Broadway, Suite 2100 Portland, Oregon 97205

#### **PROJECT:**

South Cooper Mountain High School

I am sending you the following for approval and use on the above referenced project:

- 1. Pipe & Fittings HD Supply Waterworks 10 Pages.
- 2. Trench Backfill Baker Rock ¾" #4 Drain Rock 1 Page.
- 3. Geotextile @ Trench Sides & Bottom TerraTex N04.5 1 Page.

#### SUBMITTED BY:

Kelly Fitzpatrick

#### **CONTRACT SECTION:**

Section 33 46 14

#### **REMARKS:**



## MATERIAL SUBMITTAL PACKAGE FOR

## SO COOPER MT HS BALL FIELD

## CONTRACTOR

## BENCHMARK CONTRACTING

## CONTACT: KELLY FITZPATRICK (503)649-8762

PROVIDED BY:

HD SUPPLY WATERWORKS LAKE OSWEGO, OR (503) 620-9123 FAX: (503) 684-7213 GERALD EVANS ADS, Inc. Drainage Handbook

## ADS N-12<sup>®</sup> ST IB PIPE (per ASTM F2648) SPECIFICATION

#### Scope

This specification describes 4- through 60-inch (100 to 1500 mm) ADS N-12 ST IB pipe (per ASTM F2648) for use in gravity-flow land drainage applications.

#### **Pipe Requirements**

ADS N-12 ST IB pipe (per ASTM F2648) shall have a smooth interior and annular exterior corrugations.

- 4- through 60-inch (100 to 1500 mm) shall meet ASTM F2648.
- Manning's "n" value for use in design shall be 0.012.

#### **Joint Performance**

Pipe shall be joined using a bell & spigot joint meeting ASTM F2648. The joint shall be soil-tight and gaskets, when applicable, shall meet the requirements of ASTM F477. Gaskets shall be installed by the pipe manufacturer and covered with a removable wrap to ensure the gasket is free from debris. A joint lubricant supplied by the manufacturer shall be used on the gasket and bell during assembly.

#### Fittings

Fittings shall conform to ASTM F 2306. Bell and spigot connections shall utilize a spun-on or welded bell and valley or saddle gasket meeting the soil-tight joint performance requirements of ASTM F 2306.

#### **Material Properties**

Material for pipe production shall be an engineered compound of virgin and recycled high density polyethylene conforming with the minimum requirements of cell classification 424420C (ESCR Test Condition B) for 4- through 10-inch (100 to 250 mm) diameters, and 435420C (ESCR Test Condition B) for 12- through 60-inch (300 to 1500 mm) diameters, as defined and described in the latest version of ASTM D3350, except that carbon black content should not exceed 4%. The design engineer shall verify compatibility with overall system including structural, hydraulic, material and installation requirements for a given application.

#### Installation

Installation shall be in accordance with ASTM D2321 and ADS recommended installation guidelines, with the exception that minimum cover in trafficked areas for 4- through 48-inch (100 to 1200 mm) diameters shall be one foot. (0.3 m) and for 60-inch (1500 mm) diameters, the minimum cover shall be 2 ft. (0.6 m) in single run applications. Backfill for minimum cover situations shall consist of Class 1 (compacted), or Class 2 (minimum 90% SPD) material. Maximum fill heights depend on embedment material and compaction level; please refer to Technical Note 2.02. Contact your local ADS representative or visit our website at <u>www.ads-pipe.com</u> for a copy of the latest installation guidelines.

#### **Pipe Dimensions**

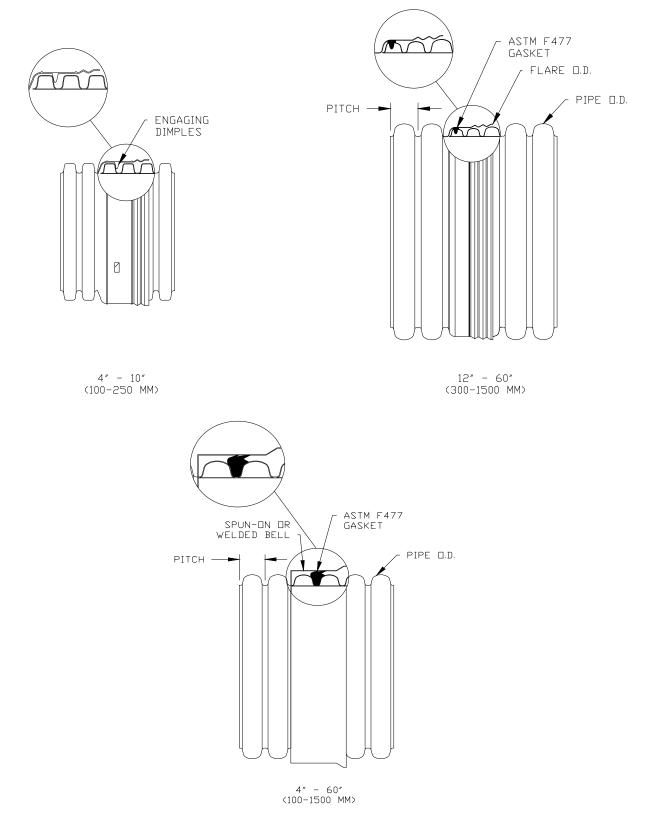
	Nominal Diameter, in (mm)												
Pipe I.D.	4	6	8	10	12	15	18	24	30	36	42	48	60
in (mm)	(100)	(150)	(200)	(250)	(300)	(375)	(450)	(600)	(750)	(900)	(1050)	(1200)	(1500)
Pipe O.D.**	4.8	6.9	9.1	11.4	14.5	18	22	28	36	42	48	54	67
in (mm)	(122)	(175)	(231)	(290)	(368)	(457)	(559)	(711)	(914)	(1067)	(1219)	(1372)	(1702)
Perforations All diameters available with or without perforations.													

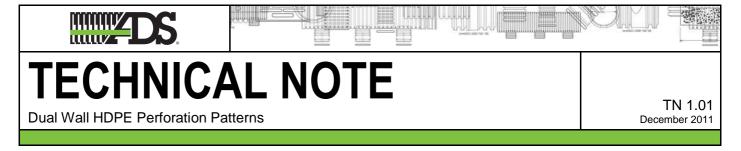
\*Check with sales representative for availability by region.

\*\*Pipe O.D. values are provided for reference purposes only, values stated for 12- through 60-inch are ± 1 inch. Contact a sales representative for exact values.

## N-12<sup>®</sup> ST IB (per ASTM F2648) JOINT SYSTEM

(Joint configuration & availability subject to change without notice. Product detail may differ slightly from actual product appearance.)





## Introduction

Perforated pipe plays an integral role in many applications of HDPE pipe. Generally, perforated pipe is used to accelerate the removal of subsurface water in soils or to allow storm water to percolate into the soil. Currently, two classifications of perforations are specified in the AASHTO material specifications for HDPE pipe: Class I, and Class II. Class I perforations are commonly used in combination storm/underdrain systems while Class II incorporates subsurface drainage and detention/retention systems. Both classes are explained in more detail in the AASHTO materials specifications (M294 and M252). AASHTO M252 covers pipe diameters 3- through 10-inch (75 - 250 mm) while M294 covers 12-inch through 60-inch (300 - 1500 mm).

## **Standard Perforation Patterns**

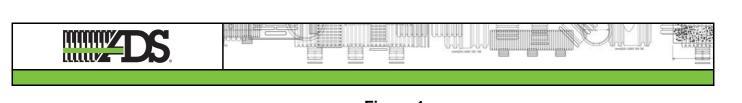
#### **AASHTO Class II Perforation**

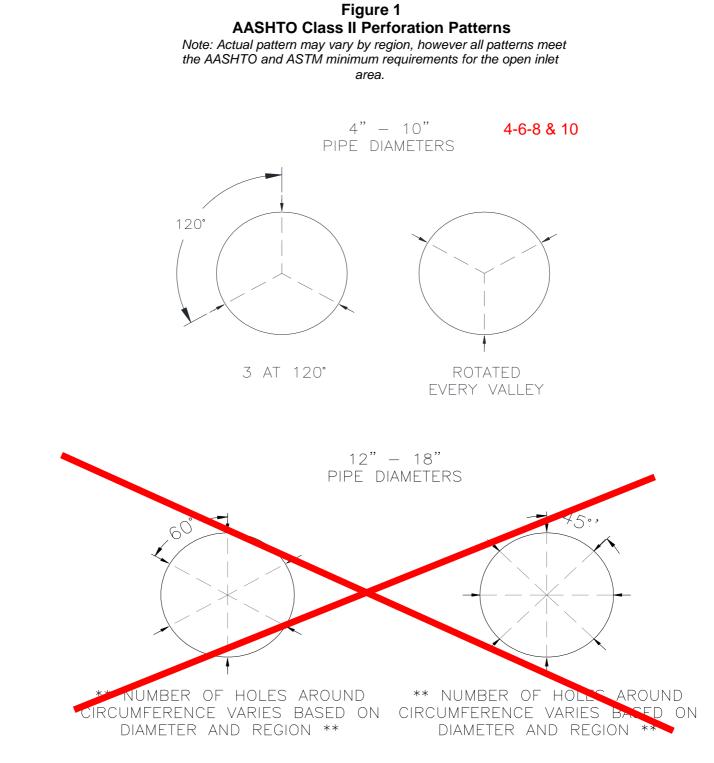
The following terminology for perforations is derived from the applicable AASHTO specification. Differences between the specifications are covered in the table below. Class II perforations shall be located in the outside valleys of the corrugations, be circular and/or slotted and evenly spaced around the circumference and length of the pipe. The perforations shall be located in the outside valleys of the corrugations. The water inlet area shall be no less than 0.945 in<sup>2</sup>/ft ( $20 \text{ cm}^2/\text{m}$ ) for pipe diameters 4- through 10-inch (100 - 250 mm),  $1.42 \text{ in}^2/\text{ft}$  ( $30 \text{ cm}^2/\text{m}$ ) for pipe diameters 12- through 18-inch (300 - 450 mm) and  $1.89 \text{ in}^2/\text{ft}$  ( $40 \text{ cm}^2/\text{m}$ ) for pipe diameters larger than and equal to 24 inches (600 mm). Table 1 below represents ADS standard perforation patterns for AASHTO Class II.

Nomi	nal I.D.	Perforation Type	Length or				Minii Inlet	
in	mm		in	mm	in	mm	in²/ft	cm²/m
4	100	Slot	<mark>0.875</mark>	<mark>22</mark>	0.125	<mark>3</mark>	1.0	21
<mark>6</mark>	<mark>150</mark>	Slot	<mark>0.875</mark>	<mark>22</mark>	<mark>0.125</mark>	<mark>3</mark>	<mark>1.0</mark>	<mark>21</mark>
8	<mark>200</mark>	Slot	<mark>1.18</mark>	<mark>30</mark>	<mark>0.125</mark>	<mark>3</mark>	<mark>1.0</mark>	<mark>21</mark>
<mark>10</mark>	<mark>250</mark>	Slot	<mark>1.18</mark>	<mark>30</mark>	<mark>0.125</mark>	<mark>3</mark>	<mark>1.0</mark>	<mark>21</mark>
12	300	Circular	0.313	8	-	-	1.5	32
15	375	Circular	0.313	8	-	-	1.5	32
18	450	Circular	0.313	8	-	-	1.5	32
24	600	Circular	0.313	8	-	-	2.0	42
30	750	Circular	0.375	9.5	-	-	2.0	42
36	900	Circular	0.375	9.5	-	-	2.0	42
42	1050	Circular	0.375	9.5	-	-	2.0	42
48	1200	Circular	0.375	9.5	-	-	2.0	42
54	1350	Circular	0.375	9.5	-	-	2.0	42
60	1500	Circular	0.375	9.5	-	-	2.0	42

4640 TRUEMAN BLVD. HILLIARD, OH 43026 (800) 821-6710 www.ads-pipe.com

1







## AdvanEDGE<sup>®</sup> Pipe

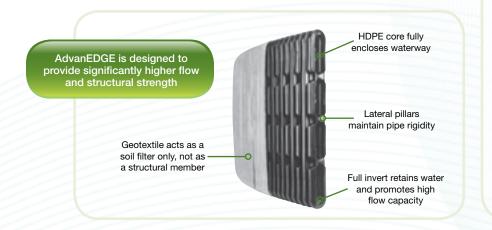
#### The advanced panel pipe for rapid-response drainage

ADS AdvanEDGE panel pipe provides the dimensional stability and field-proven structural strength for quick, effective subsurface drainage. It consists of a perforated panel-shaped plastic core wrapped with geotextile for soil filtration. The distinguishing performance feature of panel pipe is its ability to rapidly collect and remove water. Compared to 4" round pipe with an equal length of 12", panel pipe has twice the soil contact area and will drain a given quantity of water in about 60% of the time. Its slim 1.5" profile permits a narrow trench and faster installation.

AdvanEDGE is truly a pipe. It's not round, of course, but its panel-shaped core fully encloses the waterway. Lateral pillars maintain the core opening, resulting in a series of oval-shaped channels providing superior strength and relatively few projections into the waterway. The design of the invert permits significantly higher flow velocity at lower head.

#### An effective solution for a wide range of applications:

- Highway edge drains
- Athletic turf drainage
- Building foundations and retaining walls
- Waste management curtain drains





#### Features:

- 12" and 18" (300 and 450 mm) oblong dimensions available
- 100 ft and 500 ft lengths available
- Fast installation times
- Manufactured from high density polyethylene resin

#### **Benefits:**

- Invert design permits significantly higher flow velocity at lower head
- Structural superiority confirmed by state field performance tests of edge drains
- Higher flow capacity compared to various geocomposites
- Slim-line design allows for narrow trench installation, easily cut in with high-speed trenching equipment
- Long-term durability of HDPE

The Most Advanced Name in Drainage Systems®



## **ADS AdvanEDGE Pipe Specifications**

#### Scope

This specification describes 12" and 18" (300 and 450 mm) ADS AdvanEDGE oblong corrugated pipe for use in subsurface drainage applications.

#### **Pipe Requirements**

ADS AdvanEDGE shall meet ASTM D7001 and have outside dimensions of 1.5" wide by 13" tall or 1.5" wide by 18" tall. AdvanEDGE shall have internal bracing adjoining each long wall to prevent crushing under typical loading. AdvanEDGE shall be made available with or without external geotextile wrap.

#### **Material Properties**

All pipe and fittings shall be made of polyethylene with a minimum cell classification of 424420C as defined and described in ASTM D3350.

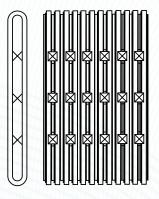
AdvanEl Perforat		
Nominal Pipe Size, in.	12	18
(mm)	(300)	(450)
Slot Length (Avg), in.	1.125	1.125
(mm)	(29)	(29)
Slot Width (Avg), in.	0.125	0.15
(mm)	(3.2)	(4)
Water Inlet Area (Approx), in²/ft	15	20

All Values provided are for reference purposes only.

#### Use 100d nails per specs and secure every 4'

#### AdvanEDGE Geotextile Wrap

Estado Das southes	<b>T</b>	Misimum Assures Delli Values
Fabric Properties	Test Method	Minimum Average Roll Values
Grab Tensile Strength (lbs.) (weakest principle direction)	ASTM D4632	120
Grab Elongation (%) (weakest principle direction)	ASTM D4633	60
Trapezoidal Tear (lbs.) (weakest principle direction)	ASTM D4533	40
Puncture (Ibs.)	ASTM D3786	30
Permittivity	ASTM D4491	0.7
AOS (U.S. Sieve Size)	ASTM D4751	60
U.V. Resistance	ASTM D4355	70



ADS "Terms and Conditions of Sale" are available on the ADS website, www.ads-pipe.com

Advanced Drainage Systems, the Green Stripe and AdvanEDGE are registered trademarks of Advanced Drainage Systems, Inc. (© 2006 Advanced Drainage Systems, Inc. (2713)

10598/0407



Advanced Drainage Systems, Inc. 4640 Trueman Blvd., Hilliard, OH 43026 1-800-821-6710 www.ads-pipe.com



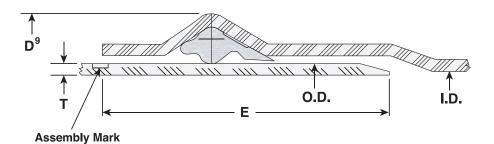


## **GRAVITY SEWER**

#### SUBMITTAL AND DATA SHEET

PIPE SIZE (IN)	AVERAGE O.D. (IN)	NOM. I.D. (IN)	MIN. T. (IN)	MIN. E (IN)	APPROX. D (IN)	APPROX. WEIGHT (LBS/FT)		
SDR 35 (PS46) ASTM D3034								
<mark>4</mark>	<mark>4.215</mark>	<mark>3.975</mark>	<mark>0.120</mark>	<mark>3.50</mark>	4.695	1.05		
6	6.275	5.915	0.180	4.25	6.995	2.36		
8	8.400	7.920	0.240	4.75	9.360	4.24		
10	10.500	9.900	0.300	6.00	11.700	6.64		
12	12.500	11.780	0.360	6.25	13.940	9.50		
15	15.300	14.426	0.437	7.25	17.048	14.19		
	· · ·	SDF	R 26 (PS115) A	STM D3034	•			
4	4.215	3.891	0.162	3.50	4.863	1.40		
6	6.275	5.793	0.241	4.25	7.239	3.1		
8	8.400	7.754	0.323	4.75	9.692	5.63		
10	10.500	9.692	0.404	6.00	12.116	8.84		
12	120	11.538	0.481	6.25	14.424	12.56		
15	15.300	14.124	0.588	7.25	17.652	18.90		
			PS46, ASTM	F679				
18	18.701	11.629	0.499	8.00	20.845	21.43		
21	22.047	20.785	0.588	9.50	24.575	29.88		
24	24.803	23.381	0.661	0.0	27.647	38.96		
27	27.953	26.351	745	10.10	31.157	49.47		
30 CIOD	32.000	30.194	0.85	16.75	35.612	64.18		
36 CIOD	38.300	36.042	1 J21	19.02	42.816	93.00		
42 CIOD	44.500	41.948	1.187	2143	49.604	_		
48 CIOD	50.800	47.888	1.355	24.78	56.624	_		
	· · · ·		PS115, ASTN	I F679				
18	18.701	17.261	0.671	8.00	2 581	28.49		
21	22.047	20.349	0.791	9.50	25.445	_		
24	24,8,3	22.891	0.889	9.60	28.627	_		
27	27.953	25.799	1.002	10.10	32.261	-		
30 CIOD	32.000	29.070	1.148	16.75	36.348	_		
36 CIOP	38.300	35.464	1.373	19.02	45.438			
42 JOD	44.500	41.072	1.596	22.43	51.356	_		
48 CIOD	50.800	46.886	1.822	24.78	58.628	_		





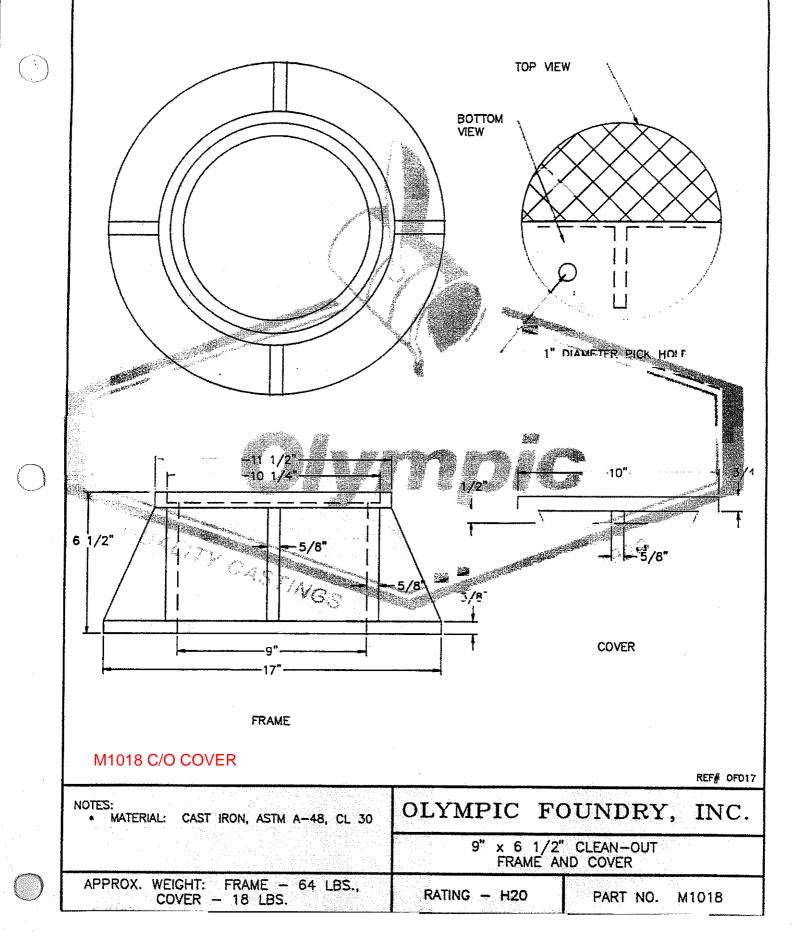
I.D. : Inside Dameter

- O.D. : Outside Diameter
- T. : Wall Thickness
- D<sup>9</sup> : Bell Outside Diameter
- E : Distance between Assembly Mark to the end of spigot.

Product Standard:

Pipe Compound: Gasket: Integral Bell Joint: Pipe Stiffness: Pipe Length: Installation: ASTM 3034 (4"-15") ASTM F679 (18"-48") ASTM D1784 Cells Class 12454 or 12364 ASTM F477 ASTM D3212 ASTM D2412 F/∆Y = 46 PSI or 115 PSI 14 **GEO** fine laying length ASTM D 2321 JM Eagle<sup>™</sup> Installation Guide





.



FIEL	D W	ORKSI	HEET	FOR	AGG	REGATE

E	English	(E)	or	Metric	(M)
	-	• •			

	AME (SECTION)										TRACT NU	NREK
	OR OR SUPPLIER				PROJECT					BID	TEM NUMB	ER
SOURCE NA		er Rock Re	sources		Benchmark Contracting				100			
SOURCE IN		armington C	Quarry		SOURCE NUMBER MATERIAL SIZE 34-080-1 3/4"-#4							
TEST NO.	DATE	TIME	SAMPLED A	τ.	1			то	BE USED IN			
QC	3/23/20	016 7:25	5	Fi	nal Belt					-		
SIEVE	SPECS.		SI	EVE ANALY	SIS A	ASHT	O T27/1	1			F	М
SIZE	LIMITS	MASS 1	MASS 2	MASS 3	MASS	54	TOTAL	MASS	% RET	% PASS	CUMU % RET	TAINED
.49.93					1		0.0	)	0.0	100		
	AMPARA						0.0	)	0.0	100	1	
	States and						0.0	)	0.0	100		
							0.0		0.0	100	1	6-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0
	CONTRACT.				1		0.0		0.0	100		
1		0.0	0.0				0.0		0.0	100	1	
3/4		75.8	41.4				117		2.1	98	1	
1/2		880.4	1389.3		<u> </u>		2269		40.1	58	1	
3/8		781.9	879.8			+	1661		29.4	28	1	
1/4	A MARKET	760.5	648.1				1408		24.9	4		
4	A STREET, STRE	52.8	45.2				98.		1.7	2		it is a start of the second start of the secon
8		0.0	15.6				15.		0.3	2		
40	ALL CALLS	0.0	6.3				6.3		0.1	1	<del> </del>	
200		0.0	13.8				13.		0.2	1.2	<u> </u>	
PAN		0.0	21.0			+	21.		0.4	1.2		
	NITIAL DRY		5653.4	D =MASS AF	TER SIEV	/ING:	5611		0.4	I	<u> </u>	
SIEVE	SPECS.	FRACT	TURE % ME	THOD 2 TP	-61	FLON	GATED PIE	CES	J	SE T	176	
		FRAC	QUESTIONABLE	NON FRAC	INDIVIDUAL	TES				1	T	T
SIZE	LIMITS	MASS (F)	MASS (Q)	MASS (N)	FRAC %	MAS	S MAS	S	1	2	3	Sample
												Clay
										[	ļ	Sand
						<b>_</b>						S.E.
						ļ			AVG.		SPEC	Contraction of the local division of the loc
						ļ			PAN TA			224.8
						ļ			WET MA	SS & PAN		991.4
	Second and a second					ļ			DRY MAS			878.2
									AFTER WASH	DRY MASS &	PAN 0	838.0
C = AFTER \	WASH DRY MASS &	PAN - PAN	B = DRY MASS & P	AN - PAN	ille.	DRY	X	NET	WAQ	TC AASHTO	T-27/T11	-
A = WET MA	SS & PAN - PAN		RESULT	SPEC	X Rou	nd	Squar	e	Rectangle	1	2"	Size
Fracture	e % Method	1 TP-61			R				1 1			
Wood V	Vaste	TM225			E		ZEL	52	77			
Cleanne	essValue	TM 227			ME	34	x		ELL	_ c	$\supset$	
Flat & E	longated	TM 229			A	_						
Finenes	s Modulus	T 27/T11			R K	-P	EL	っこ	1			
MOISTUR	RE %={(A-B) / B	} X 100	2.0%		ŝΣ	20	-21	5				
	DSS %={(C-D) /		0.0%	0.0-0.3				$\sim$	•			
(Nº10 / 1/												
X QUA	LITY CONTROL		FICATION		ENT ASSU	RANCE	the second se					
CERT	IFIED TECHNICAN (	PLEASE PRINT) AN	D CARD NUMBER	COMPANY	AME		S	IGNATU	RE			DATE
	Dave F	Berovic #431	24		BRE	z			Da	ve Bero	vic 3/2	3/201

 $\setminus \setminus$ 



815 Buxton Street | Winston Salem, NC | 27101 PH: 888.239.4539 | FAX: 336.747.1652 www.HanesGeo.com

Specs call for Mirafi 140N, please confirm this is acceptable. → TerraTex® N04.5

TerraTex<sup>®</sup> N04.5 is a nonwoven geotextile made up of polypropylene fibers. These fibers are needled to form a stable and durable network such that the fibers retain their relative position. It is non-biodegradable and resistant to most soil chemicals, acids, and alkali with a pH range of 3 to 12. TerraTex<sup>®</sup> N04.5 is manufactured to meet or exceed the following minimum average roll values:

Unless noted otherwise, all values are minimum average roll values (MARV).

PROPERTY	TEST METHOD	ENGLISH	METRIC
Weight (Typical) <sup>1</sup>	ASTM D5261	<b>4.2</b> oz/yd <sup>2</sup>	<b>142</b> g/m <sup>2</sup>
Grab Tensile	ASTM D4632	120 lbs	0.533 kN
Grab Elongation	ASTM D4632	50 %	<b>50</b> %
Trapezoid Tear	ASTM D4533	50 lbs	0.222 kN
CBR Puncture	ASTM D6241	340 lbs	1.51 kN
Permittivity <sup>1</sup>	ASTM D4491	1.70 sec <sup>-1</sup>	1.70 sec <sup>-1</sup>
Water Flow Rate <sup>1</sup>	ASTM D4491	120 gpm/ft <sup>2</sup>	<b>4,885</b> Lpm/m <sup>2</sup>
AOS <sup>1,2</sup>	ASTM D4751	70 US Std. Sleve	0.212 mm
UV Resistance	ASTM D4355	<b>70</b> % @ 500 hrs	70 % @ 500 hrs

1 At the time of manufacturing. Handling, storage, and shipping may change these properties.

2 Value represents maximum average roll value.

DISCLAIMER: Descriptions regarding the products described herein are based solely upon information provided by the manufacturer and are provided for informational purposes only. NOTHING CONTAINED HEREIN SHOULD BE CONSTRUED AS CREATING AN EXPRESSED OR IMPLIED WARRANTY, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS, EACH OF WHICH IS HEREBY DISCLAIMED. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The final determination as to the suitability of any product of Hanes Geo Components in any particular application rests solely with the user. Hanes Geo Components reserves the right to alter or modify its products and descriptions at any time without notice.

7/9/2015

## Submittal Review



item:	Synthetic Turf Shop Drawings	submittal no:	490-321823.29-1
project:	South Cooper Mountain High School	atlas project no.:	14016
date:	November 3, 2016		
by:	Nick Wilson		

Review of submittal is only for general conformance with the design concept of the project and general compliance with the information given in the Contract Documents. Any action shown is subject to the requirements of the plans and specifications. Contractor is responsible for dimensions which shall be confirmed and correlated at the job site; fabrication processes and techniques of construction; coordination of this work with that of all other trades; and the satisfactory performance of his work. A submittal review does not alter the Contract Documents or relieve the contractor of any obligation thereunder.

Number of pages this submittal:

**Review Status:** 

 $\boxtimes$  No exception taken

Note comments below

Action required:

No re-submittal required

Revise and re-submit

Re-submittal not required if corrections are made as noted

- Submit missing item(s) noted below
- Submit specified item(s) noted below

Comments:

12562 SW Main St. № 210 Tigard, OR 97223

*telephone* 503.224.5238

*e-mail* firstname@ atlas-la.com

RejectedSubmittal incomplete

## SUBMITTAL TRANSMITTAL RECORD

#### South Cooper Mountain High School

Lic. # South C 12500 S	nan Construction Co. 28417 Cooper Mountain High School W 175 <sup>th</sup> Ave. on, OR 97007	Submittal No.:     Description:     For:   ] Review [] Inf     Specification Reference:     Bid Package:     Supplier/Subcontractor:     Address:     Phone:		ordination				
HCC Job # 516951				Contact: Date Received	Date Due			
Routing	# Copies	Attention	Attention Date Sent					

Submittal #	Description	Action	Comments

Subilitital #	Description	Action	Comments
		Review	
R = Reproducib	P = Print $B = Brochure$		

#### **HCC Comments:**

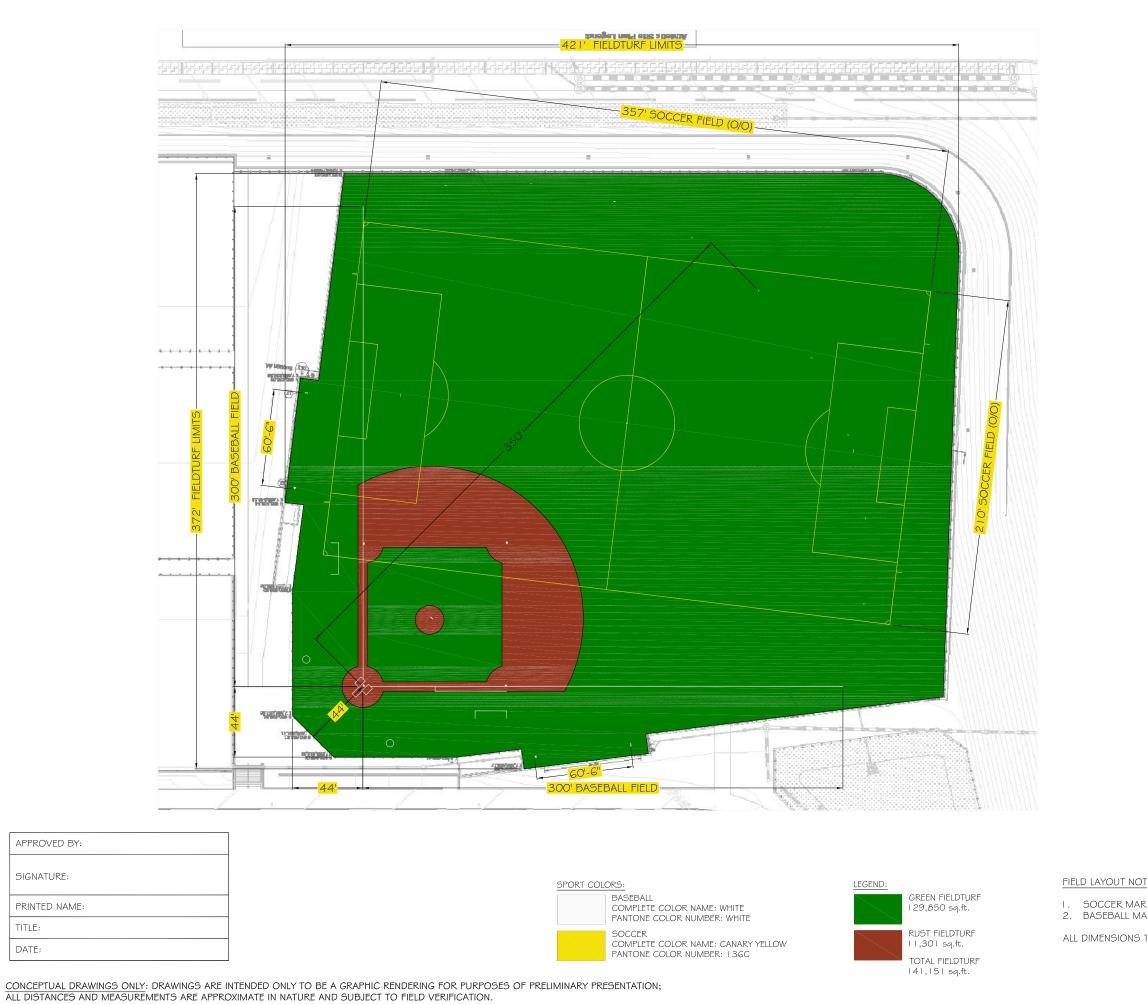
HOFFMAN CO	ONSTRUCTION COMPANY
This submittal has been revie	wed for general conformance with the
contract documents. Contrac	tor's review does not relieve the
Vendor/Subcontractor of resp	oonsibility for compliance with all
requirements of the contract,	including completeness and accuracy of
this submittal.	, , , , , , , , , , , , , , , , , , ,
10/26/2016	490-321823.29-1
Date	Submittal #
RobinsonA	
Reviewed By	-

#### **DESIGN OPERATIONS:**

# SOUTH COOPER MOUNTAIN HIGH SCHOOL **BASEBALL FIELD BEAVERTON**, OR



FIELD LAYOUT SUBMITTALS PREPARED BY: FIELDTURF DRAWN BY: DEBORAH HENDERSON DATE: SEPTEMBER 12.2016



NFHS STANDARDS
----------------

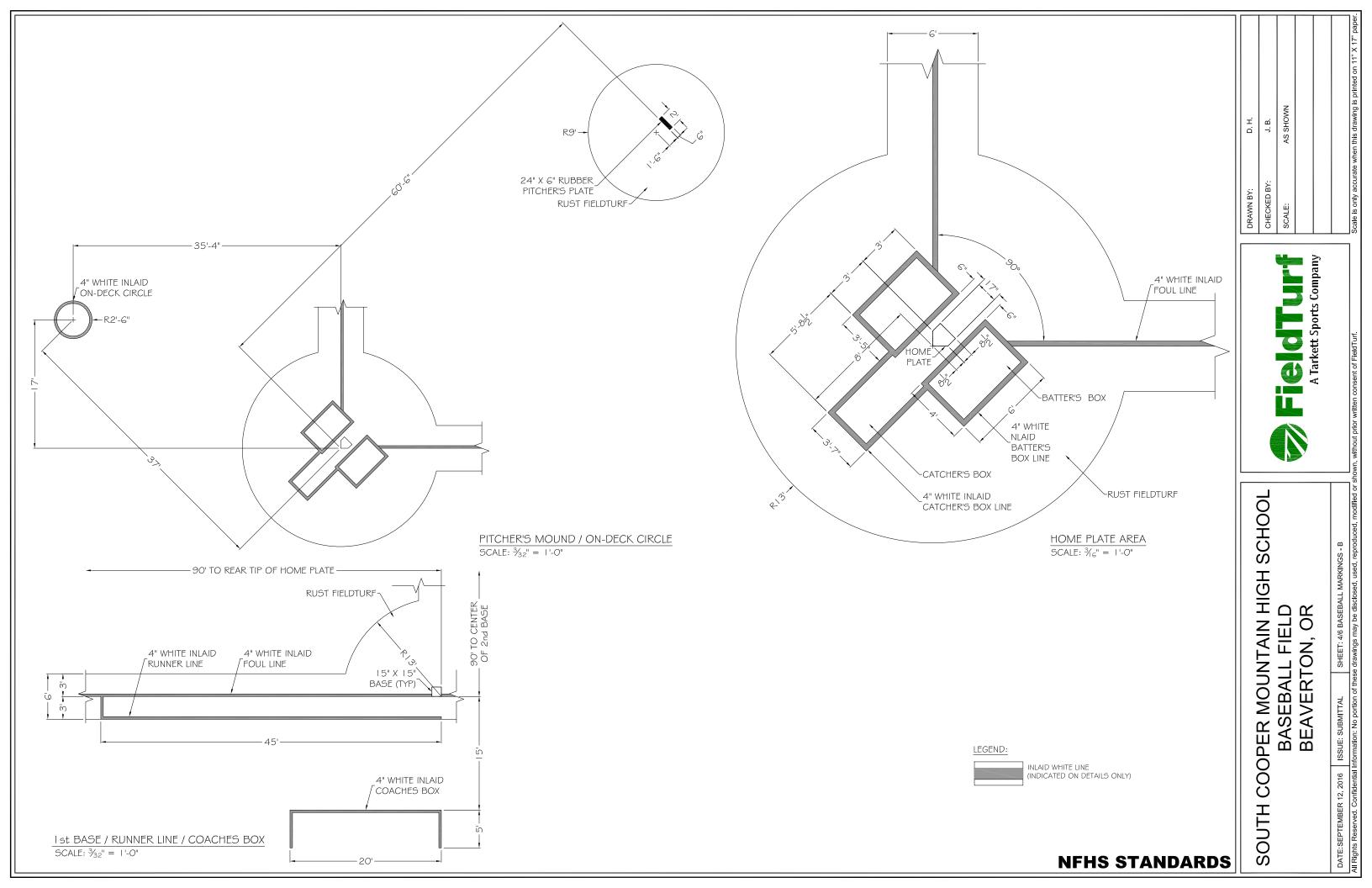
ALL DIMENSIONS TO BE VERIFIED BEFORE ANY CONSTRUCTION BEGINS.

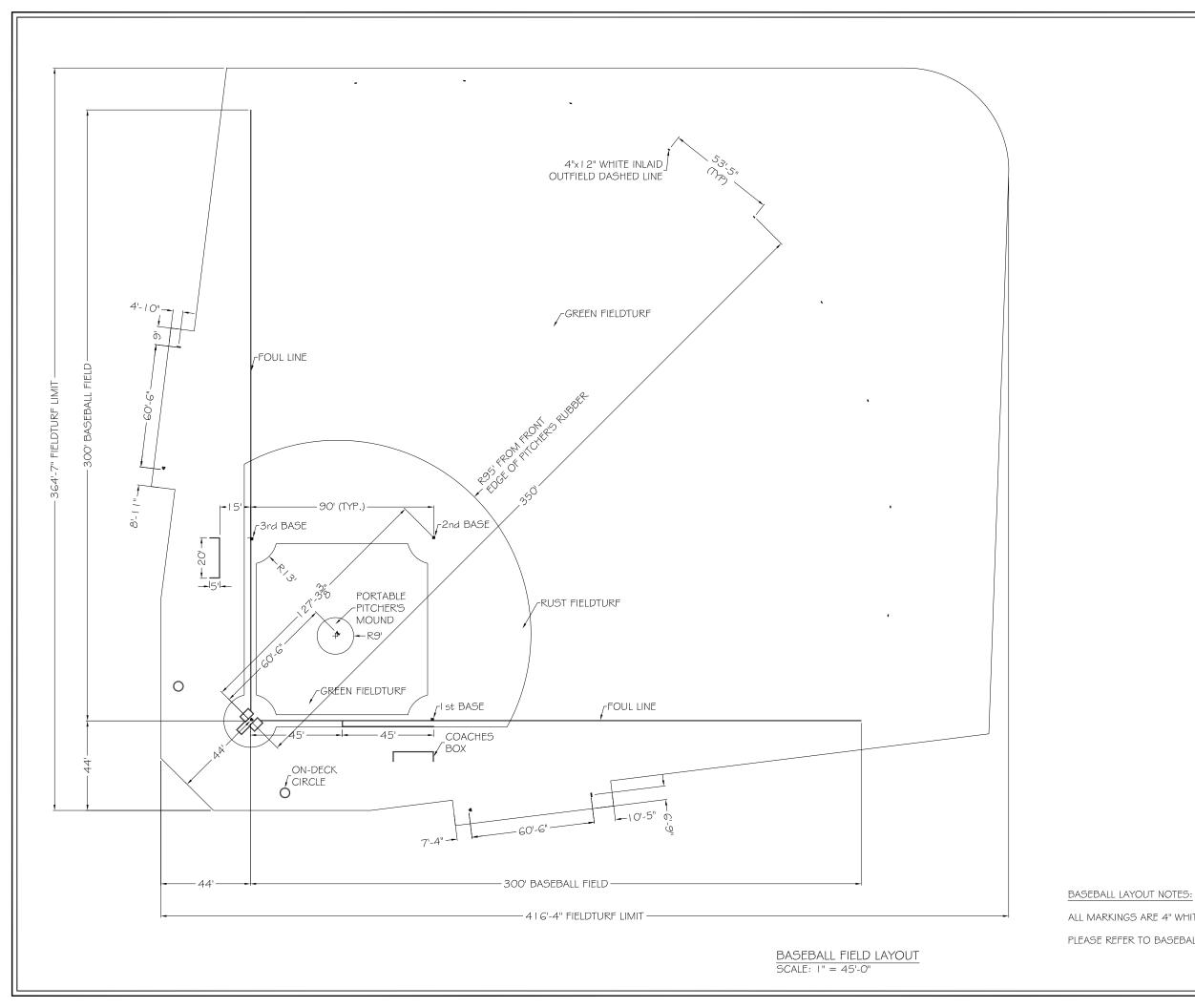
SOCCER MARKINGS ARE 4" YELLOW NFHS STANDARDS.
BASEBALL MARKINGS ARE 4" WHITE NFHS STANDARDS.

FIELD LAYOUT NOTES (sports are in order of dominance):

					7
				DRAWN BY	M. K. / D. H.
SOUTH COC	PER MOU	SOUTH COOPER MOUNTAIN HIGH SCHOOL		CHECKED BY:	J. B.
	<b>BASEBALL FIELD</b>	L FIELD		SCALE: 1"=60'	TOTAL PERIMETER: 1499 ft.
	<b>BEAVERTON</b> , OR	ron , or		TOTAL FIELD AREA: 141,151 sq. ft.	141,151 sq. ft.
				TURF MANUF'D:	155,340 sq.ft.
DATE: OCTOBER 24, 2016 ISSUE: SUBMITTAL	ISSUE: SUBMITTAL	SHEET: 1/6 PRESENTATION		EXTRA TURF:	10.1 %
All Rights Reserved. Confidential Ini	formation. No portion of thes	Il Rights Reserved. Confidential Information: No portion of these drawings may be disclosed, used, reproduced, modified or shown, without prior written consent of FieldTurf.	own, without prior written consent of FieldTurf.	Scale is only accurate wh	Scale is only accurate when this drawing is printed on 11" X 17" paper





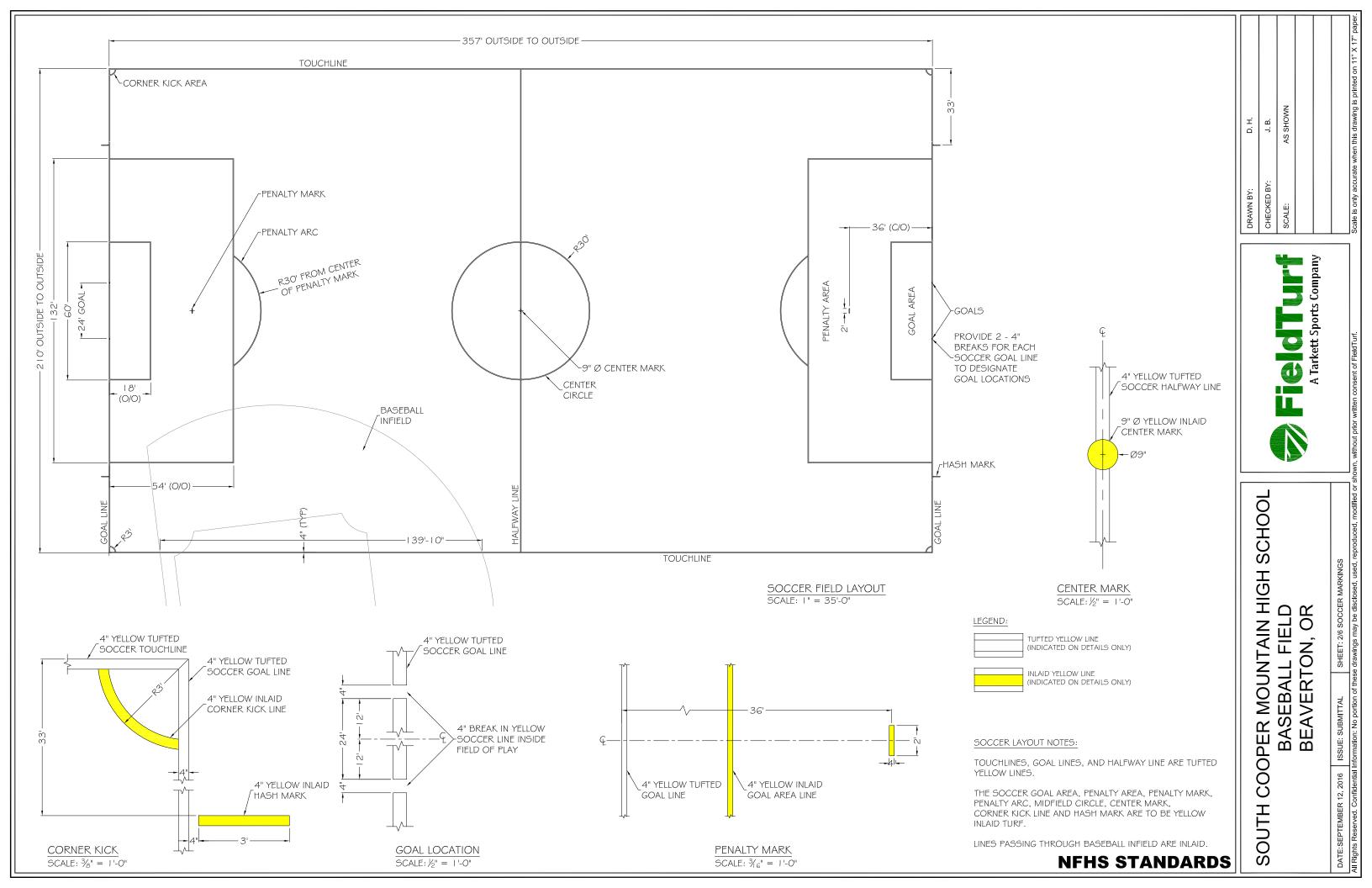


				DRAWN BY:	D.H.
		SOUTH COOPER MOUNTAIN HIGH SCHOOL		CHECKED BY:	J. B.
	<b>BASEBALL FIELD</b>	L FIELD		SCALE:	AS SHOWN
	<b>BEAVERTON, OR</b>	TON, OR	A Tarkett Sports Company		
DATE: OCTOBER 24, 2016	ISSUE: SUBMITTAL	SHEET: 3/6 BASEBALL MARKINGS - A			
All Rights Reserved. Confidential Ir	nformation: No portion of thes	Il Rights Reserved. Confidential Information: No portion of these drawings may be disclosed, used, reproduced, modified or shown, without prior written consent of FieldTurf.	town, without prior written consent of FieldTurf.	Scale is only accurate w	Scale is only accurate when this drawing is printed on 11" X 17" paper.

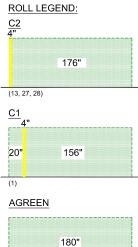
ALL MARKINGS ARE 4" WHITE INLAID TURF.

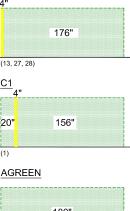
PLEASE REFER TO BASEBALL MARKINGS-B FOR DETAILS.

## **NFHS STANDARDS**



									- 42	' F	IELUI		-														
	-	4										-357	7' SC	CCE	r fie	LD (C	)/0) -										
																	3	4	18	<i>7777.</i> О" х	 127'		RFF	N			
									Ţ	,33		////	////	7777	180	)" x 2	249'	AGF								KA I	2
			31		1.18	7777 80" x	182	' AG	REE	EN .					32		18	80">	(182	2' AC	RE	EN				Ŧ	
			29		18	80" x	182	' AG	REE	IN				+	30		18	80">	(182	2' AC	RE	EN					
			25			180	)" x ´	182'	C4		,				26			18	0" x	182'	C4						
35	5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	37	3
				EN		EEN	EEN		Z	z																	
	Ī		7	AGREEN	AGREEN	149' AGREEN	AGREEN	AGREEN	x 160' AGREEN	180" × 171' AGREEN	Z III	7	7		7	7	7	7	7	7	7	7	7	7		z	
AGF	$\overline{\mathbf{x}}$	5	NEE/	59' A	152' /	149'	149'	153' /	60' A	1' AG	AGRI	SEEN	SEE	23	REP	SEEN	AGREEN	AGREEN	AGREEN	AGREEN	AGREEN	AGREEN	AGREEN	AGREEN	e S	REEI	-
040	1	212' (	212' AGREEN	80" x 159'	80" ×	180" x	180" x	180" x	" × 1	x 17	187',	' AGI	212' AGREEN	212' (	' AGI	' AGI	' AGI	' AGI			' AGI	' AGI	' AGI	' AGI	x 212' C3	o' AG	l
REEN 180" × 242' AGREEN		180" x 212' C1	x 212	18(	18	#	18	18	180"	180"	80" × 187' AGREEN	(211	< 212	180" x 212' C2	x 212' AGREEN	< 212	< 212'	< 212'	< 212'	x 212'	x 212'	x 212'	x 212'	< 212'	180" × 2	x 316	(
180" x 81' AGREEN	-	18	80" >								<del>2</del>	180" x 211' AGREEN	180" × :	18	180" >	180" × 212' AGREEN	180" × :	180" x :	180" × :	180" >	80" >	180" >	80" >	180" x :	18	180" x 316' AGREEN	
x 81'				11	-11		4.1.4.4	777				~															
80"					1				<i>\</i>																		
8×081 36								7-57-	r77		$\square$																
ا			E.	10	 30" X	. 86'	AGF	REE	N																		
27 180	)" X	43'	C2	491	80")	<mark>ا</mark> 86 ک	AG	REE	N					28		·	1	80"	x 19	9' C2	2	1	J	L	1L		Ť
F														39			180	" x 1	95' /	٩GR	EEN						
AGREEN			E	47.	180"	X 86 X 8		RE	EN			5	;  	40			180	" x 1	95' /	٩GR	EEN						
		AGREEN	AGREEN	40	180'	Х 8 " Х 8	6' A	GRE	EN	#		7	/	41						GR	EEN		Th	111	111		21
	180" × 103 /	x 115'	143		180	·· X (		20'	AGR	EEN		- AL	42			80"			111		111						
Ē	0	180" × `	180"X	1/2 54	¥ 	180	·· X I	07	۸GR	EEN		- de	43 44	זי 	SO X	107	-AG										

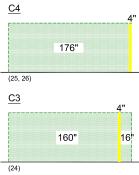








5. LINE5. RT ROLLS.	4" 4" 16"		FTHD-57
		DRAWN BY:	M. K. / D. H.
SOUTH COOPER MOUNTAIN HIGH SCHOOL		CHECKED BY:	J. B.
BASEBALL FIELD		SCALE:	1"=60'
BEAVERTON, OR		FIELD AREA:	129,850 sq. ft.
	A larkett sports company	TURF MANUF'D:	141,660 sq.ft.
DATE:SEPTEMBER 12, 2016   ISSUE: SUBMITTAL   SHEET: 5/6 ROLL LAYOUT		EXTRA TURF:	9.1 %
Il Rights Reserved. Confidential Information. No portion of these drawings may be disclosed, used, reproduced, modified or shown, without prior written consent of FieldTurf.	n, without prior written consent of FieldTurf.	Scale is only accurate w	Scale is only accurate when this drawing is printed on 11" X 17" paper.



INSTALLATIONS NOTES:

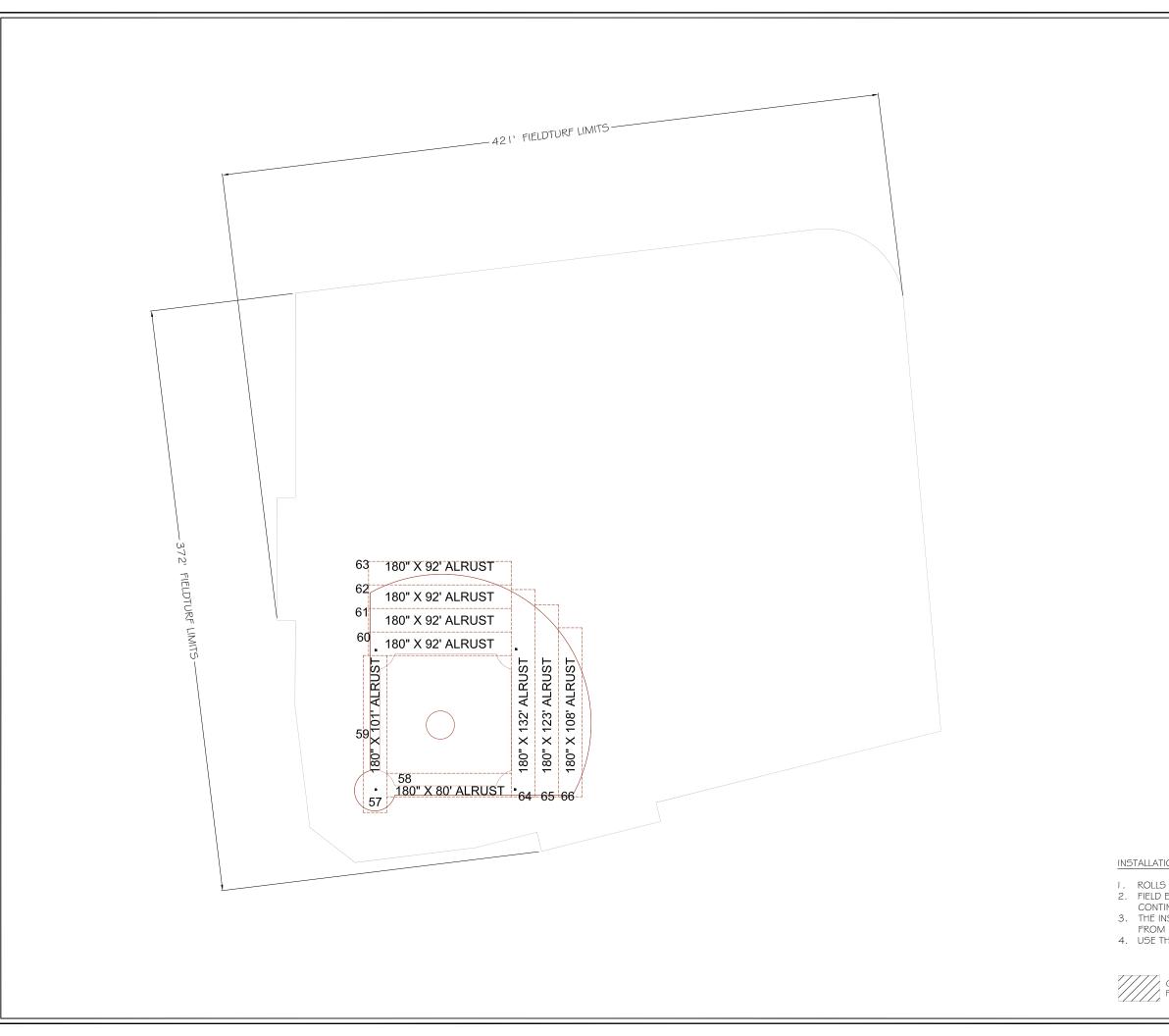
ROLLS (SEAMS) ARE SHOWN IN DASHED LINES.
FIELD EDGE AND SPORTS LINES ARE SHOWN IN CONTINUOUS LINES.

ROLLS #1 # #24 HAVE THE SOCCER GOAL LINES.
ROLLS #26 TO #28 HAVE THE SOCCER TOUCHLINES
THE INSTALLATION OF THE ROLLS SHOULD START FROM THE HALFWAY LINE (ROLL #1).
USE THE LEGEND FOR PLACEMENT OF EXCESS ROLLS

CUT-OFFS FROM ROLLS



PLACEMENT OF CUT-OFFS

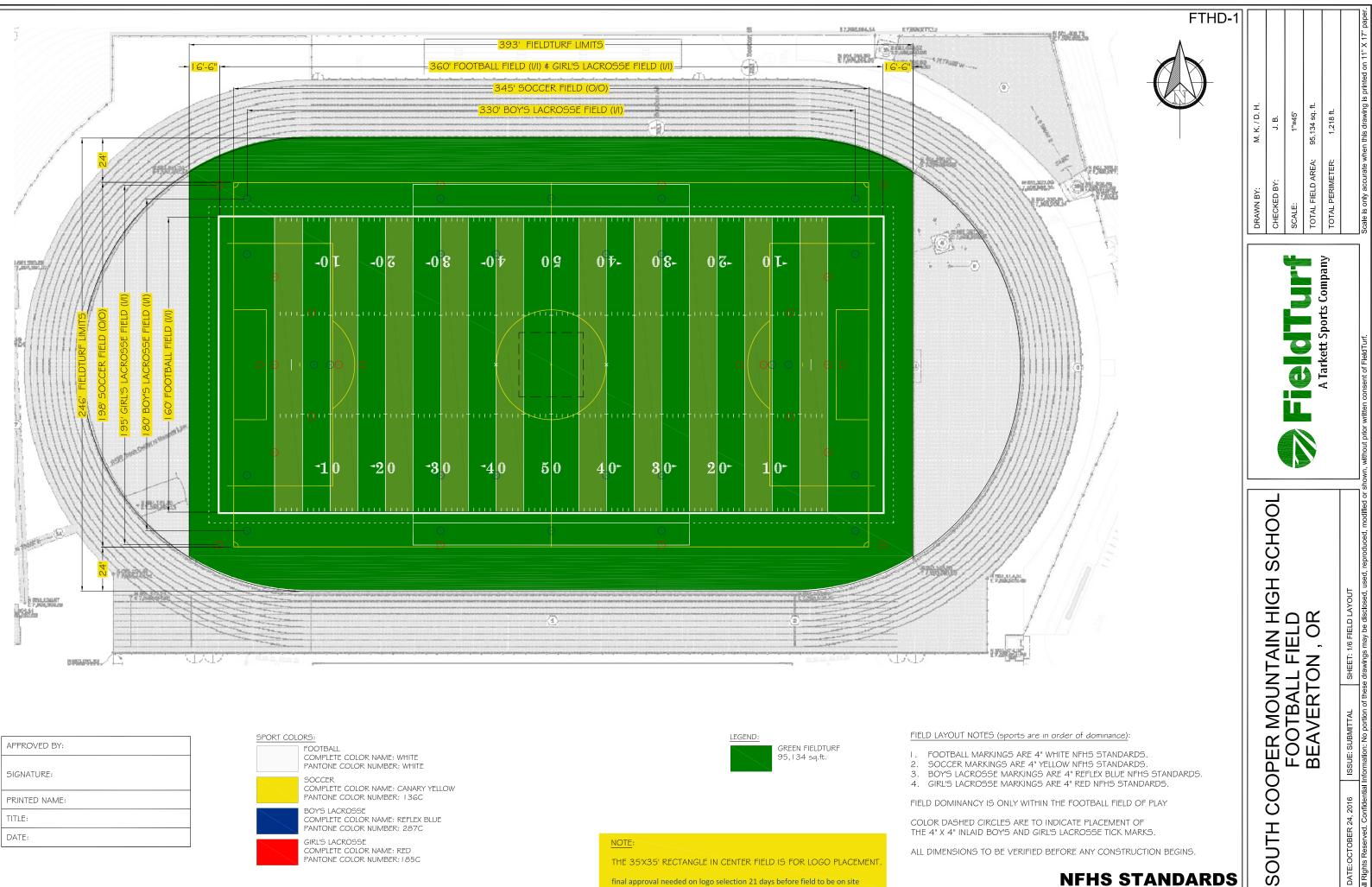


FTHD-57							X 17" paper.
	M. K. / D. H.	J. B.	1"=60'	11,301 sq. ft.	13,680 sq.ft.	21.1 %	Scale is only accurate when this drawing is printed on 11" X 17" paper.
	DRAWN BY:	CHECKED BY:	SCALE:	FIELD AREA:	TURF MANUF'D:	EXTRA TURF:	Scale is only accurate w
ALRUST 180" (57-66)					A LARKELL SPORTS COMPANY		hown, without prior written consent of FieldTurf.
FIONS NOTES: 5 (SEAMS) ARE SHOWN IN DASHED LINES.		SOUTH COOPER MOUNTAIN HIGH SCHOOL	BASEBALL FIELD	BEAVERTON, OR		ISSUE: SUBMITTAL SHEET: 6/6 ROLL LAYOUT	All Rights Reserved. Confidential Information: No portion of these drawings may be disclosed, used, reproduced, modified or shown, without prior written consent of FieldTurf.
CUT-OFFS FROM ROLLS		SOUTH COO				DATE:SEPTEMBER 12, 2016	Rights Reserved. Confidential Info

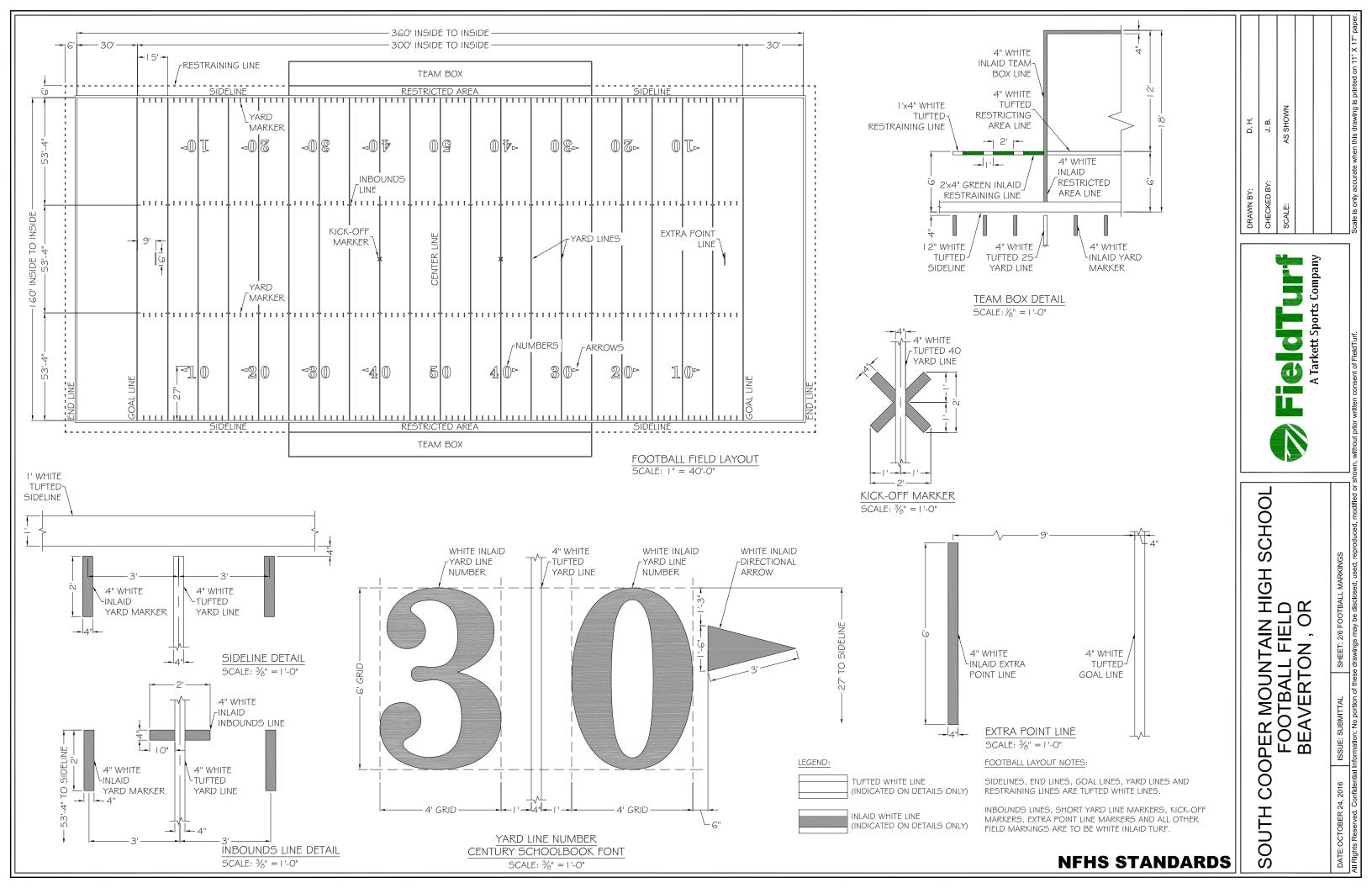
# SOUTH COOPER MOUNTAIN HIGH SCHOOL FOOTBALL FIELD **BEAVERTON**, OR

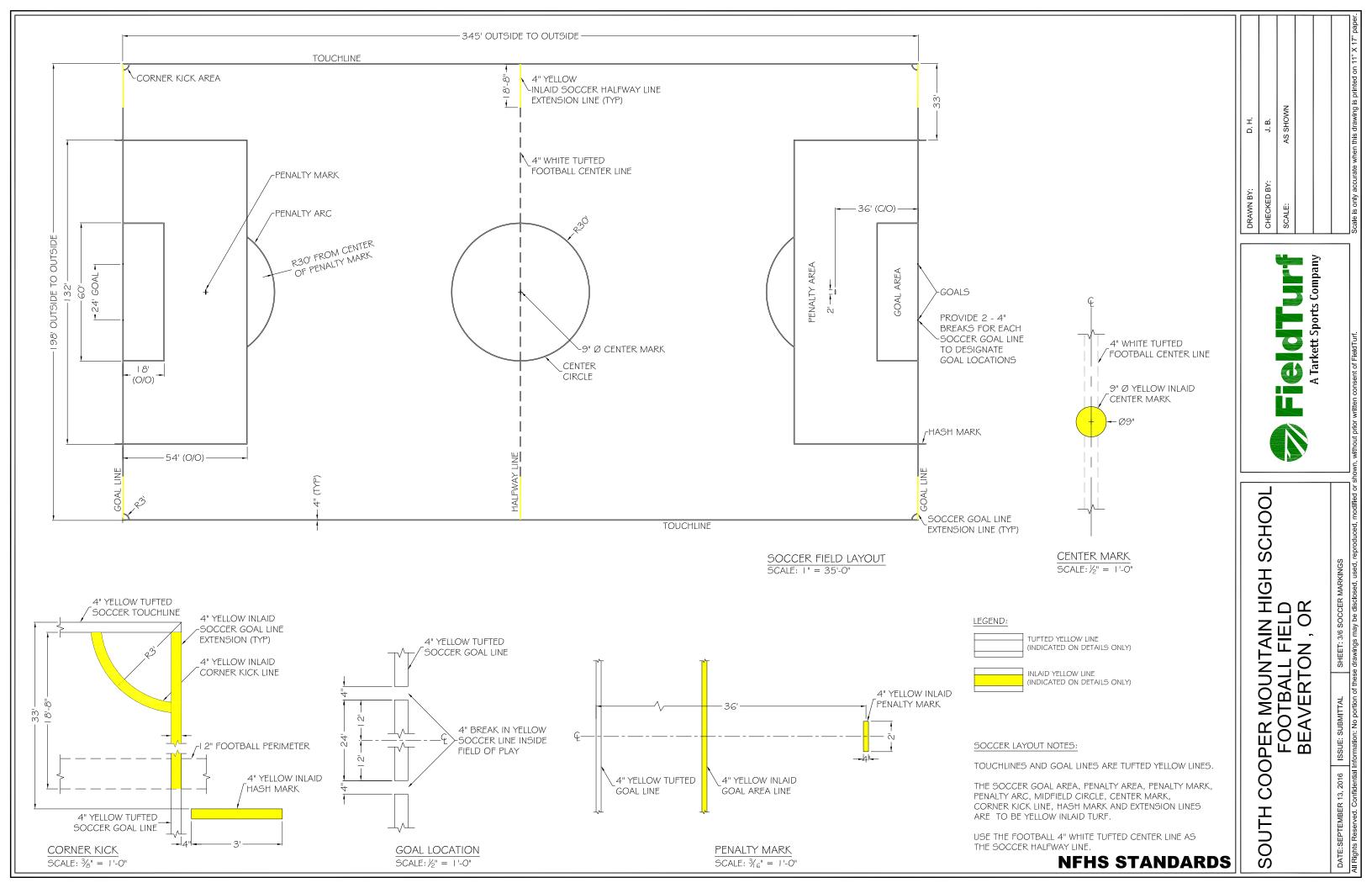


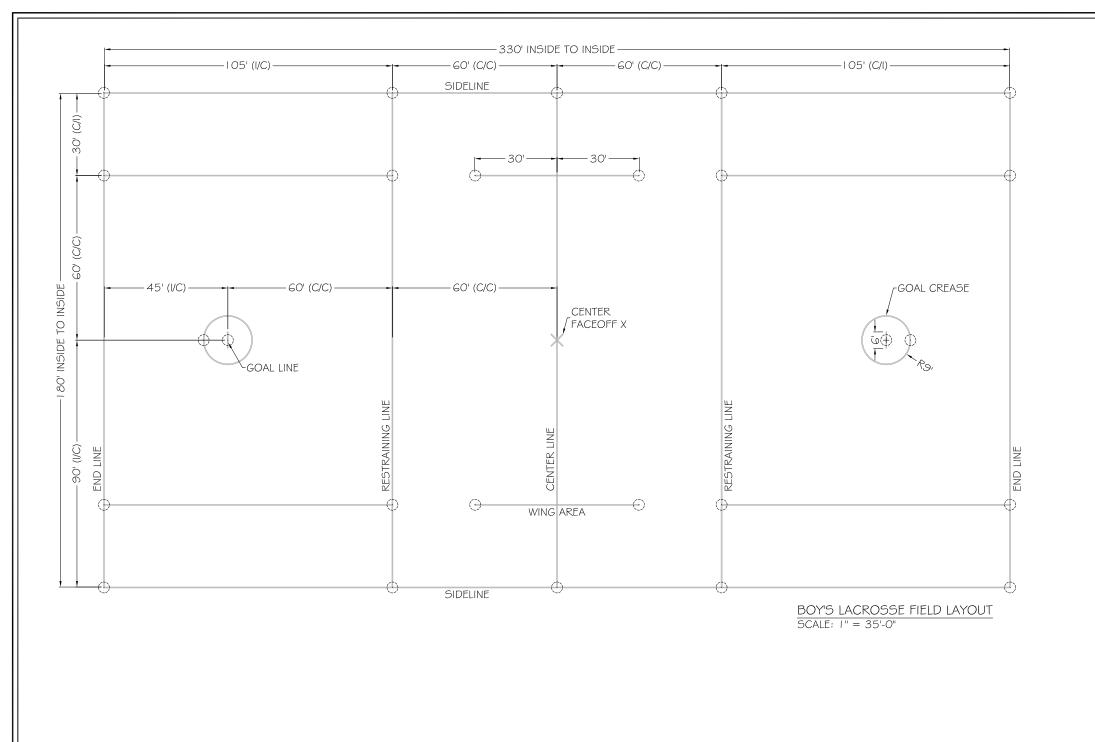
FIELD LAYOUT SUBMITTALS PREPARED BY: FIELDTURF DRAWN BY: DEBORAH HENDERSON DATE: SEPTEMBER 13.2016



APPROVED BY:
SIGNATURE:
PRINTED NAME:
TITLE:
DATE:

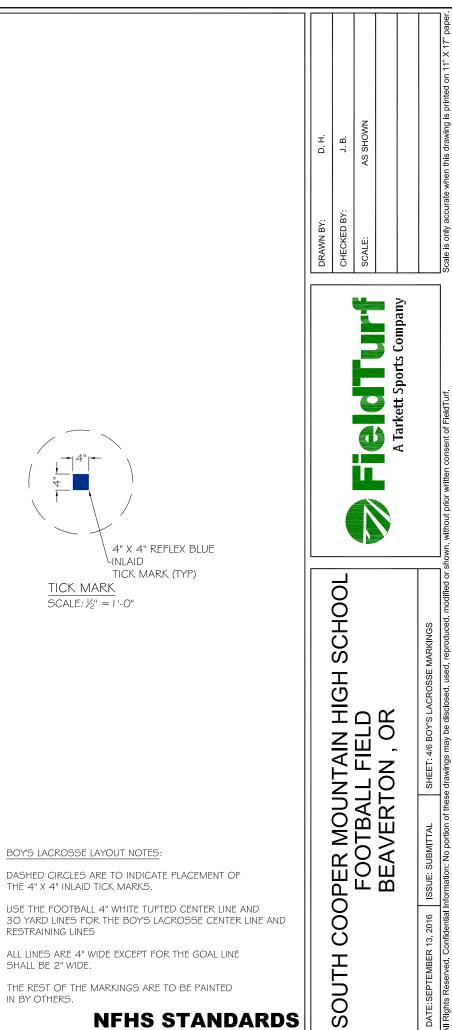


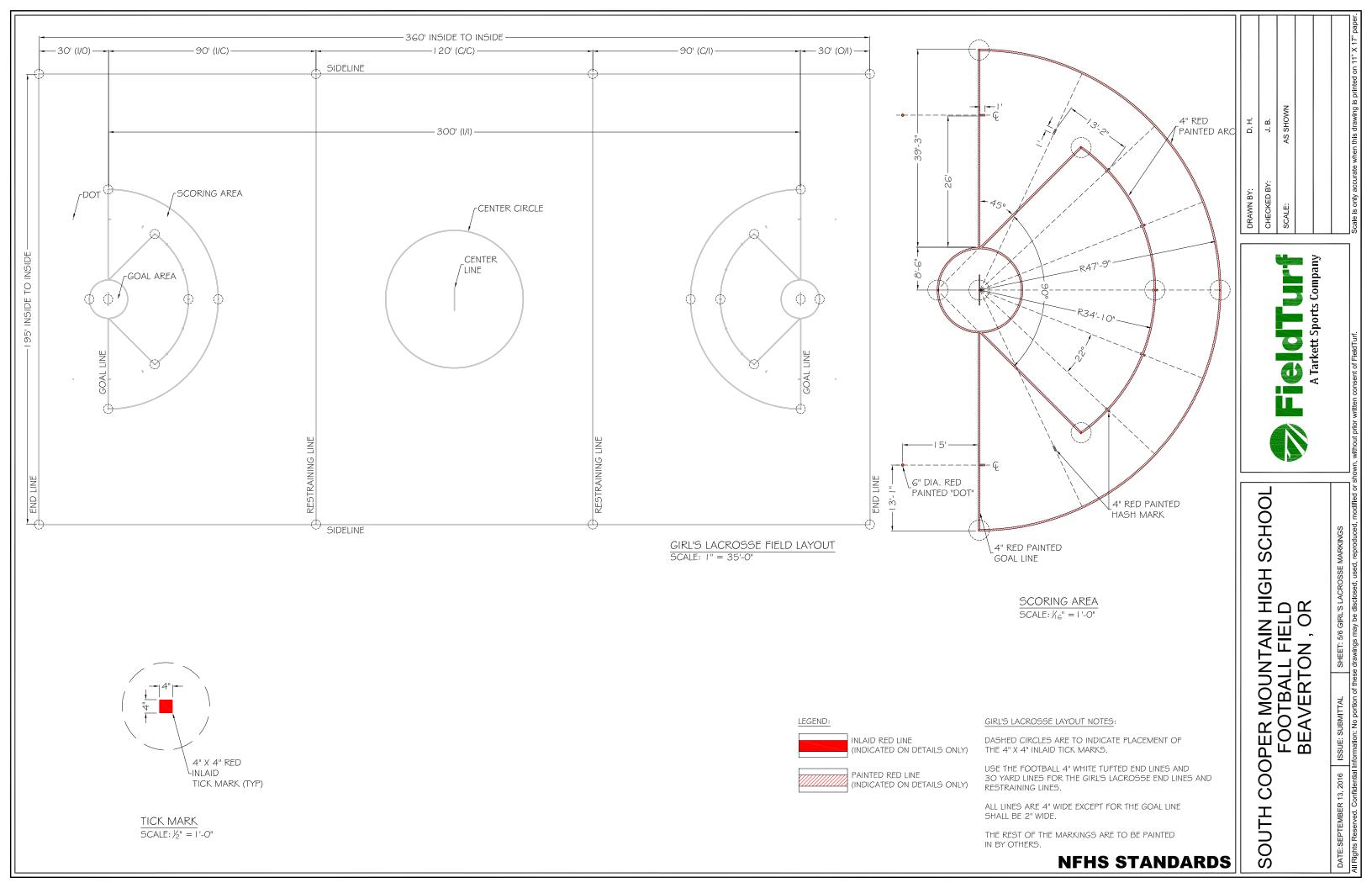




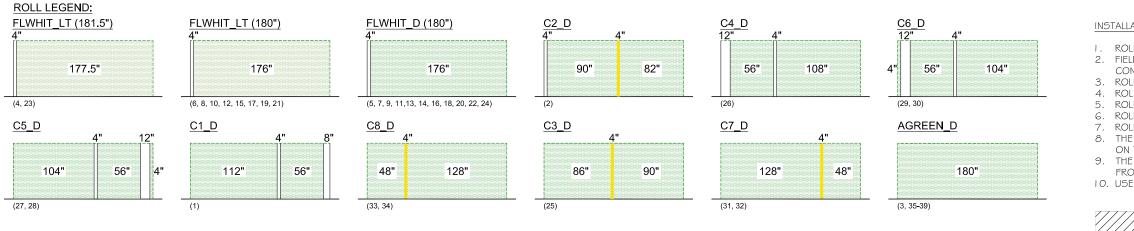
LEGEND:

INLAID REFLEX BLUE LINE (INDICATED ON DETAILS ONLY)





															TURF L		)									-	
													345' 3	BOCCE	R FIEL	D (0/0	) ———										
						4" SC	DCCER	PERIN	1eter (	YELLC		FOOT			TED //										ON THI		
		77		777		<u>, , , , , , , , , , , , , , , , , , , </u>	,-,-,-,-,						DALL I	LNIIVIL	TER (W	/IIIIL)	<i>, , , , , , ,</i> ,	, - <i>,</i> -, -, -		<del>, , , , , , ,</del>				OF TH	E ROL		$\overline{T}$
			35			18	30" x 1	91' A	GREE	N_D						36			180'	' x 19 <sup>-</sup>	1' AGF	REEN	_D				
		r :	31		ļ		180" ×	c 199'	C7_D							32				180"	x 199	' C7_[	C			V	
Ī		}	27				180"	X 199	9' C5_	D /						28				180	" X 19	9' C5_	D				
	t	<u> </u>								/				1									1				
			2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26
		****																									
					5		⊢ ⊢		<b>⊢</b>		F		F			F		F	0	F	0	Ε	0				
SOCCER FIELD (0/0)	60' FOOTBALL FIELD (I/I)			180" × 162' AGREEN_D	FLWHIT_LT	180" x 162' FLWHIT_D	180" × 162' FLWHIT_LT	180" x 162' FLWHIT_D	180" x 162' FLWHIT_LT	180" × 162' FLWHIT_D	180" × 162' FLWHIT_LT	80" × 162' FLWHIT_D	180" × 162' FLWHIT_LT	180" x 162' FLWHIT_D	180" x 162' FLWHIT_D	180" × 162' FLWHIT_LT	80" × 162' FLWHIT_D	180" × 162' FLWHIT_LT	180" × 162' FLWHIT_D	FLWHIT_LT	80" x 162' FLWHIT_D	x 162' FLWHIT_LT	180" × 162' FLWHIT_D	1/2" × 162' FLWHIT_LT	180" x 162' FLWHIT_D	٩	
IELD	L FIE	5 	180" × 162' C2_D	GRE	Z F F	L	HN	LVF	HN N	LVF	HN_	LVF	HM	LVF	Γ	HN-	LVF	HN-	LVF	HN-	LVF	HN-	LVF	FLV	LVF	180" × 162' C3_D	180" × 162' C4_D
CER	TBAL	162	162	2' A(	x 162'	2' F	2' FL	2' F	2' FL	2' F	2' FI	32' F	2' FL	2' F	2' F	2' FL	2' F	2' FL	32' F	2' FL	2' F	2, 닌 2,	2' F	62'	2' F	162	162
3000	F00	180" x 162'	0" ×	x 16	×	× 16	x 16:	× 16	× 16.	× 16	× 16	× 16	x 16.	× 16	× 16	x 16.	× 16	x 16.	x 16	x 16.	× 16	x 16.	× 16	×	× 16	× "0	0"_X
98.	60	18	18	80"	1 1/2"	180"	80"	180"	80"	180"	80"	180"	80"	180"	180"	80"	180"	80"	180"	180" x 162'	180"	180"	180"	1 1/2	180"	4	18
Ī	Ī			~	181		~		~				~			~				~		~		181			
		X																									
		X					Щ.		빌		Ч		Щ.		Ψ		HZ.		Ч		ÿ		щ				
		X	LINE		IN LINE		ARD LIN		rard LI.		YARD LI		YARD LI		YARD LII		YARD LI		YARD LINE		rard LI.		ARD LIN		AL LINE		LINE
	<u> </u> '-2"→		END END		<u>ğ</u>	1	6	L	<u>50</u>		00 M		6	1	20		9		0g		50		6		Ö9		
	<u> </u>	ļ	29				180	)" X 19	99' C6	D						30				180	" X 19	99' C6	D				
<u> </u>			33				180" ×	( 199'	C8_D							34				180"	x 199	' C8_[	D				
			/37			18	30" x 1	91' A	GREE	ND						38			180'	" x 19 <sup>.</sup>	1' Agf	REEN	D			/11	$\square$



 CONTINUOUS LINES.
ROLLS #1, #2 & #26 HAVE THE FOOTBALL END LINES.
ROLLS #4 & #24 HAVE THE FOOTBALL GOAL LINES.
ROLLS #2 & #25 HAVE THE FOOTBALL GOAL LINES.
ROLLS #2 & #25 HAVE THE SOCCER GOAL LINES.
ROLLS #31 TO #34 HAVE THE SOCCER GOAL LINES.
THE FOOTBALL SIDELINE ROLLS HAVE 4" OF GREEN ON THE FIELD SIDE OF THE ROLLS HAVE 4" OF GREEN ON THE FIELD SIDE OF THE ROLLS SHOULD START FROM THE 50-YARD LINE (ROLL #13/14).
USE THE LEGEND FOR PLACEMENT OF EXCESS ROLLS.

					1
				DRAWN BY:	M. K. / D. H.
SOUTH COC	<b>DPER MOU</b>	SOUTH COOPER MOUNTAIN HIGH SCHOOL		CHECKED BY:	J. B.
	FOOTBALL FIELD	LL FIELD		SCALE:	1"=45'
	<b>BEAVERTON</b> , OR	TON, OR		FIELD AREA:	95,134 sq. ft.
			A larkett sports company	TURF MANUF'D:	99,776 sq.ft.
DATE: OCTOBER 24, 2016 ISSUE: SUBMITTAL	ISSUE: SUBMITTAL	SHEET: 6/6 ROLL LAYOUT		EXTRA TURF:	4.9 %
All Rights Reserved. Confidential Ir	nformation: No portion of thes	All Rights Reserved. Confidential Information: No portion of these drawings may be disclosed, used, reproduced, modified or shown, without prior written consent of FieldTurf.	own, without prior written consent of FieldTurf	Scale is only accurate w	Scale is only accurate when this drawing is printed on 11" X 17" paper.

FTHD-1



INSTALLATIONS NOTES:

 ROLLS (SEAMS) ARE SHOWN IN DASHED LINES.
FIELD EDGE AND SPORTS LINES ARE SHOWN IN CONTINUOUS LINES.

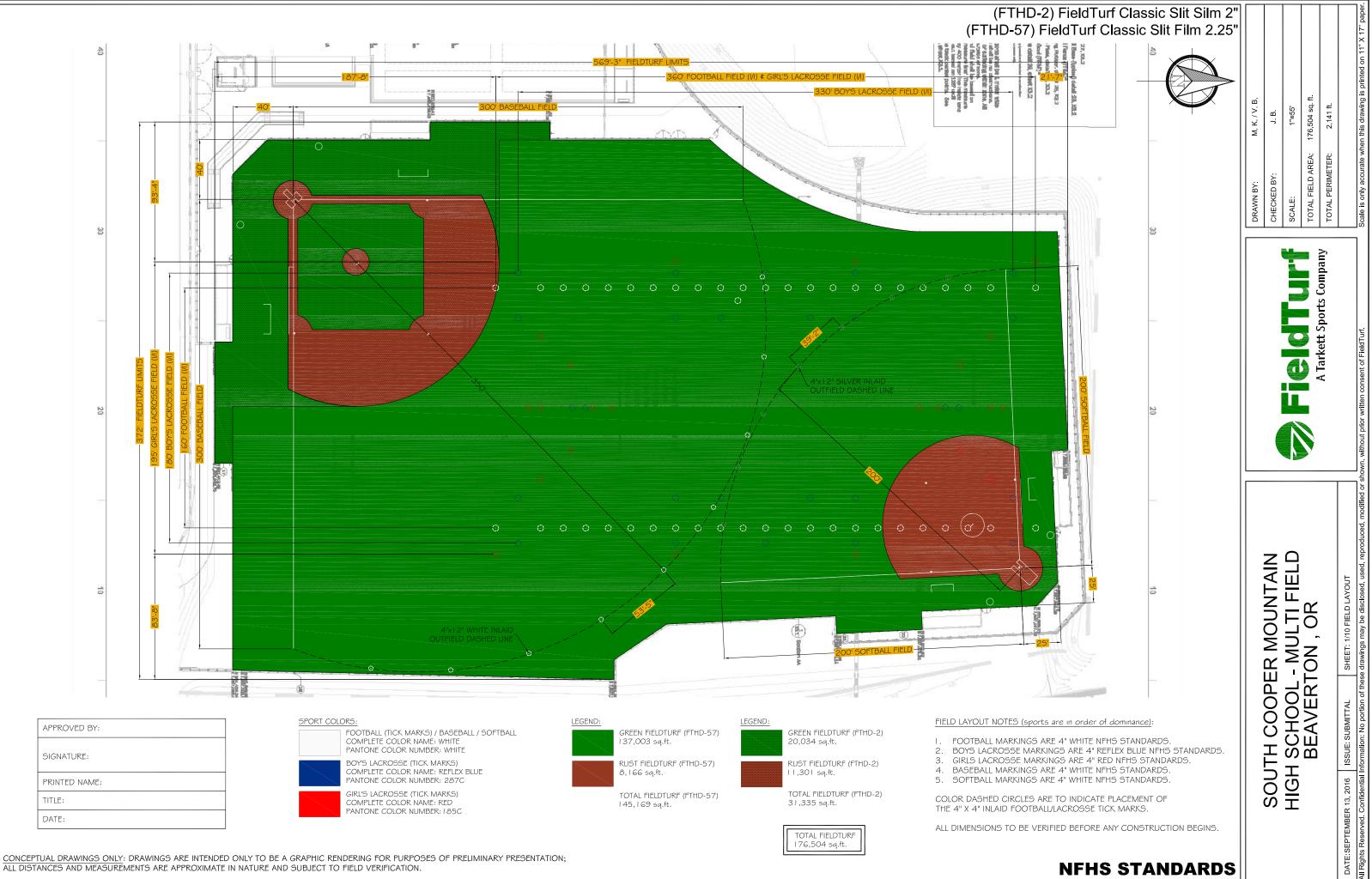
CUT-OFFS FROM ROLLS

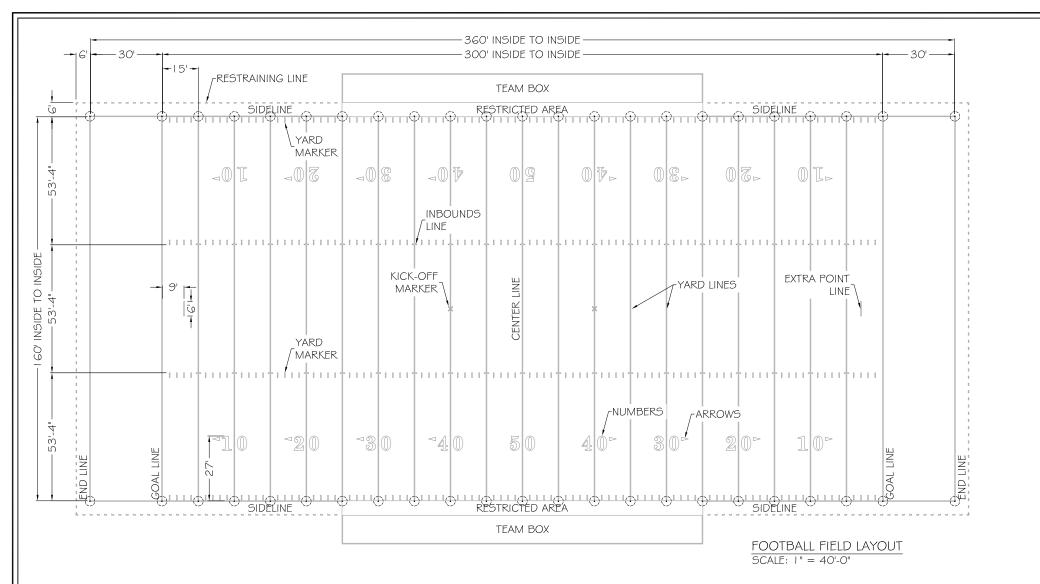


## SOUTH COOPER MOUNTAIN HIGH SCHOOL MULTI FIELD **BEAVERTON**, OR



FIELD LAYOUT SUBMITTALS PREPARED BY: FIELDTURF DRAWN BY: VIKEN BASTAJIAN DATE: SEPTEMBER 13TH. 2016

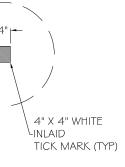






INLAID WHITE LINE (INDICATED ON DETAILS ONLY)

THE REST OF THE MARKINGS ARE TO BE PAINTED IN BY OTHERS.



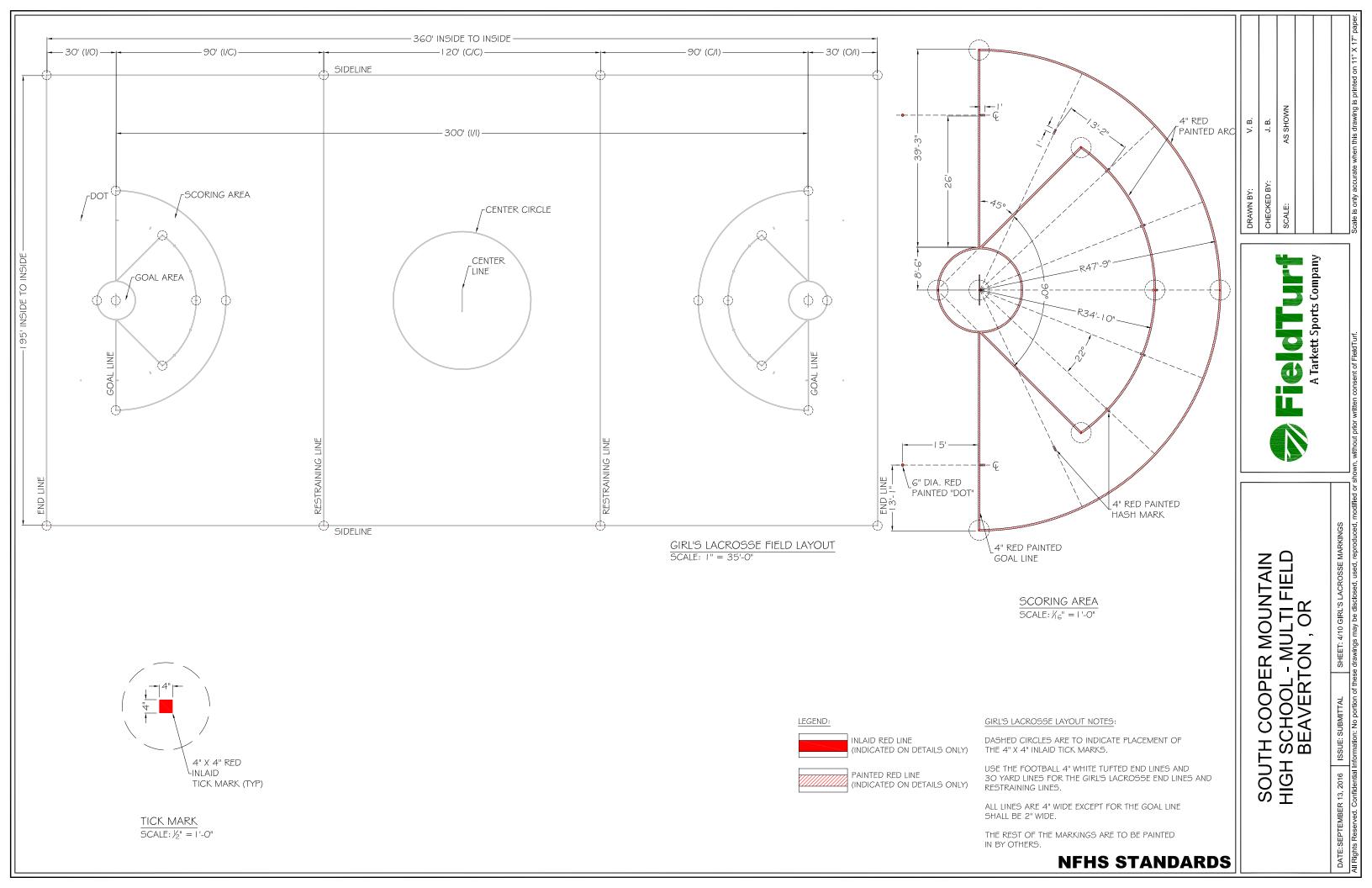


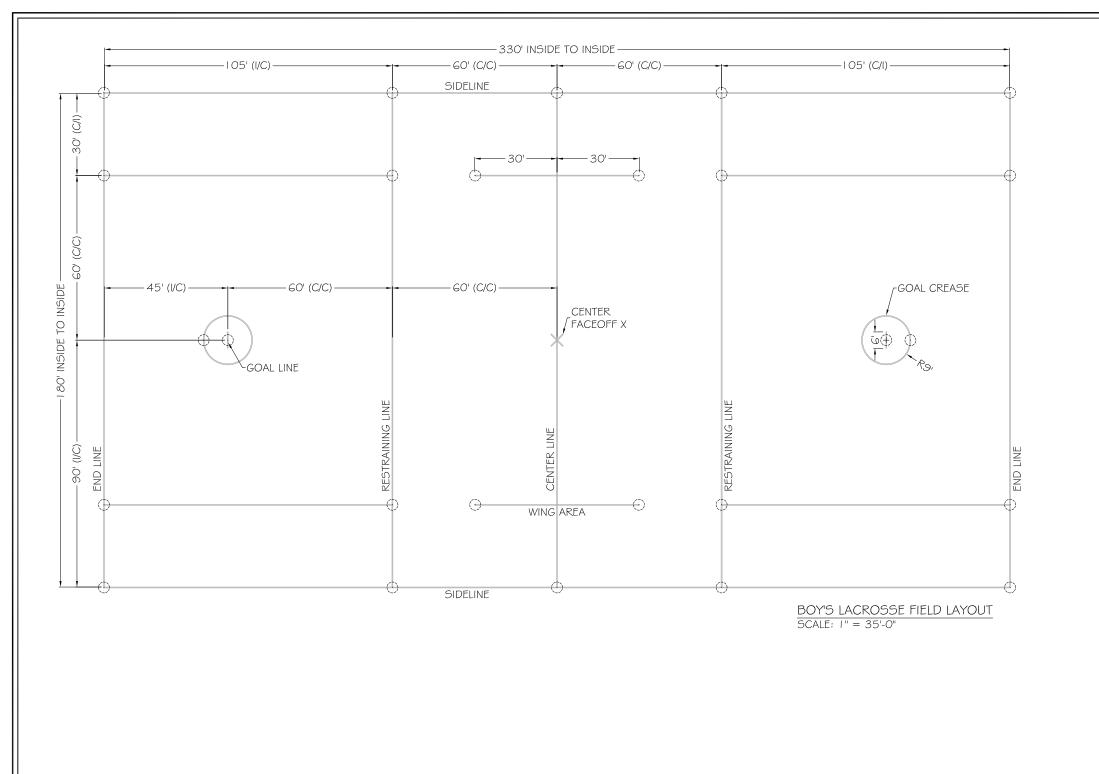
FOOTBALL LAYOUT NOTES:

DASHED CIRCLES ARE TO INDICATE PLACEMENT OF THE 4" X 4" INLAID TICK MARKS.

### **NFHS STANDARDS**

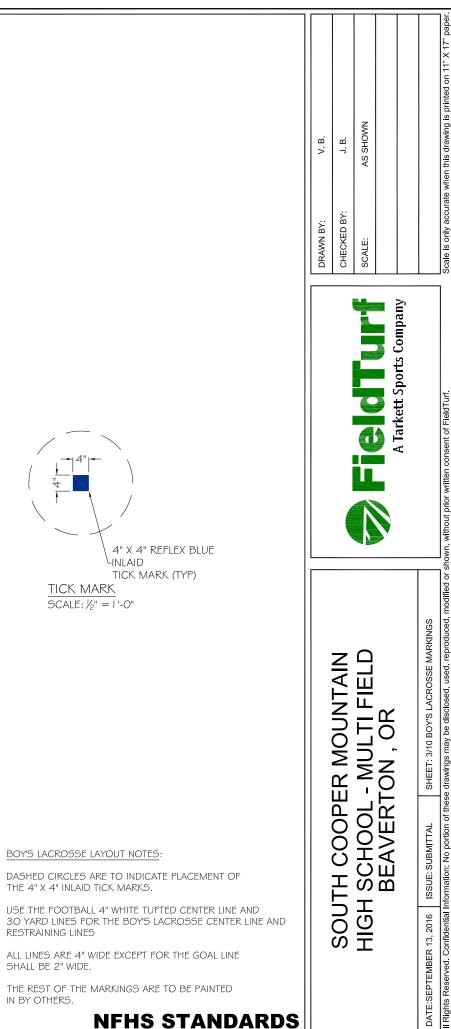
				DRAWN BY:	V. B.
SOUTH (	COOPE	SOUTH COOPER MOUNTAIN		СНЕСКЕD ВҮ:	J. B.
HIGH SC	HOOL	HIGH SCHOOL - MULTI FIELD		SCALE:	AS SHOWN
BĘ	AVERT	BEAVERTON, OR			
			A larkett sports company		
DATE:SEPTEMBER 13, 2016 ISSUE: SUBMITTAL	UBMITTAL	SHEET: 2/10 FOOTBALL MARKINGS			
All Rights Reserved. Confidential Information:	No portion of these	All Rights Reserved. Confidential Information: No portion of these drawings may be disclosed, used, reproduced, modified or shown, without prior written consent of FieldTurf.	hown, without prior written consent of FieldTurf.	Scale is only accurate w	Scale is only accurate when this drawing is printed on 11" X 17" paper.

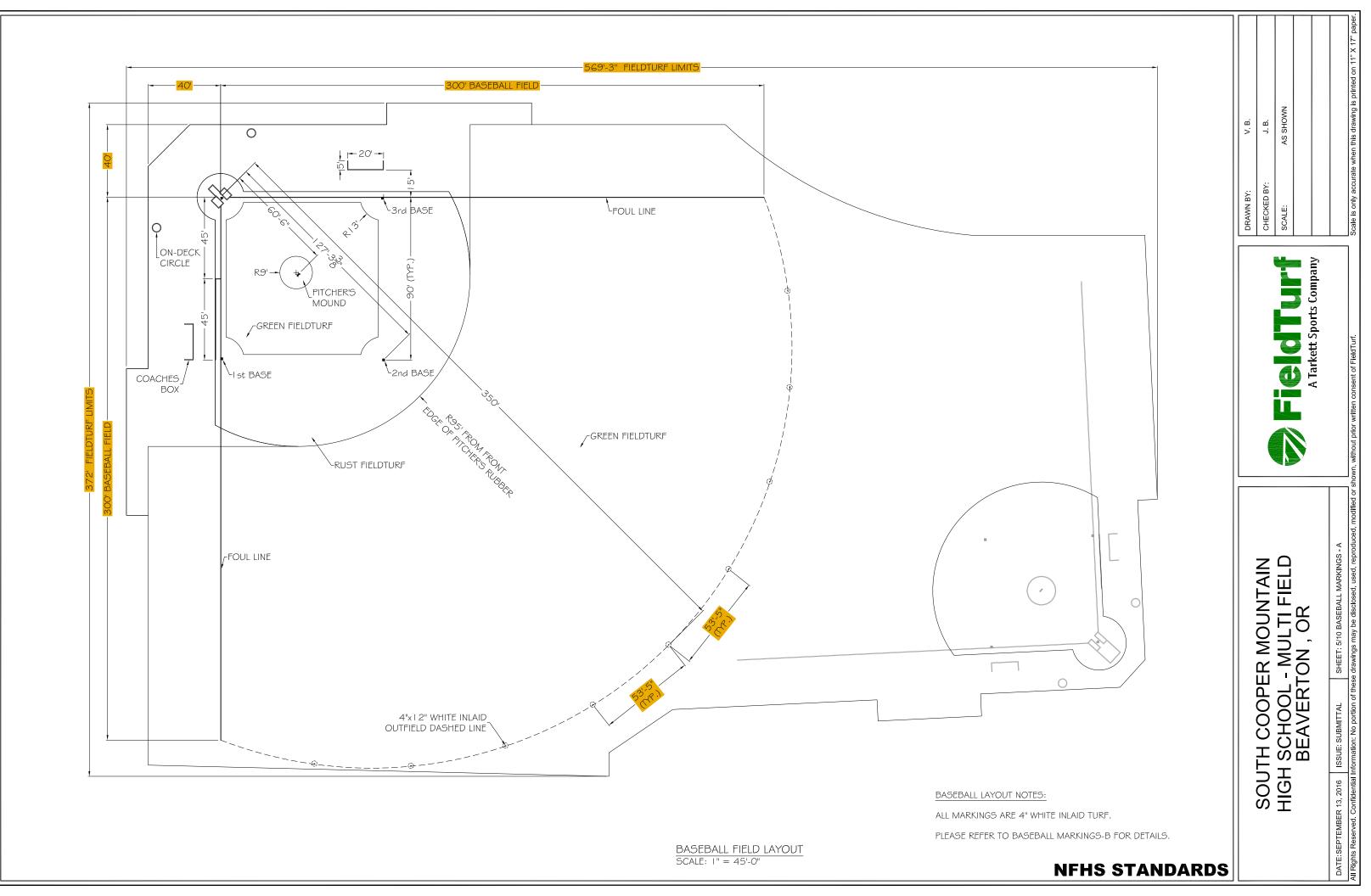


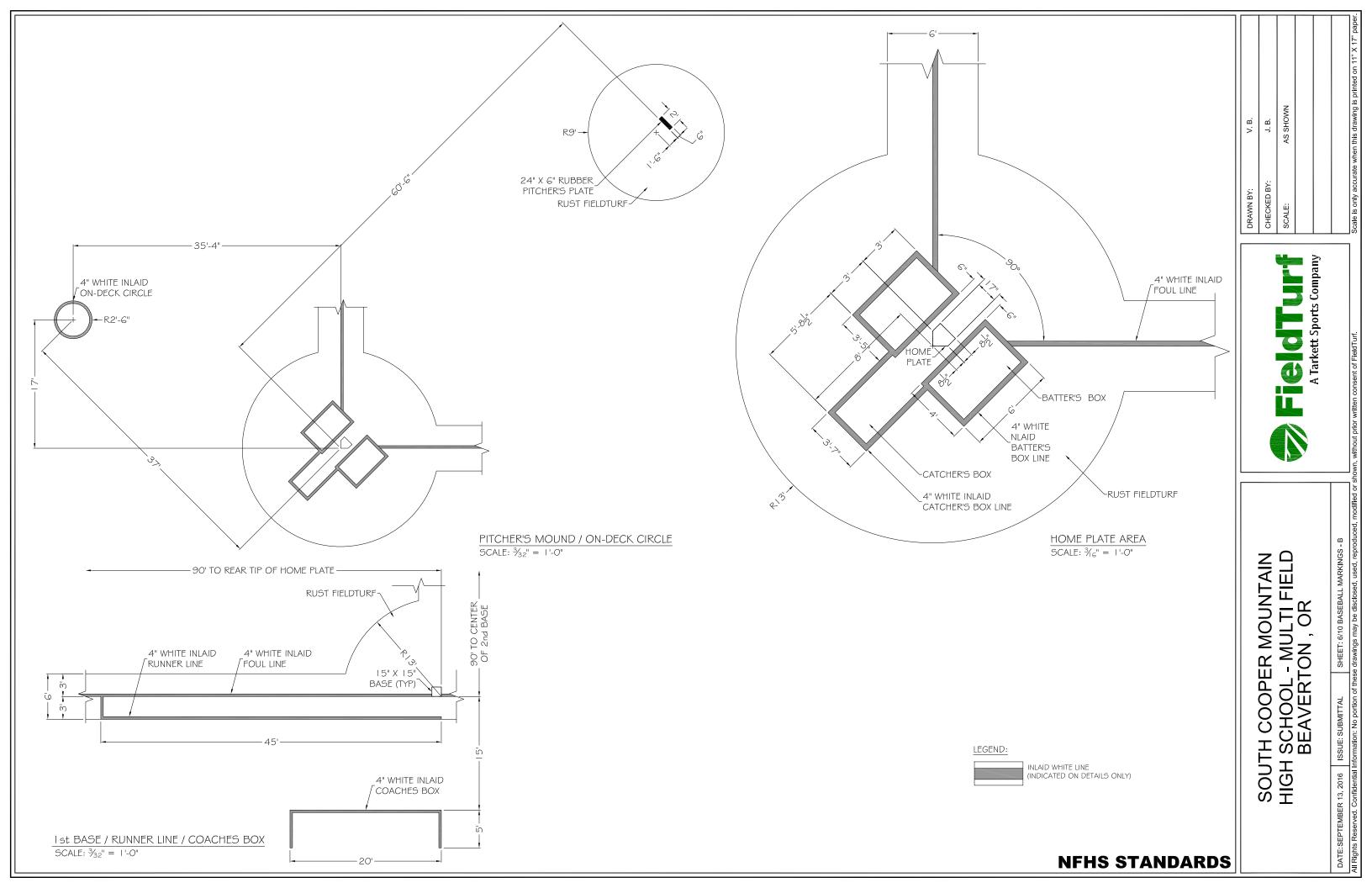


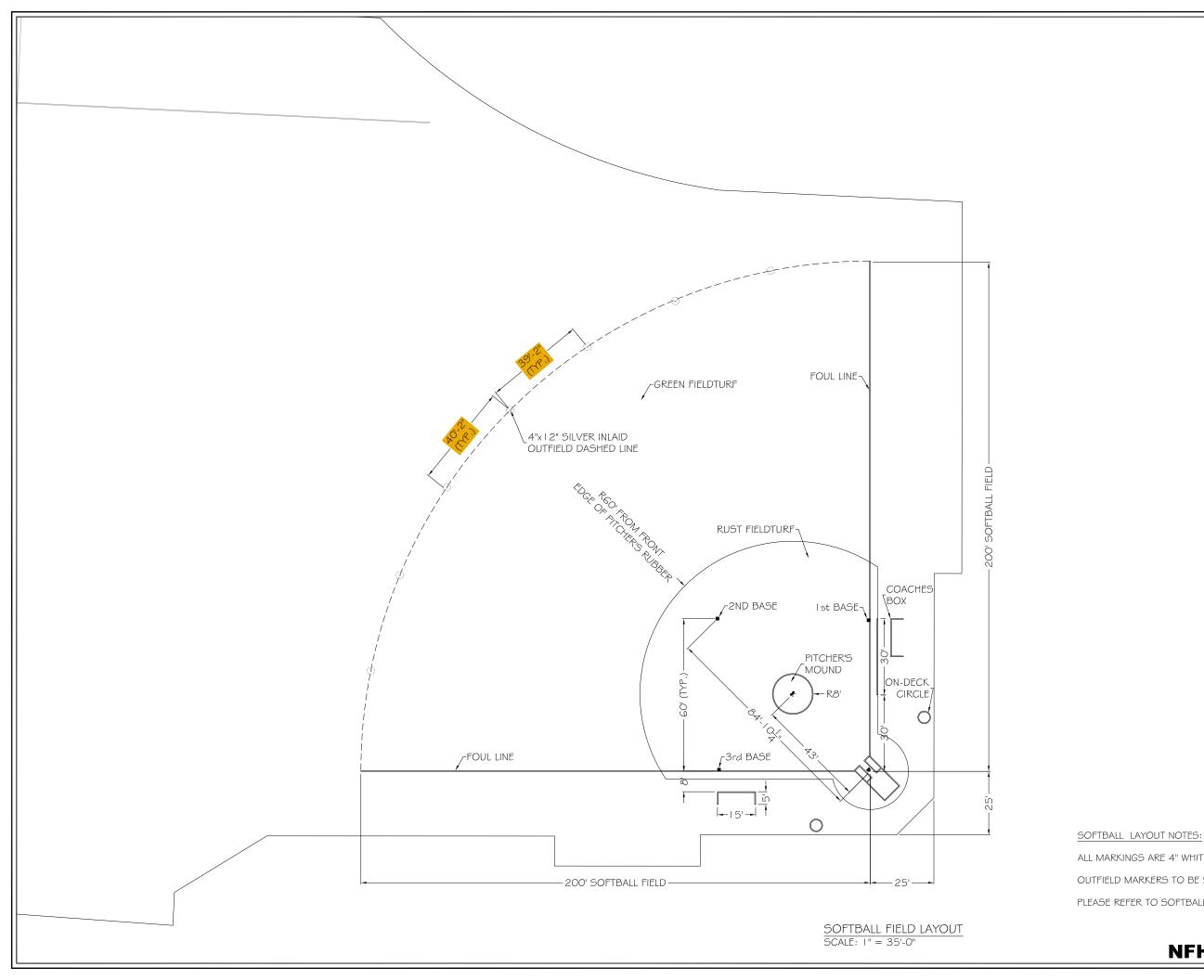
LEGEND:

INLAID REFLEX BLUE LINE (INDICATED ON DETAILS ONLY)









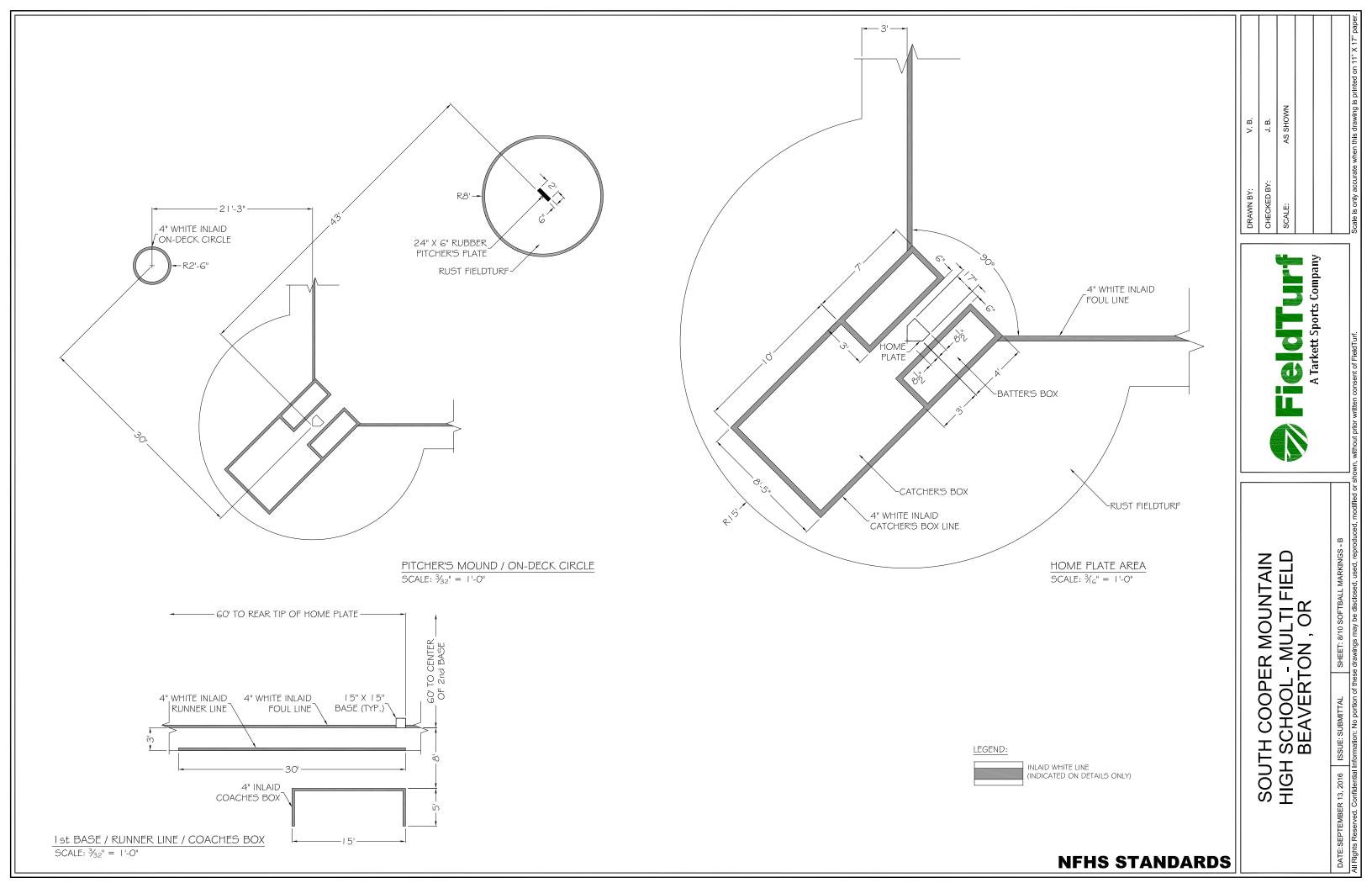
## **NFHS STANDARDS**

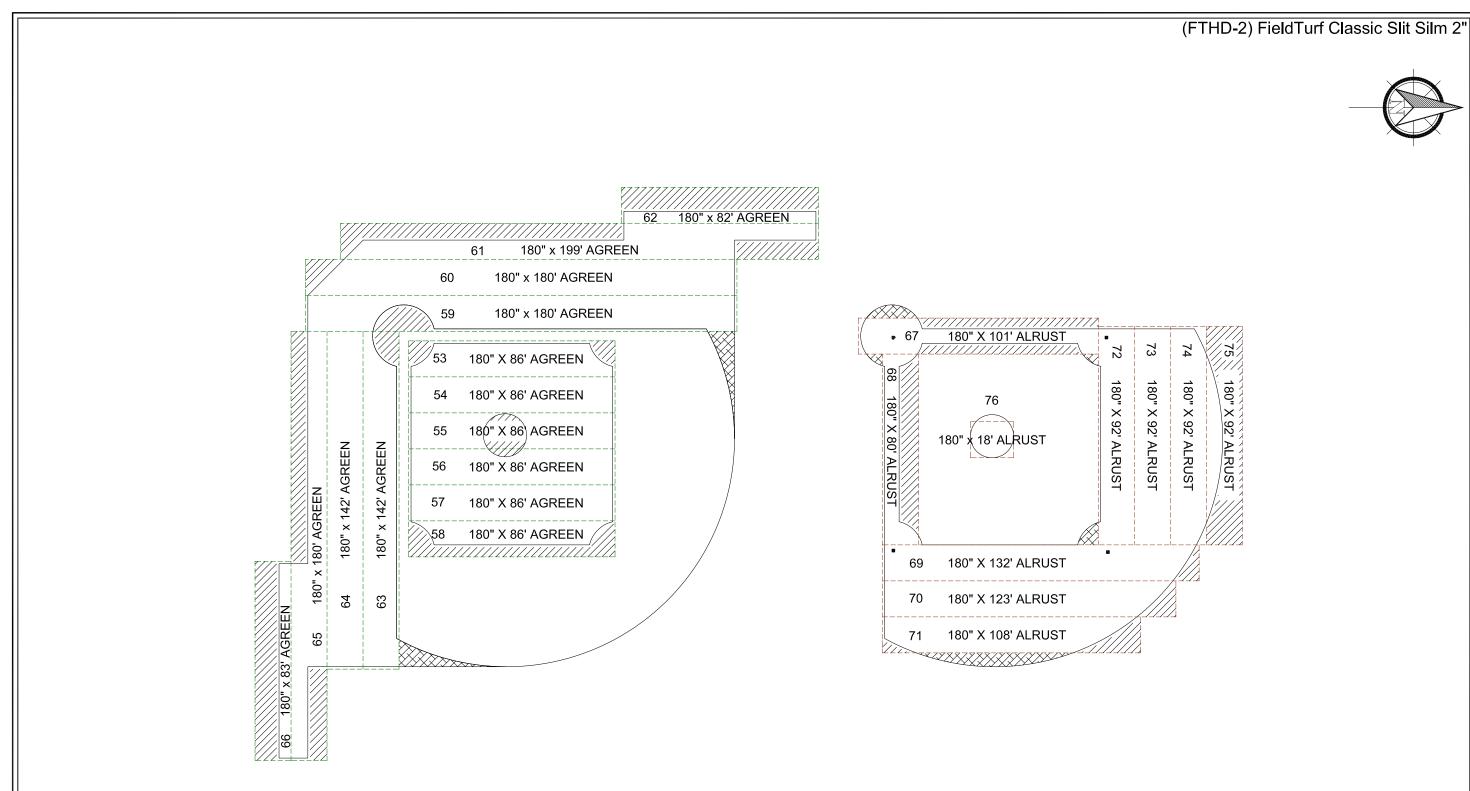
PLEASE REFER TO SOFTBALL MARKINGS-B FOR DETAILS.

OUTFIELD MARKERS TO BE SILVER INLAID TURF.

ALL MARKINGS ARE 4" WHITE INLAID TURF.

AS SHOWN < B. J. B. DRAWN BY: CHECKED BY: SCALE A Tarkett Sports Company 1 ß SOUTH COOPER MOUNTAIN HIGH SCHOOL - MULTI FIELD BEAVERTON , OR SHEET: 7/10 SOFTBALL MARKINGS ISSUE: SUBMITTAL DATE:SEPTEMBER 13, 2016





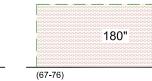


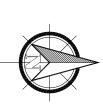
(53-66)

180"









INSTALLATIONS NOTES:

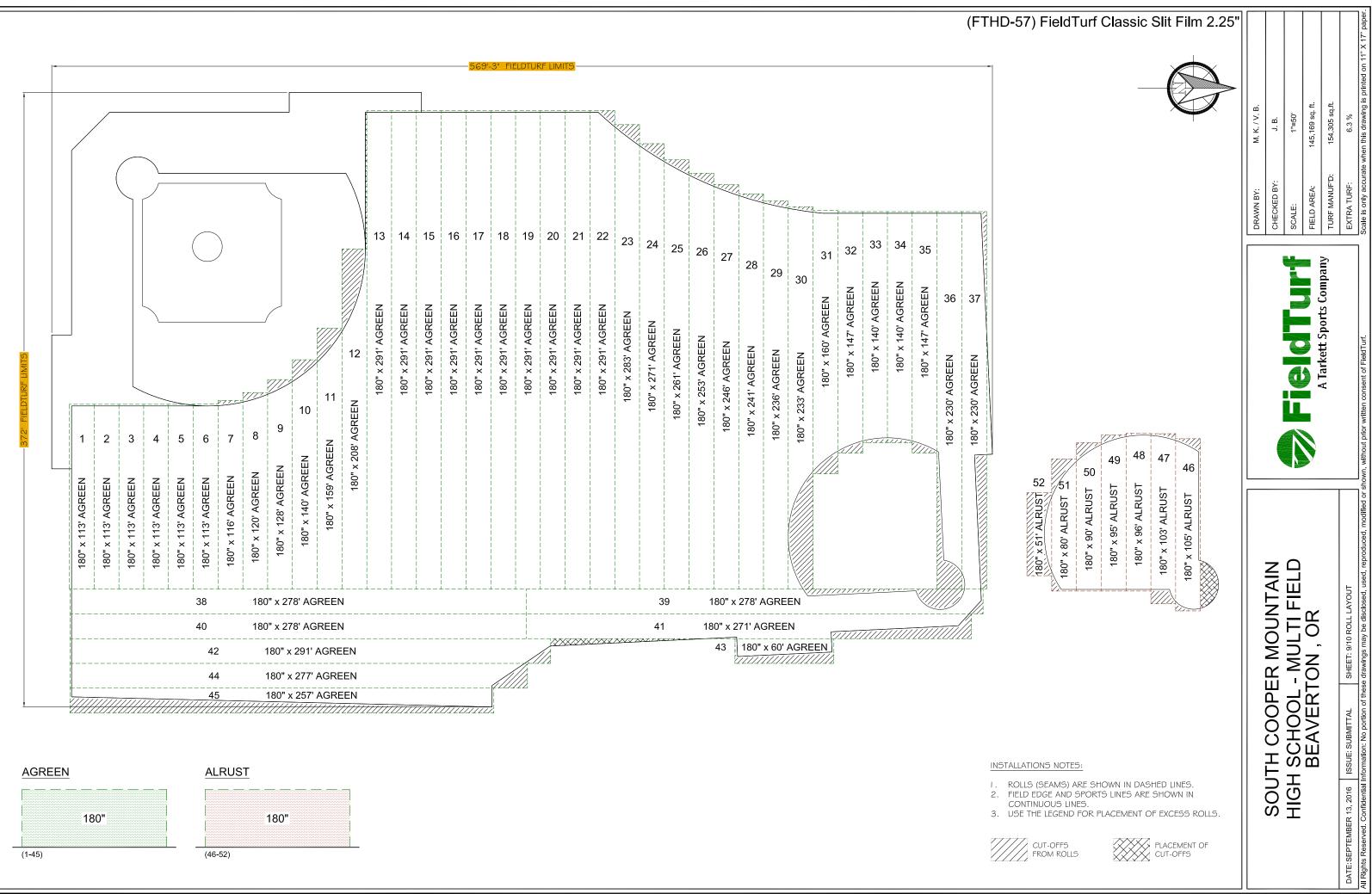
 ROLLS (SEAMS) ARE SHOWN IN DASHED LINES.
FIELD EDGE AND SPORTS LINES ARE SHOWN IN CONTINUOUS LINES. 3. USE THE LEGEND FOR PLACEMENT OF EXCESS ROLLS.





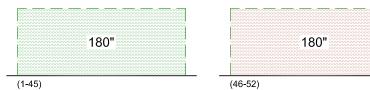
PLACEMENT OF CUT-OFFS

				DRAWN BY	M. K. / V. B.
Sour	TH COOPE	SOUTH COOPER MOUNTAIN		CHECKED BY:	J.B.
HOIH	SCHOOL	HIGH SCHOOL - MULTI FIELD		SCALE:	1"=40'
	<b>BEAVERTON</b> , OR	ron, or		FIELD AREA:	31,335 sq. ft.
			А ГАГКЕЦТ ЭРОГСЕ СОШРАНУ	TURF MANUF'D:	39,510 sq.ft.
DATE:SEPTEMBER 13, 2016 ISSUE: SUBMITTAL	ISSUE: SUBMITTAL	SHEET: 10/10 ROLL LAYOUT		EXTRA TURF:	26.1 %
All Rights Reserved. Confidential Info	formation: No portion of thes	Il Rights Reserved. Confidential Information: No portion of these drawings may be disclosed, used, reproduced, modified or shown, without prior written consent of FieldTurf.	own, without prior written consent of FieldTurf.	Scale is only accurate w	Scale is only accurate when this drawing is printed on 11" X 17" paper.





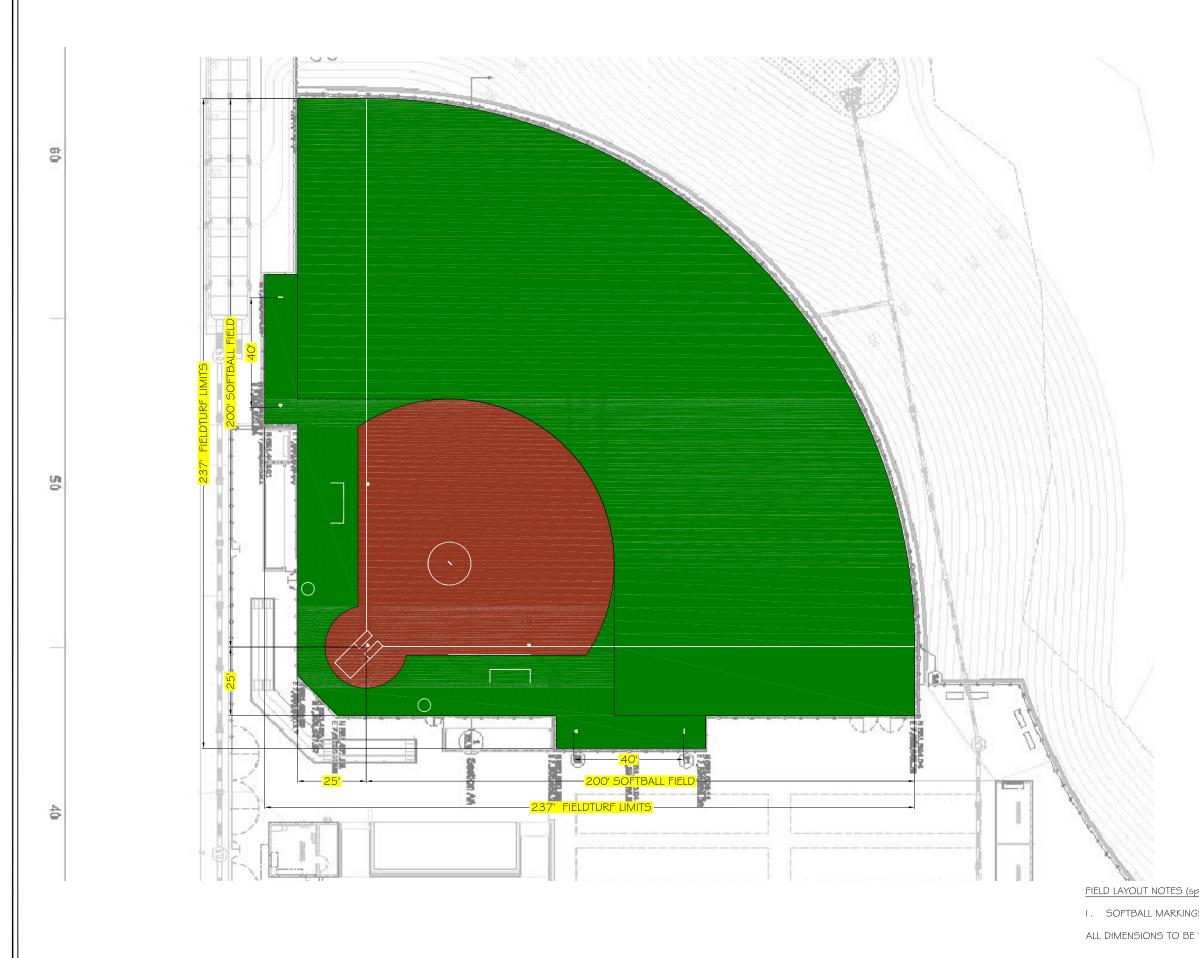




# SOUTH COOPER MOUNTAIN HIGH SCHOOL SOFTBALL FIELD **BEAVERTON**, OR



FIELD LAYOUT SUBMITTALS PREPARED BY: FIELDTURF DRAWN BY: DEBORAH HENDERSON DATE: SEPTEMBER 12.2016



CONCEPTUAL DRAWINGS ONLY: DRAWINGS ARE INTENDED ONLY TO BE A GRAPHIC RENDERING FOR PURPOSES OF PRELIMINARY PRESENTATION; ALL DISTANCES AND MEASUREMENTS ARE APPROXIMATE IN NATURE AND SUBJECT TO FIELD VERIFICATION.



1,1391

METER:

Щ

TOTAL F 43,251 sq.ft

1"=35'

SCALE:

TOTAL FIELD AREA:

49,320 sq.ft.

TURF MANUF'D:

A Tarkett Sports Company

0

Ì

14 %

EXTRA TURF:

SHEET: 1/5 PRESENTATION

DATE:SEPTEMBER 12, 2016 ISSUE: SUBMITTAL All Rights Reserved. Confidential Information: No portion

M K / D H

DRAWN BY

J. В.

CHECKED BY:

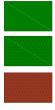
SIGNATURE:

PRINTED NAME:

TITLE:

DATE:

#### LEGEND:



### SPORT COLORS:

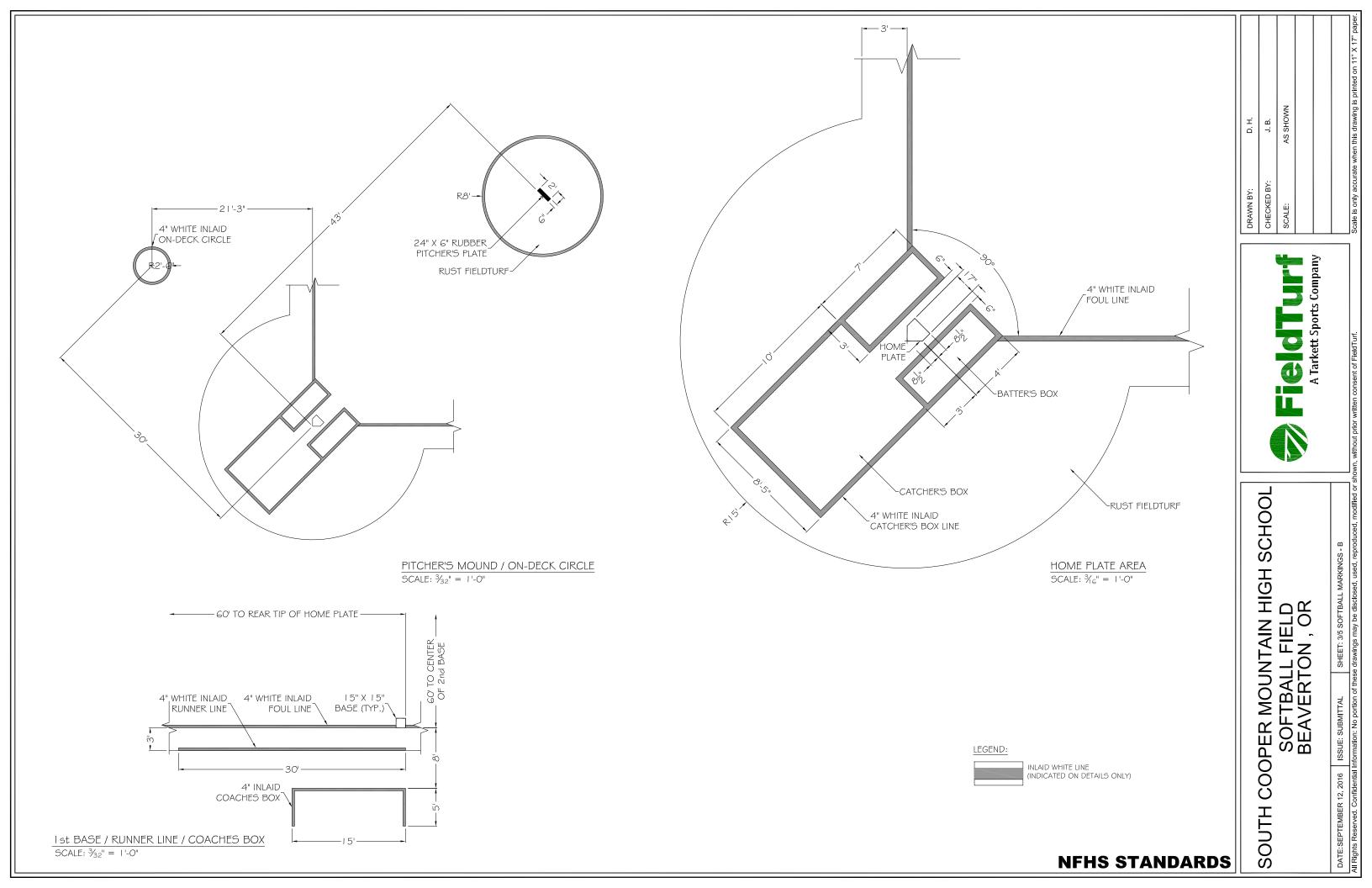


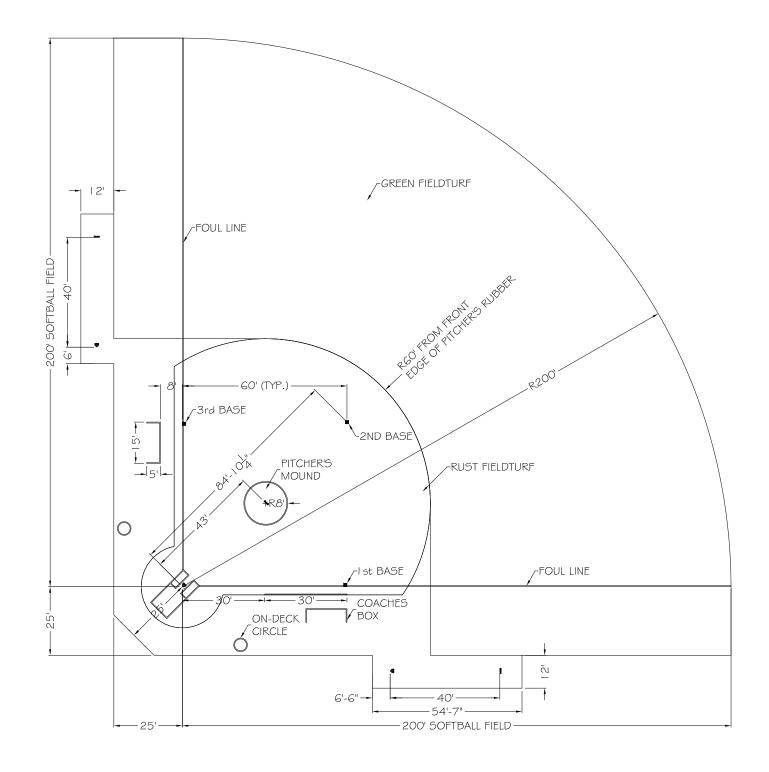
FIELD LAYOUT NOTES (sports are in order of dominance):

I. SOFTBALL MARKINGS ARE 4" WHITE NFHS STANDARDS.

ALL DIMENSIONS TO BE VERIFIED BEFORE ANY CONSTRUCTION BE

	SCHOOL
GREEN FIELDTURF (FTHD-57) 29,497sq.ft.	CH
GREEN FIELDTURF (FTHD-2) 5,581 sq.ft.	H S
RUST FIELDTURF (FTHD-2) 8, I 66 sq.ft.	
TOTAL FIELDTURF (FTHD-2) I 2,797 sq.ft.	
TOTAL FIELDTURF 43,251 sq.ft.	
SOFTBALL COMPLETE COLOR NAME: WHITE PANTONE COLOR NUMBER: WHITE	SOUTH COOPER MOUNTAIN HIGH SOFTBALL FIELD BEAVERTON , OR
order of dominance):	
'HITE NFHS STANDARDS.	
EFORE ANY CONSTRUCTION BEGINS.	OUTH
NFHS STANDARDS	_ آ



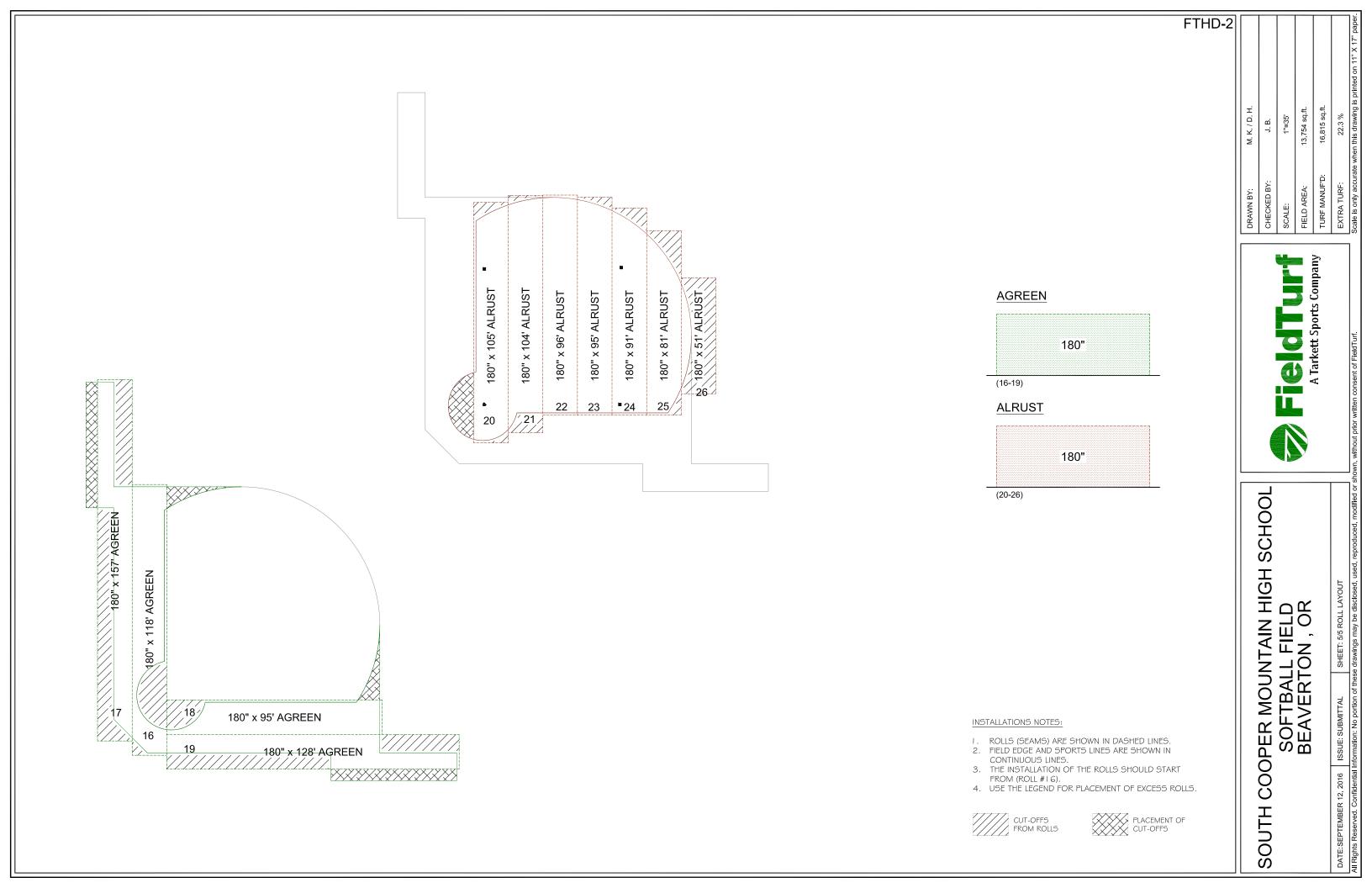


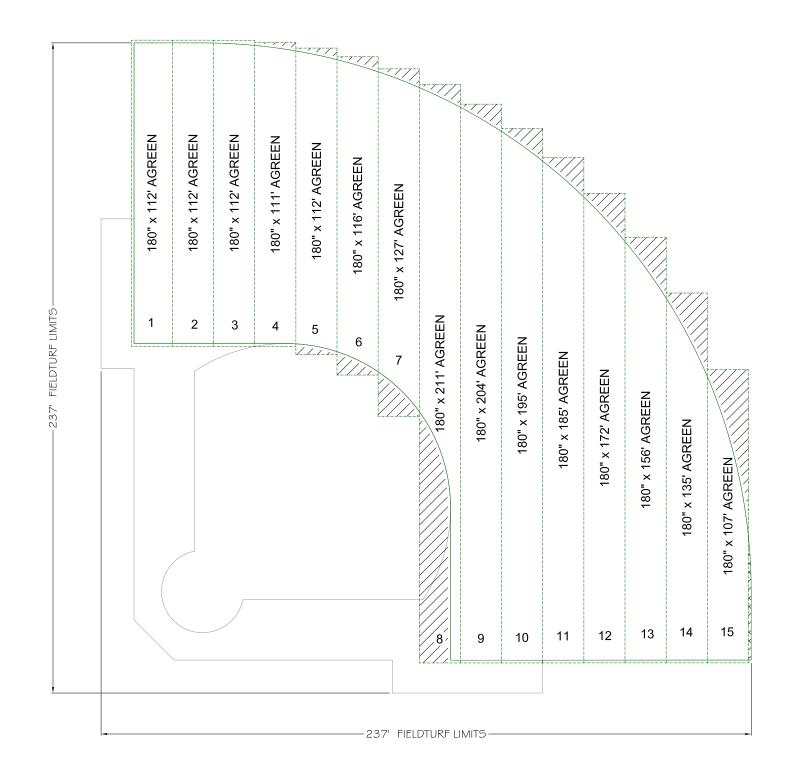
SOFTBALL LAYOUT NOTES: ALL MARKINGS ARE 4" WHITE INLAID TURF. PLEASE REFER TO SOFTBALL MARKINGS-B FOR DETAILS.

SOFTBALL FIELD LAYOUT SCALE: I" = 35'-0"

				DRAWN BY:	D.H.
SOUTH COC	<b>DPER MOU</b>	SOUTH COOPER MOUNTAIN HIGH SCHOOL		CHECKED BY:	J. B.
	SOFTBALL FIELD			SCALE:	AS SHOWN
	<b>BEAVERTON</b> , OR	TON, OR			
			A LARKELL SPORTS COMPANY		
DATE:SEPTEMBER 12, 2016 ISSUE: SUBMITTAL		SHEET: 2/5 SOFTBALL MARKINGS - A			
All Rights Reserved. Confidential I	Information: No portion of the	Il Rights Reserved. Confidential Information: No portion of these drawings may be disclosed, used, reproduced, modified or shown, without prior written consent of FieldTurf.	hown, without prior written consent of FieldTurf.	Scale is only accurate w	Scale is only accurate when this drawing is printed on 11" X 17" paper.

NFHS STANDARDS





Scale is only accurate when this drawing is printed on $11^{\circ}$ X $17^{\circ}$ paper.	Scale is only accur	ed or shown, without prior written consent of Field I urt.	All Rights Reserved. Confidential Information: No portion of these drawings may be disclosed, used, reproduced, modified or shown, without prior written consent of Field Turf.
10.2 %	EXTRA TURF:		DATE:SEPTEMBER 12, 2016 ISSUE: SUBMITTAL SHEET: 4/5 ROLL LAYOUT
: 32,505 sq.ft.	TURF MANUF'D:		
29,497 sq.ft.	FIELD AREA:	menuel strong the last	BEAVERTON, OR
1"=35'	SCALE		SOFTBALL FIELD
J. B.	CHECKED BY:		SOUTH COOPER MOUNTAIN HIGH SCHOO
M. K. / D. H.	DRAWN BY:		
FTHD-57			DASHED LINES. ARE SHOWN IN S SHOULD START NT OF EXCESS ROLLS.

AGREEN

180"

(1-15)

INSTALLATIONS NOTES:

ROLLS (SEAMS) ARE SHOWN II
FIELD EDGE AND SPORTS LINE CONTINUOUS LINES.
THE INSTALLATION OF THE RO FROM (ROLL #1).
USE THE LEGEND FOR PLACEM

CUT-OFFS FROM ROLLS

