



BUILDING THE PERFECT FIELD

Information

(800) 724-2969
info@fieldturf.com
www.fieldturf.com

 **FieldTurf®**
A Tarkett Sports Company

THE ULTIMATE
SURFACE EXPERIENCE

[illegible]

Task		Summary		External Milestone		Inactive Summary		Manual Summary Rollup		Finish-only	
Split		Project Summary		Inactive Task		Manual Task		Manual Summary		Deadline	
Milestone		External Tasks		Inactive Milestone		Duration-only		Start-only		Progress	



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THE ULTIMATE
SURFACE EXPERIENCE

Date: April 3, 2017

To: Great Falls Public Schools
Great Falls, MT

Project: Great Falls Public School
Track & Synthetic Turf Surface

RE: Schedule

To Whom it May Concern:

FieldTurf certifies their ability to meet the District's time frame. All deadlines will be contingent upon maintaining the 21 day approval process, suitable base and weather conditions.

Please find FieldTurf's preliminary schedule for this project;

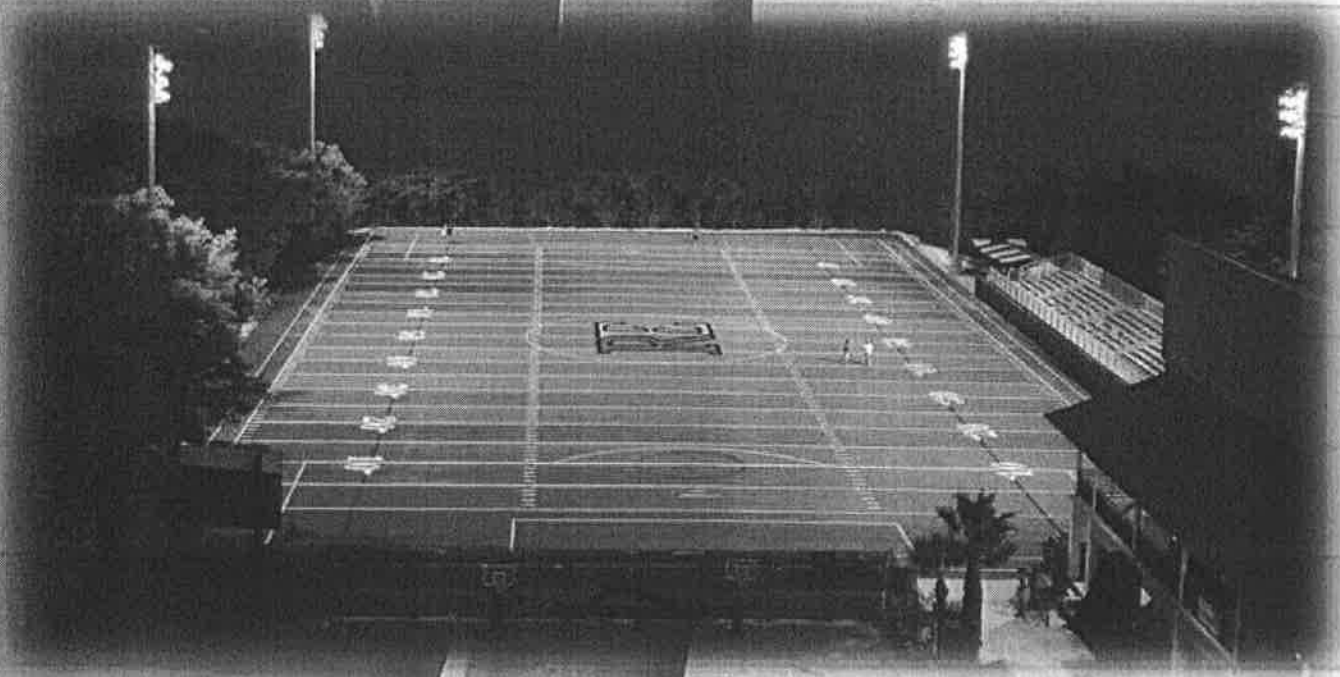
- 1 day to unload turf and to layout field dimensions;
- 5 days to sew;
- 2 days for each sport for a total of 6 days of inlays;
- 5 days to infill;
- 1 day to clean up.

Best Regards,

Sara Marinelli
Project Manager
514-375-2969
Sara.Marinelli@fieldturf.com

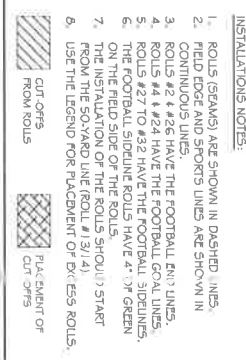
Cc: Jed Easterbrook, Regional Sales Manager

FIELDturf®



Field Building Handbook

Bring your field
of dreams to life!



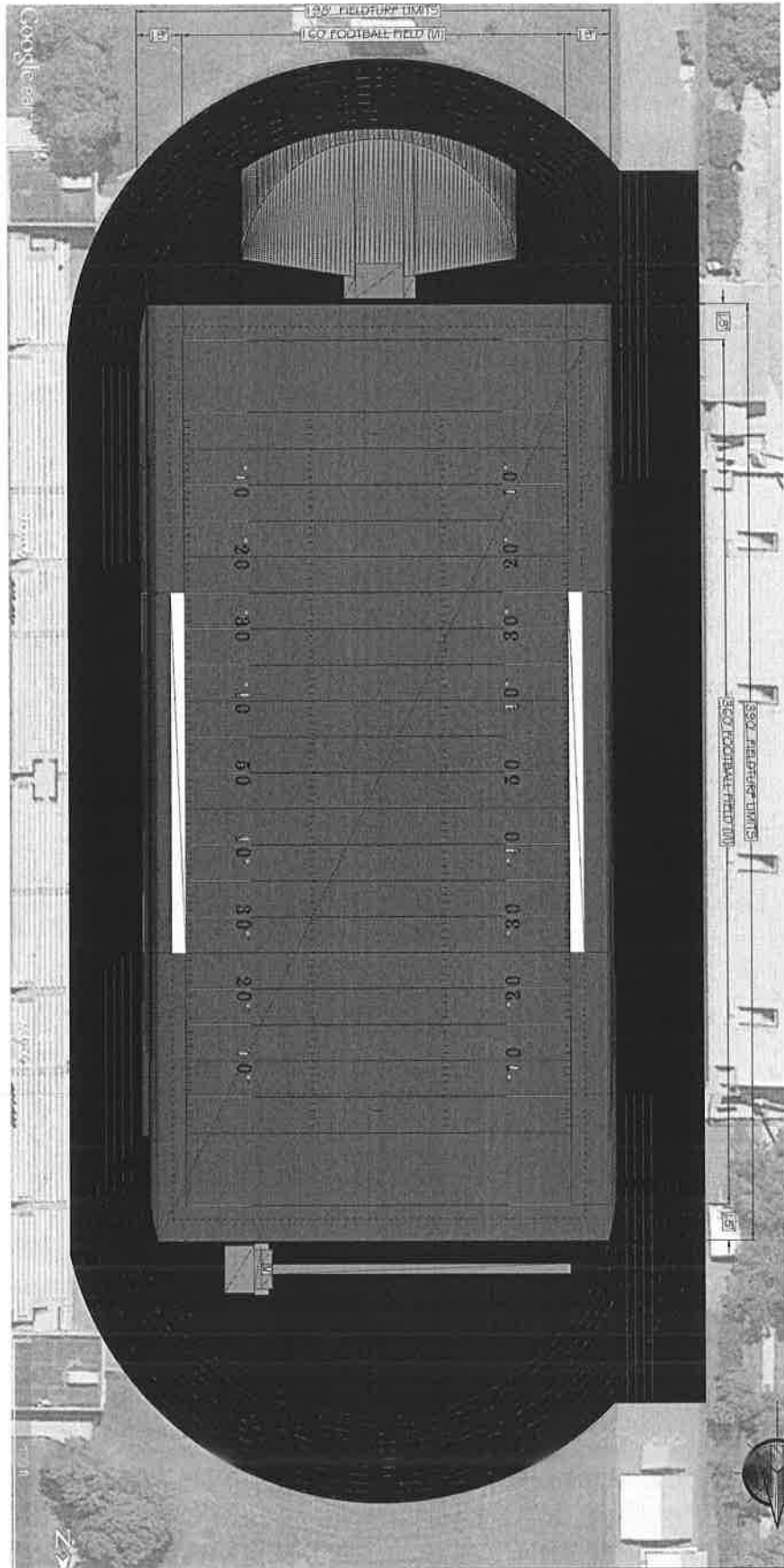
DRAWN BY:	M. H.
CHECKED BY:	J. B.
SCALE:	1"=40'
FIELD AREA:	76,979 sq ft
TURF MANUF'D:	80,938 sq ft.
EXTRA TURF:	5.1 %

PRESENTATION

FIELDTURF - DRAFTER CHECKLIST

COMPANY	FIELDTURF	PROJECT NAME	GREAT FALLS FOOTBALL
STATE	MONTANA - MT		
TYPE OF FIELD	HIGH SCHOOL		
TEMPLATE	NFHS		
PRODUCT 1	XTHD-57		
PRODUCT 2			
SPORT	COLOR	STANDARD	COMMENTS
FOOTBALL	WHITE	NFHS	
LOGO COLORS			
ADDITIONAL INFO			
Run VBA	YES		

FIELDTurf XT HD SLIT FILM 2.25" / XTHD-57



SPORT COLORS:
 FOOTBALL COLOR NAME: WHITE
 FOOTBALL COLOR NUMBER: WHITE

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

LEGEND:
 GREEN FIELDTurf
 76,979 sq ft
 TRACE AREA
 69,132 sq ft

FIELD LAYOUT NOTES (reports are in order of dominance):
 1. FOOTBALL MARKINGS ARE 4" WHITE NFHS STANDARDS.
 FIELD DOMINANCE IS ONLY WITHIN THE FOOTBALL FIELD OF PLAY.
 ALL DIMENSIONS TO BE VERIFIED BEFORE ANY CONSTRUCTION BEGINS.

NFHS STANDARDS

GREAT FALLS FOOTBALL
 GREAT FALLS, MT

FieldTurf
 A Tarkett Sports Company

DRAWN BY:	M. H.
CHECKED BY:	J. B.
SCALE:	1"=45'
FIELD AREA:	76,979 sq ft
PERIMETER:	1,167 in ft

DATE: APRIL 03, 2017 ISSUE: PRESENTATION SHEET: XX FIELD LAYOUT

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Scale is only accurate when this drawing is printed on 11" X 17" paper.

NJPA Great Falls Public Schools
Page 5 of 5
Monday, April 3, 2017

The price is valid for a period of 90 days. The price is subject to increase if affected by an increase in raw materials, freight, or other manufacturing costs, a tax increase, new taxes, levies or any new legally binding imposition affecting the transaction. The price of the base preparation is subject to increase in the event FieldTurf encounters any of the following site conditions: soil contamination; bedrock; unknown utilities; underground springs; unstable or unsuitable ground; and any concealed or unknown conditions.

Please contact Eric Fisher if you have any questions or require additional information regarding FieldTurf's SmartBuy Cooperative Purchasing Program. 888-209-0065, ext. 246 or via e-mail at eric.fisher@fieldturf.com. Be sure to visit our website at www.fieldturf.com



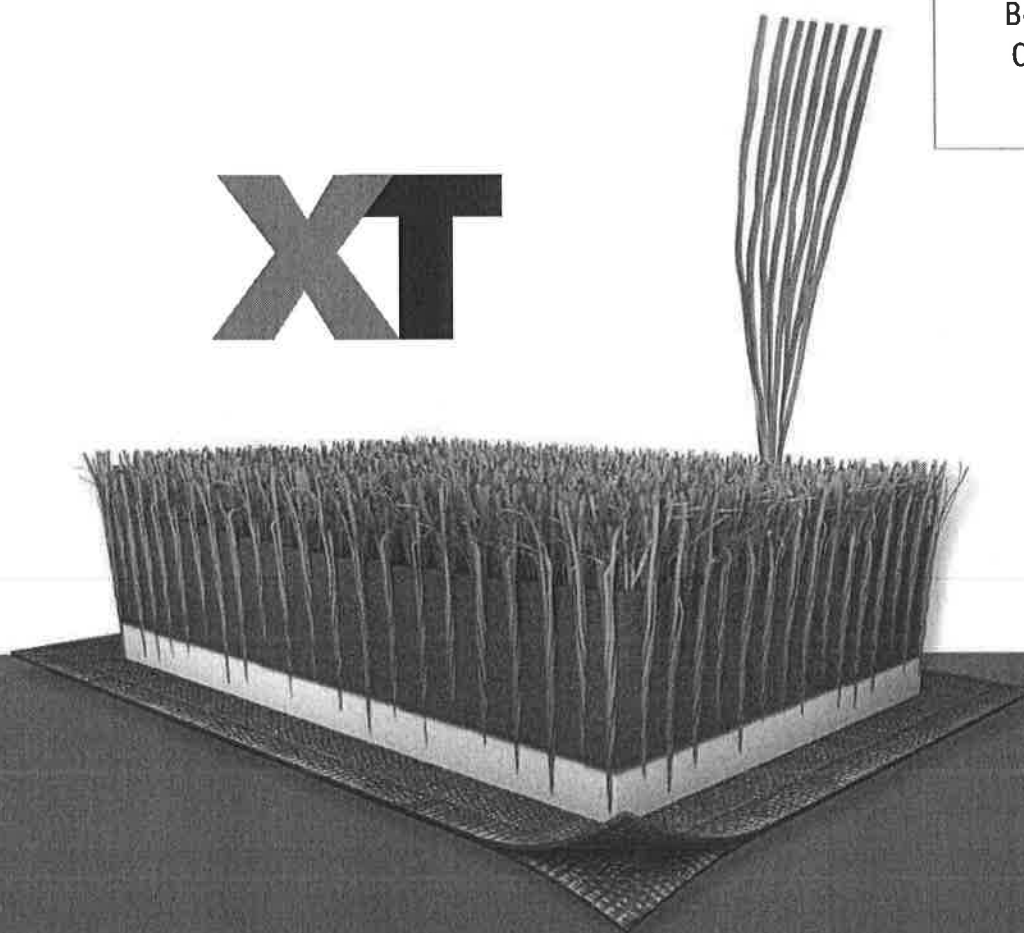
FieldTurf®

FIELDTURF

XT

Best in
Class.

XT



FieldTurf®
A Tarkett Sports Company

THE ULTIMATE
SURFACE EXPERIENCE



Best in Class.

The XT system features a resilient yet soft slit-film fiber with proven long-term durability characteristics and an exceptional ability to encapsulate infill. The fibers are tufted into a two-layered durable backing. The system is then filled with two distinct layers of infill: first a stabilizing layer of silica sand is brushed into the fibers, followed by a layer of recycled rubber granules. The system is designed to deliver a long lasting, high performance surface for a variety of sports.

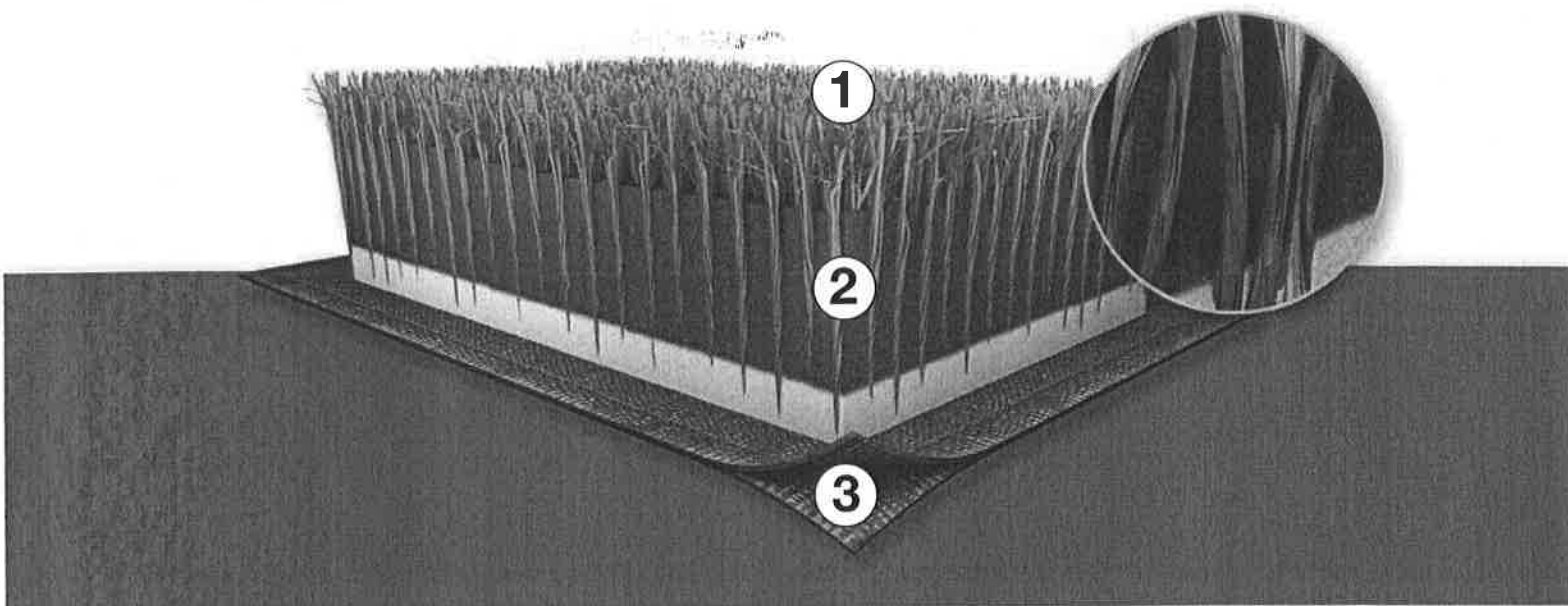


Durability without compromise. *It's part of FieldTurf's DNA.*

- Slit-film fiber features excellent wear resistance and durability
- Great for small fields and mini-pitches
- Ideal for high usage areas
- Ballast layers of sand and top layers of rubber infill for world-class performance

FieldTurf XT	XT-65	XT-57	XT-50
Pile Height:	2.5"	2.25"	2"
Pile Weight:	36 oz/yd ²	33 oz/yd ²	30 oz/yd ²
Total Infill Weight:	7 lbs+ /ft ²	6 lbs+ /ft ²	5 lbs+ /ft ²
Total Product Weight:	1064 oz/yd ²	917 oz/yd ²	770 oz/yd ²





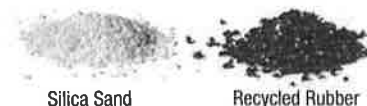
① XT Fiber

FieldTurf XT uses an engineered technology consisting of specially designed slit-film fibers that are fibrillated to encapsulate infill and provide a grass-like appearance. XT fibers have withstood thousands of cycles of testing. They are very durable, yet soft fibers that were designed to resist matting.



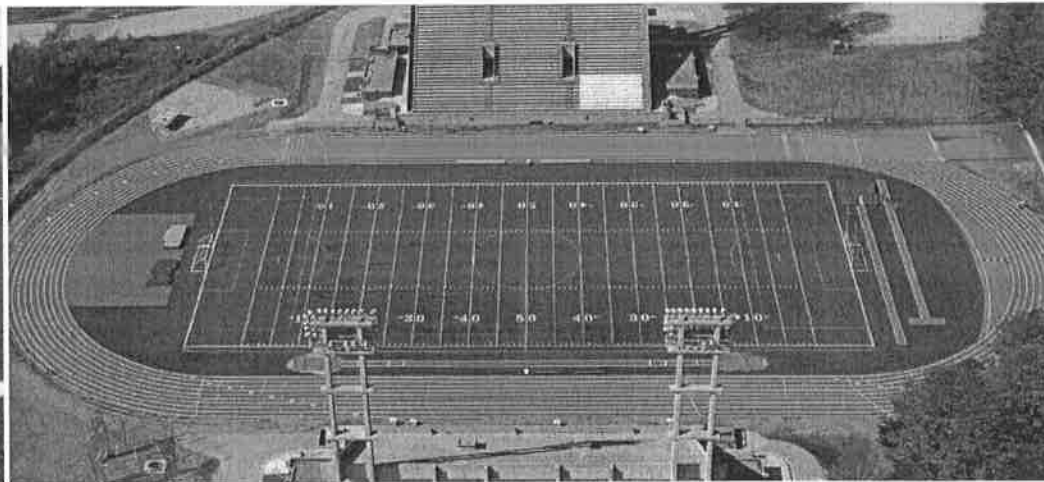
② Two-Layered Infill

FieldTurf XT features a two-layer infill comprised of ballast layers of sand and top layers of recycled rubber granules for proper shock absorption and world-class performance.



③ Turf Backing

FieldTurf XT systems feature a dimensionally-stable backing that is coated and perforated at FieldTurf's manufacturing facility. The result is an exceptional tuft bind strength that others cannot consistently achieve, along with excellent drainage characteristics.



Best in Class.

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PRODUCT
TECHNICAL
SPECIFICATION

XT

Slit-Film 2.25"

Property	Value	Units	ASTM
Product Stock Code	XT-57 EcoSense		
Pile Yarn Type	UV-resistant polyethylene		n/a
Yarn Structure	Slit-Film		n/a
Yarn Denier	10800	Denier	D1577
Tape Thickness	130	Microns	D3218
Pile Height	2.25	inches	D5823
Pile Weight	33	oz/yd ²	D5848
Primary Backing Weight	7+	oz/yd ²	D5848
Secondary Backing Weight (Perforated)	16+	oz/yd ²	D5848
Total Carpet Weight	56	oz/yd ²	D5848
Stitch Gauge	3/4 inch centers		D5793
Tuft Bind	8+	lbs/force	D1335
Grab Tear Length	>200	lbs/force	D5034
Grab Tear Width	>200	lbs/force	D5034
Pill Burn Test	Pass		D2859
Impact Attenuation (Gmax)	<200	gmax	F1936
Water Permeability	>40	inch/hour	DIN 18-035
EcoSense EPDM	3	Lbs/ft ²	
Sand	3	Lbs/ft ²	
Total Product Weight	920	oz/yd ²	

Variation of +/- 5% on above listed property values is within normal manufacturing tolerances

Issue Date: 4/3/17



BUILDING THE PERFECT FIELD

FIELDTURF INSTALL S.O.P. MANUAL

FIELDTURF.COM

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INFILLING

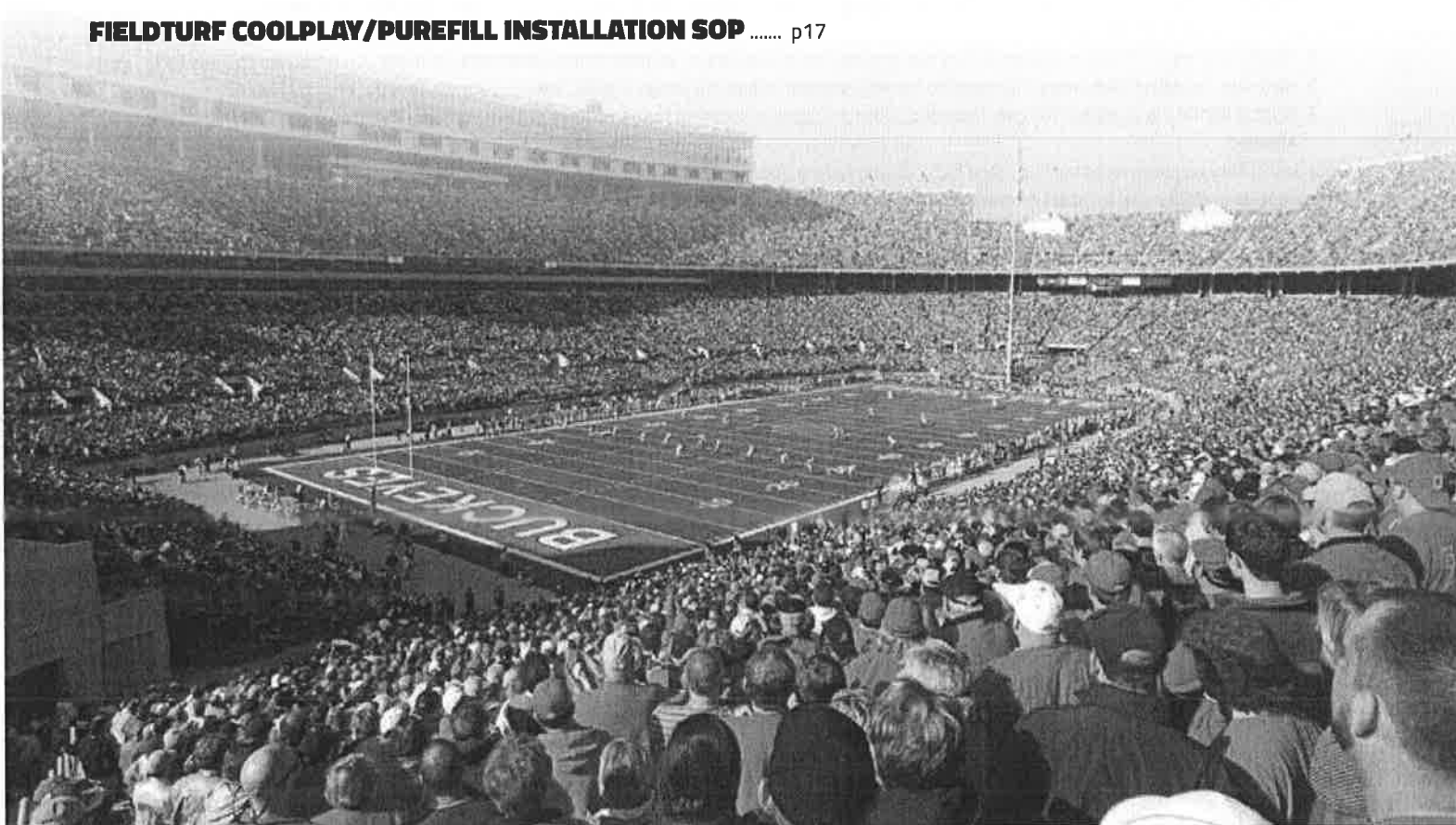
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OVERVIEW

This installation plan is created to provide a quick summary of the main activities of a FieldTurf installation. It provides details on procedures and guidelines for a quality FieldTurf installation.

PRE-INSTALL

1. Site Visit

a. Installer meets with project owners, construction managers (CM) and the general contractor (GC).

(All installation staff on site will wear FieldTurf-branded clothing and install project-specific signage to brand the site.)

- i. Obtain Project Contact Names, Phone Numbers.
- ii. Secure Spot for Equipment Trailer
 1. Preferably near the field and/or the staging area.
- iii. Secure Staging Area for Bulk Materials and Infill Mixing
 1. Secure a staging area that is nearby and one that ideally has pavement and will last for the duration of the project. Ideally, a paved "D" area or one side of a track is sufficient. If these are not available, locate the nearest paved surface with approximately 10,000 square feet for a regular 80,000 square foot field.
 - a. Determine if site has enough room for bulk sand and bagged rubber.
 - b. Determine if the site has asphalt that the GC will allow us to use for bulk sand.
 - c. Determine if trench plates for bulk sand will need to be rented by installer. In lieu of trench plates, plastic or filter fabric can be used.
 - d. Determine if dump trucks can access the bulk sand staging area without creating any damage FieldTurf may be liable for.
 - e. Inspect and take pictures of your surrounding area especially your staging area and any com boxes before turf installation starts. This will insure FieldTurf will not be liable for previous damage.
- iv. Secure Field Access Point from Staging Area
 1. Make sure that access to the field from the staging area is unobstructed. If there is a fence, get a key from the owner.
- v. Assess any Logistical Restrictions
 1. Note if and which parking spaces on or near the site are available to FieldTurf. Note which parking areas are off limits to FieldTurf.
 2. Note any sensitive site areas that need to be protected or avoided such as a track, lawns, curbing, fences, etc.
 3. Note if lighting is available for use if needed. Note any special working hours or days of the week and if extended hours (night) are allowed.
- vi. Note any safety requirements such as hard hats, boots, safety glasses, long pants, etc.
- vii. Determine availability and location of drinking water, porta-potties and dumpsters.
- viii. Create a detailed set of directions to the site and recommended parking areas.
- ix. Determine nearest locations and directions for lodging, miscellaneous material suppliers (Home Depot, Sears), hospital, eating establishments, etc
- x. Take pertinent digital pictures of site, especially staging areas, access points and any pre-damaged areas.
- xi. Ensure that COC will have to be signed once field is complete, set tentative time.

b. Creates Initial Installation Schedule

- i. It is vital for the Installer to be given as much prior notice of any impending installation.

c. Confirms Tentative Base Completion Date

- i. WIP call attendance is required for base completion dates.

d. Confirms Staging Area Availability

e. Schedules Material Delivery Dates for Carpet and Rubber.

2. Crew Arrival

a. All crew members are required to wear FieldTurf branded shirts or safety vests

b. Lead Installer will Supply Crew with Directions to Site

- i. Find directions to the job site.

c. Installer and CM Review Job Specifics

- i. Installer will review the project checklist with the CM.
- ii. Pay particular attention to safety regulations, restriction on work hours and other special requirements of the Owner and/or General Contractor.
- iii. Lead Installer complies with local noise abatement

d. Installer Holds Crew Meeting Prior to Work Commencement

- i. Cover safety procedures, requirements and emergency phone numbers, and any other special project requirements.
- ii. The Installer is responsible for assigning work tasks involving equipment to crew members who are properly trained in the safe handling of the equipment. Crew members should be instructed in the safe handling of materials and equipment. Crew members should be instructed not to handle certain materials and equipment unless directly instructed to do so by the Installer.
- iii. Review any special events (for example: change orders; problems with delivery, quality, workforce or equipment, etc.; accidents) that need to be handled. Any problems handled verbally with a third party should be documented in a letter/transmittal to that third party and a copy of the communication sent to the Project Manager.

e. Requirements

- i. A valid driver's license is needed for anyone driving a vehicle on any site.
- ii. PPE (Personal Protective Equipment) is required.
- iii. Proper dust masks are suggested.
- iv. Certification on all rental equipment.
- v. First Aid/ Safety Certifications required.

3. Rental Equipment

Installer assesses equipment needs based on scope of installation work, reserves rental equipment and creates equipment rental schedule.

- a. Installer is responsible for confirming equipment delivery dates with rental agent and/or adjusting equipment delivery dates based on any installation schedule changes communicated by the Installation Manager.
- b. Ensure that crew is certified in the use of rental equipment, this can be done through the rental company. This will ensure a safe work area. The installer is responsible for track protection as well as any areas traveled on or across during installation. It is especially important to provide protection from dumpsters in the form of a wooden barrier between the legs and the surface they rest on.

4. Material Review

a. Check Materials Sent vs. Recipe

- i. Compare the amount of sand sent to the recipe amount, review the amount of sand sent in the mandate to the infill recipe for sand. Bring any discrepancy to the Project Administrator's attention.
- ii. Compare the amount of rubber sent to the recipe amount. Review the amount of rubber sent by sieve size and type (for example: 10-14, 14-30, cryogenic vs. ambient) in the mandate to the infill recipe for rubber. Bring any discrepancy to the Project Administrator's attention.
- iii. When the Roll Layout section of FieldTurf Installer Mandate is available, check the following:
 1. Check square footage of carpet ordered to ensure the proper amount is received.
 2. Check to ensure that the entire field surface is covered by a roll per the layout. If a section is not covered, check to see if FieldTurf has made a note on the layout that the section is to be covered with extra material from another panel. For indoor fields for example, ensure there is enough additional carpet to cover all playing surfaces, including goal areas.

3. Also check what unused turf pieces are salvageable (at least 15' by 15'). If any are salvageable, notate those pieces clearly on the roll layout and mark the roll layout sheet with the words "Save these Pieces".

4. Bring any discrepancy to the Project Administrator's attention.

- i. Documents to be provided with every close out job package.

b. Review Special Field Markings from Work Order

- i. Inlaid/Tufted Fields

1. For inlaid lines or logo or both, review FieldTurf installer mandate roll layout to ensure that all inlaid markings on the roll layout are consistent with the details of the field markings sheet and that the inlaid markings on the field marking sheet are also shown on the roll layout. Bring any discrepancy to the Project Administrator's attention.

c. Review any Special Instructions concerning "Head Seam" Construction

- i. Note if Mandate calls for head seams to be sewn or glued. If the Work Order does not specify whether the head seams should be sewn or glued, the installer will have discretion to sew or glue.

d. Note Any Special Delivery / Work Hours

Note any special delivery routes through neighboring towns paying particular attention to weight restrictions. Note any special working hours or days of the week and if extended hours (night) are allowed. Ensure that the detailed installation plan takes these constraints into consideration.

5. Field Layout

a. Use Critical Starting Points from mandate to map out the field.

- i. Locate and stake the center of the field.
- ii. Locate the centerline points on the sides of the field. Mark these points either with permanent marker on the concrete curbing if available or use spikes or nails.
- iii. Locate the four corners of the field and extend the perimeter lines going through those points to the curbing and mark the curbing or use spikes or nails.
- iv. Locate the centerline, end lines, and sidelines or any other important points and spray paint.
- v. If baseball or softball field, ensure marking for foul lines and bases are indicated.

b. Confirm Critical Starting Points

- i. If the general contractor or engineer has given the critical starting points, confirm their measurements before initiating roll layout. Bring any discrepancy regarding starting points to the general contractor or engineer before proceeding. If not resolved in a timely fashion, contact the Project Administrator.

c. Mark Panel Locations

- i. When laying out the sidelines, mark the correct location of each panel by using spray paint with the appropriate panel numbers.
- ii. Verify FieldTurf limits.

Never assume marking provided is correct, ensure these are verified by the installer.

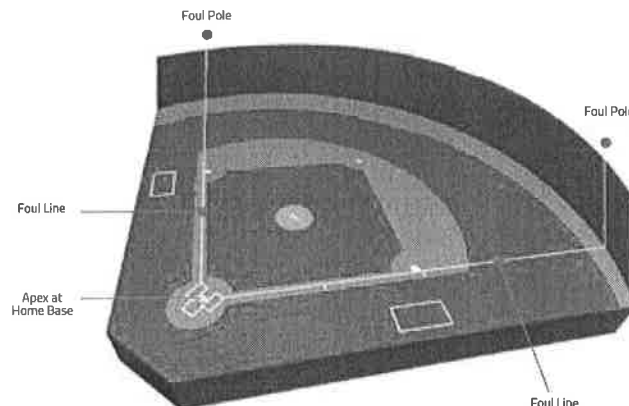
d. String Lining Base

- i. The Installer will string line the entire base, this should be done with the CM or GC. The field should be split in 1/2 and should be stringed every 6' from curb to crown. Follow what is outlined in the project specification. If none was provided, tolerance is 1/4" in 10'. If there is a discrepancy, indicate by spray painting 0 if area is low and + if area is high. These will need to be taken care of by the GC prior to installation.
- ii. Ensure to follow GC grade pattern on fields with multiple grade plans.
- iii. Ensure pictures are taken to avoid later blame.

e. String Lining examples specific to field

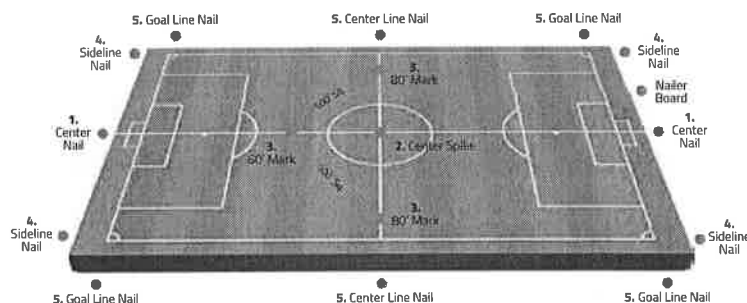
BASEBALL

1. Set string line on both 1st base foul line and 3rd base foul line from the apex point of homeplate to outside of foul poles in out-field (this gives perimeter and square of baseball field).
2. All other measurements are based upon these perimeter points.



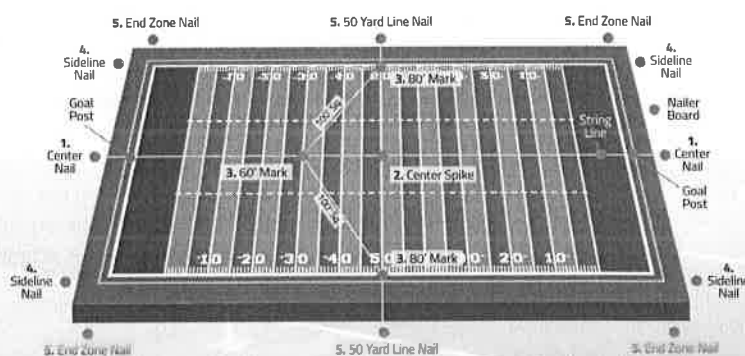
SOCCER

1. Set nail in nailer board at center of each end of field, splitting difference from sideline to sideline. Attach stringline from nail to nail up center of field (if permanent Soccer anchors are installed in base, use those to establish center point).
2. Find the center of field by measuring between center nails from end to end, set spike nail.
3. Use "3,4,5" method to square from center spike nail to establish center line (see 3,4,5 method in the diagram). Run string through square points to nailer board, set nails to establish center line of field.
4. Establish sidelines by measuring half of the distance shown on the mandate (Soccer fields vary in measurement), left, and right from center nail set nails in nailer board on both ends of field to establish 4 corners of field. String and paint sidelines.
5. Establish goal lines by setting nails in nailer boards half the total distance from the center line nail end to end on both sides.



FOOTBALL

1. Set up stringline from center of goal posts (set nails in nailer board behind goal posts).
2. Locate and mark center of field between goal posts using a spike nail (this establishes the center point on the 50 Yard line).
3. Use "3,4,5" method to square from center spike nail to establish 50 yard line side to side (measure 60 feet from center spike nail towards either goal post, mark position with spike nail). Measure 80 feet from center spike nail towards left and right sidelines, use second tape to measure 100 feet from established 60 foot spike nail, where the tapes cross mark with spike nail. Run string through square points to nailer board, set nails to establish 50 yard line.
4. Establish sidelines by measuring 80 feet left, and right from center nail behind goal posts, set nails in nailer board on both ends of field to establish 4 corners of field. String and paint sidelines.
5. Establish endzone lines by setting nails in nailer boards 180 feet from 50 yard line nail end to end on both sides.



INSTALLATION

6. Arrival of Materials

There are steps to ensuring proper receipt of materials. First, ensure that the product and quantity are the same as in the mandate. Then make sure the product and quantity received matches the bill of lading. When the bill of lading reaches FieldTurf, it will be used to match to the invoice.

a. Arrival of Carpet

- i. The Installer will have scheduled the timing of the delivery of the carpet.
- ii. Check the fiber height. Uncover a portion of the first roll immediately after it comes off the truck and measure the pile height and compare to the mandate product pile height. If there is a discrepancy, immediately contact the Project Administrator.
- iii. Match the bill of lading to the carpet ordered. There are a series of numbers that will match the bill of lading to the numbers on a label attached to the carpet. As each roll comes off the trailer, put a checkmark next to the corresponding roll on the bill of lading. Number each roll with spray paint – ensure that this number corresponds to the roll layout. If available, unload the carpet next to the field, preferably on the visitor's sideline, and line up the carpet rolls according to the roll layout. If field access is not available, stack carpet rolls in the designated staging area. Do not stack the carpet more than two rolls high. Stack rolls so that the spray-painted numbers face the field regardless of where the carpet is stored.
- iv. Make note of any discrepancy on the bill of lading, have the trucker initial the change on the bill of lading, and call the Project Administrator immediately. Discrepancies may include:
 1. a carpet tag indicating an incorrect project location;
 2. any item (carpet rolls, backing, glue, etc.) listed on bill of lading and not delivered or any quantity delivered other than specified on bill of lading; and
 3. obvious damage to any item.

b. Arrival of Rubber

- i. Use sieve cans to ensure rubber is in conformance. Installers are responsible for material Quality Control prior to installation.
- ii. The location of the rubber bags is crucial. Ideally, bags should be stored in the staging area and not moved a second time.
- iii. If 10-14, 14-30 rubber is to be used at the same site, mark the side of the bags that face the forklift with the corresponding sieve size with spray paint. Group sieve sizes together.

c. Arrival of Sand

- i. Use sieve cans to ensure sand is in conformance. Installers are responsible for material Quality Control prior to installation.
- ii. Bagged Sand
 1. Match the number of bags on the bill of lading to the mandate. Then match the number of bags delivered to the bill of lading. Note any shortages or overages on the bill of lading and call any discrepancy to the attention of the Project Administrator. Notate the number of damaged bags, take photos and forward to FieldTurf.
 2. Store this in the same area as the rubber. If inclement weather is expected, cover sand bags with secured tarp(s).
- iii. Bulk Sand
 1. Bulk sand should be unloaded in the predetermined staging area where the mixing or the loading of the top dresser / spreader will occur. This area should be kept clean of contaminants. Keep the sand dry at all times – use secured tarps if necessary.
 2. Note the tonnage of sand received on each truck. Keep a running tally of the tonnage of bulk sand and note any discrepancies to the sand tonnage in the mandate and call any discrepancy to the attention of the Project Administrator.
 3. Make sure there is drainage protection around sand.

d. Special Deliveries

- i. Make sure the bill of lading matches the number of pieces being delivered. Call any discrepancy to the attention of the Project Administrator. Check maintenance equipment for damages upon delivery.

7. Assemble Field

a. Layout Panels and Sew.

- i. Roll out the first center panel green side up. Make sure the panel number on the roll matches the panel number on the roll layout for the side of the centerline that you begin with. Start unrolling the first roll.
- ii. To ensure that the inlaid lines are 15 feet (measured from center fiber row from mid field to center fiber row of the yard line being measured) apart, the actual distance to check before sewing a panel is $14' - 11 \frac{1}{4}"$ – this leaves $\frac{3}{4}"$ for the seam to be placed. The panel must be verified in 5 locations. Measure twice and sew once.
- iii. Roll out second panel green side down. Make sure panel is measured to ensure proper width. Ensure carpet pile is running in the same direction.
- iv. Using sewer's discretion panel must be lined up properly to ensure a good sew. Make sure flap is free of stone or debris.
- v. Both cart and hand held sewing are acceptable.
- vi. Installer must review spec to verify if single stitch is required.
- vii. Sewn seam must be no more than $\frac{3}{4}"$ above first stitch $\pm 1 \frac{1}{4}"$.
- viii. Prior to flipping panel the base may need to be raked, panel must be flipped ensuring base is not disrupted in any way and seam must be rolled using leap frog method and a 2 ton roller.
- ix. All panels must be stretched to ensure panel is tight with no slack.
- x. Once two panels have been sewn these should now be anchored 12" from white line on both sides. All spikes need to be identified to ensure later removal.
- xi. Continue rolling out and sewing panels.
- xii. Constant measuring of field with a steel tape measure must be done.
- xiii. If the field requires additional sideline panels, trim interior panels to size, sheep shear, sew head seam, and sew sideline panels. If head seam is to be glued, glue the head seam after sewing the sideline panels. The Installer will follow the specs instructions, if any, regarding sewing or gluing head seams. If no special instructions are given in the specs, the Installer has discretion to sew or glue head seams.
- xiv. At the end of each working day, all panels must be weighed down and secured. Use sand bags, turf rolls, rubber bags, etc.

b. Field Specifics

- i. Center Logo
 1. Note finish dimension of logo from Mandate and/or special site plans. Make sure the logo delivered matches the logo on the Mandate/Site Plans including dimensions, colors, font, general shape and design.
 2. Ensure a copy of the lay-outs is constantly on site during install.
 3. Make sure the logo faces the specified direction from the drawings or plans (if not available, check with site supervisor).
 4. Double check the backing of the logo to make sure seaming edge is bare (should have 2") for proper installation. Note any defects.
 5. Once the logo has been properly set per mandate/site plans, the logo must be signed off by the customer to ensure quality customer service.



6. Shearing or cutting out are both acceptable. When shearing out the logo, it is preferred to keep a 4" edge for the gluing process. To ensure the placement of the logo, you must nail it down to avoid any drastic movement during shearing and cleaning up loose fiber.
 Note: you may cut out the logo if you choose to as long as a 4" flap is kept to glue logo to.
7. The tolerance between all inlays is no more than 1/2". In other words there should be no gap larger than 1/2" between any glued inlay.
8. Begin gluing the logo. Be sure to push the glue to the very edge of the logo. Do not pass the edge of the logo as this will cause fiber melting. Periodically check the edges to ensure proper bonding.

ii. End zone Logo

1. Same as the center logo directions above. Make sure each letter matches mandate specifics regarding color, size, direction, etc.
2. Cut the colored carpet to fit the drawn lines and glue the logo following the previous directions. There should be no gap larger than 1/2" between the colored carpets.

iii. Other Logo or Special markings

1. Proceed as with other logos.

iv. Inlaid Lines- Sport specific

1. Refer to the lay-out to determine what sport and color and type of lines to inlay. Keep in mind the dominant sports' rule of thumb: Field hockey uses 3" width lines while baseball, softball, soccer, football, lacrosse, and rugby use 4" width lines.
2. ALWAYS refer to lay-out for proper field dimensions and line widths. Measurements may be different than previous fields.
3. When shearing against the grain you must use a C Channel following your string line to ensure proper shearing and gluing.
4. Ensure the grain line of carpet is going in the same direction as the rest of the field.
5. Ensure the colored carpet being used for the lines is the same height as the rest of the field. There should be no gap larger than 1/2" between the colored carpets.
6. Shearing and gluing process is the same as all glued inlays.



v. Inlaid Numbers & Arrows

1. Refer to lay-out for proper field dimensions and/or colors.
2. Ensure the colored carpet being used for the numbers and arrows is the same height as the rest of the field.
3. Ensure the numbers' and arrows' grain of carpet is in the same direction as the rest of the field. There should be no gap larger than 1/2" between the colored carpets.
4. When cutting numbers and/or arrows, center templates on the back of the stock roll to ensure that the edges of the templates are to be cut in between stitch rows.
5. When shearing out each number, using a stencil for quality, you should keep the shears tight to the edge of the stencil to ensure a 1/2" or less glue gap.
6. When cutting a number out using a stencil, it is best practice to keep each cut tight to one another and to always cut each number individually. Do not use paint to trace stencils since the paint oils cause difficult glue transitions.
7. It is best for the field and glue seams to use sand to keep the turf from being embedded in the glue.



vi. Inlaid Hash Marks

1. Shearing is the approved method. Cutting of field should be limited. All sheared fibers must be picked up.
2. Refer to lay-out for proper field dimensions. Measurements and dimensions vary between high school, college, and professional sports.
3. Straight edge or guide must be used to ensure accuracy while shearing.
4. Ensure the colored carpet being used for the hash marks is the same height as the rest of the field.
5. Ensure the hash marks' grain of carpet is in the same direction as the rest of the field. There should be no gap larger than 1/2" between the colored carpets.
6. While gluing hash marks and soccer, lacrosse, football extensions, etc. you must use enough glue to cover the entire inlay.

vii. Shearing

1. When you shear out bits or rows, make sure you put the same number of bits or rows back in! It is ok to shear out either 5 bits replaced with 5 bits, or 4 bits replaced with 4 bits.
2. When shearing use "3-in-1" from Home Depot or similar product and apply before shearing begins then as needed to keep the shears running properly. WD 40 is not a proper lubricant.
3. After every shear the sheared fiber must be cleaned up prior to gluing.



viii. Gluing

Setup Instructions

1. Proper safety shall be taken during gluing process. Ensure a safety burn kit and eye wash kit are on site. Make sure proper PPE is supplied (knee pads, certified eye and hand protection, long sleeve shirt). Equipment be in compliance with OSHA requirements.
2. Each individual glue team must be equipped with working and calibrated infrared heat temperature sensor. This should be used at all times during the gluing process.
3. Confirm glue machine is clear of any debris prior to start of project. Contaminates can have an adverse impact on the performance of the chemistry of the glue.
4. Optimal glue machine pot temperature in typical ambient conditions (air temp: 60°-95°F) should be set to 340°F with the nozzle or applicator temperature set to 320°F.
5. In situations of abnormally extreme conditions (very warm or very cool), pot and nozzle temperature may be adjusted in +/-10°F increments at the discretion and judgment of the installer but should never be set below or above min/max set point temperatures (see range below).

Min/Max Set Temperatures

- a. Optimal puddle temperature at the time the inlay is placed and set is 295°F.
- b. Absolute minimum temperature an inlay will set correctly is 250°F.
- c. Maximum pot temperature should under no circumstances exceed 380°F.

Application Process



6. Using glue gun nozzle, apply in a 4"x12" pattern along the perimeter of the sheared section in a rectangular box then immediately fill box with glue. Ideal application rate is 0.66lbs/sq.ft.



8. Place inlay down and using fingers, set the 4x12" section. Continue to verify puddle temperature does not deviate from min/max range (max time available to set will vary depending on air temperature and ambient conditions).



10. If necessary, place angle irons to hold down edges upon completion of the rolling process. This should be done no more than 10min after inlay has been set. Additionally, apply a thin 1/8" application sand to assist in holding down the inlay while preventing trapped fibers.



7. Measure puddle temperature with thermal IR gun and confirm it at or near optimum temperature prior to setting inlay.



9. Roll the inlay with hands. Ensure glue has been pushed firmly and has come up and over the edge of the inlay a minimum of 1/8". This is crucial to verify a proper bond will hold for the life of the installation and prevent infill infiltration.

11. Next day, once inlay has correctly cooled, perform a series of pull tests by gradually tug on the inlays at random location to ensure adhesion. This should be performed prior to infill. The optimum pull strength is 5-15lb-f/in.

INFILLING

8. Infill Process

a. Apply Layered or Mixed Infill

- i. Tape off slot drains to prevent contamination.
- ii. The recipe that comes with the Mandate recommends mixing the infill prior to infilling. Determine the required mixing amounts of sand and rubber and proceed with mixing.
- iii. Ensure that mixed infill is not contaminated during mixing and kept dry. The mix must be uniform to avoid an uneven playing surface.
- iv. There are instances where mixing is not an option. When layering is required, it must be done in a uniform manner to avoid an uneven playing surface. Be sure to follow mandate specified layer application as this is project specific.
- v. 1 pound [1/8"] of sand must be at the bottom of every FieldTurf field per square foot; normally two layers/passes.
- vi. Ensure entrance to field is protected by a layer of Mirafi filter fabric (min 5 millimeters), salvaged Turf, and finally plywood (in that order).

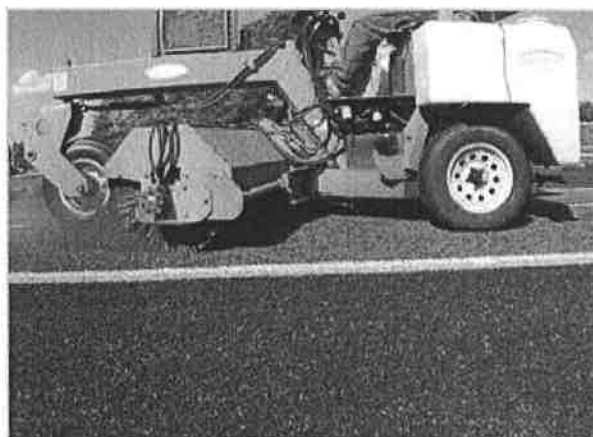
INFILLING THE FIELDTURF SURFACE

Preparing the fiber

Prepare the field for the application of the first layer of sand infill by brushing up the grass fibers. This process can be done with several passes of a "LayMor" rotary brush unit or a similar approved rotary brush unit, or the Groomer Model HD-15 unit. It is important to "brush up" the grass fibers in order to assure the proper application of the first layer of sand infill.

By rotating the brush against the direction of the laid down grass fibers, drive the LayMor unit slowly backwards in the same direction as the laid down grass fibers. This will allow the rotating brush to "pick-up" the fibers from the carpet backing without fibrillating the grass fibers.

Once the grass fibers have been brushed at least twice and properly picked up, the field will be ready to accept the first layer of sand infill



APPLYING THE 1ST LAYER OF SAND INFILL

- On Slitfilm applications, load the spreader unit with the designated sand infill, setting the feed to the light application setting. The spreader should be driven at medium speeds. The spreader will evenly distribute the sand infill in thin layers to avoid "matting down" the grass fibers.
- The spreader should be driven up and down the field in a straight line without leaving a space or an overlap between passes, the marks on the field may serve as a guideline to ensure this.
- LayMor unit or approved rotary brush machinery should be operated after the spreader in order to ensure that the sand infill is evenly distributed over the entire surface. Note: An all poly brush must be used. '50/50', half poly/half steel, is not approved for use.
- On a Slitfilm field, when operating the LayMor unit, caution should be taken to not rotate the brush excessively to avoid fibrillating the grass fibers.



PLACING INFILL MATERIALS

APPLYING INTERMEDIATE LAYERS OF INFILL

- Once the infill has been placed on the field, operate the LayMor rotating brush to even out and brush the infill into the grass fibers.
- The following operating process should be practiced when applying the infill;
 - When applying the first 25% to 50% of the total sand and rubber infill, rotate the brush of the LayMor unit against the direction of the laid down grass fibers while driving the LayMor unit backwards in the same direction as the laid down grass fibers.
 - This will avoid the fibers from being twisted together. Should the grass fibers be twisted, it will result in an uneven distribution of the infill between the fibers thus creating voids and causing more settlement of the infill.
 - Depending on production factors and climatic conditions, the grass fibers may be straightened up before 50% of the infill has been applied.
- It is important to alternate the direction of the infill operation between layers of applied blended infill. However, this is only after 50% of the infill has been applied.
- The depth of the layers of the applied infill should be monitored constantly in order to control the overall depth of the infill and avoid overfilling.
- High spots may appear resulting in an uneven distribution of the infill. Additional grooming will be necessary to ensure an even field surface.
- After rolling use water system on LayMor to decrease static and help settle the FieldTurf field.

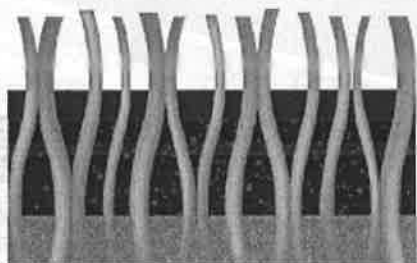


Sand Infill Mix

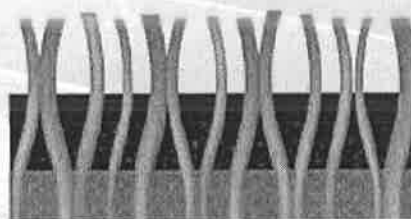
FINAL GRADE

- The final grade (level) of the infill should be verified prior to applying the final layer of the all-rubber infill, this could be done by practicing the following:
 - Take constant depth readings of the layers of the placed infill. A minimum of twenty (20) readings should be taken across the field in order to identify high and low spots on the field.
 - The rotating nylon bristle brush of the LayMor unit should be perfectly level, be in good condition, and clean of any stains or debris.
 - The rotating brush should always be set a $\frac{1}{2}$ " below the field surface. Prevent the rotating brush from sagging and dropping down beyond the field surface. Once the rotating brush has been set hydraulically at the correct level, lock the brush in place to prevent possible vertical displacement of the brush.
- As the LayMor unit is driven around the field a slight amount of the infill will be displaced indicating that the required level of the infill has been reached. Existing high and low spots will be evened out. This operation should be continued at a slow to medium pace, crisscrossing the entire field in both directions until the infill is evenly distributed throughout the entire field.
- It is imperative to ensure that the infill is evenly distributed and at the required level throughout the entire field prior to applying the last layer of the all rubber infill.

There are no exceptions to this procedure to ensure the superior performance and drainage characteristics of the FieldTurf field.



INFILLING - 2.5" Turf = 1.75" Infill Height



INFILLING - 2" Turf = 1.25" Infill Height

FINAL TOP LAYER OF RUBBER

- The purpose of applying the final layer of the all rubber infill is to provide a forgiving and even playing surface for athletes.
- Since the last layer of the all rubber infill is a thin layer, adjust the gate setting of the spreader unit between 1 and 4 depending on the depth and rate of application of the all rubber infill.
- When applying the all rubber infill, constantly measure the depth of the infill by taking a minimum of twenty (20) readings of different locations to ensure that the infill is applied evenly everywhere on the field.
- Prior to applying the final layer of rubber infill, verify that the stockpiled rubber quantity is sufficient to meet the required infill to be placed as stated in the mandate.
- Make sure to set the correct gate opening in the spreader in order to spread the final layer of rubber infill in one pass.
- When placing the final layer of the all rubber infill in the field certain precautions have to be taken such as:
- All required adjustments to the operating equipment must be done and verified prior to the actual application of the final layer of infill. No exceptions.
- It is important to avoid the buildup of static electricity since particles of the rubber will migrate to the tips of the exposed grass, resulting in the blackening of the field. A drag brush equipped with nylon brushes will generate static electricity. To eliminate this, lightly sprinkle the field with a fine mist of water after placing the infill. Morning dew will also help dissipate static electricity.
- If the LayMor unit is being used for infill application, fill the LayMor tank with water only and spray a mist of water over the entire field as the LayMor is being displaced. This will also help eliminate the build-up of static electricity.

CAUTION

- Once you have “dropped” the final layer of rubber on the surface, there is no need to have the rotating brush rotate on the field. All that is required now is to drive the “LayMor”, put the brush at an angle but not rotating, with the brush just lying flat on the field. The brush will turn slightly as you drive around but it will agitate the fibers just enough to allow the infill to drop in between the fibers as it should. This could also be done with a drag brush, preferably a drag brush with natural bristles, in order to not create static all over the field. However, should you have a drag brush with a nylon or plastic bristle, it will most probably create static. The remedy to that is to spray the field with water after you are done or let the morning dew eliminate the static. This will allow the final layer of rubber to drop between the fibers.

9. Perimeter Attachment

The perimeter is normally attached after sewing.

a. Staples vs. Roofing Nails vs. Glue

- Glue is used when the edge detail is concrete or asphalt. This can either be troweled or sprayed, surface must be clean. Staples work very well with recycled curbing or pressure treated wood. If using roofing nails with recycled curbing, the nail length should be no more than 3/4". Longer nails take more pressure than the nailing gun and hoses can sustain. There is no compromise in the strength of using 1" nails versus longer nails. Nails and staples must be installed every 4" unless otherwise specified.
- Review spec to ensure proper method has been approved.
- Always use non-corrosive nails or staples.

b. Trimming Excess Carpet

- Before any carpet is attached to the curbing or edge detail, it must be trimmed. As with the fibers of the carpet, the distance between the carpet end and the edge detail should not exceed 1/2". In contrast, the carpet should never touch the edge detail if this detail is the recycled curbing or a similar shelf product. If the carpet touches the curbing, the fibers will bend and point towards the field making these fibers seem longer and thus will need trimming.

c. Attach Carpet to Curb

- If there seems to be a little slack in the carpet, use carpet kickers to tighten before fastening the carpet to the curb. Attaching the carpet to the curbing normally takes place when there is enough weight on the carpet to prevent it from shifting – the half-way point in the infill process is a good guide to do so.

CLOSING OUT

10. Site Clean Up

- a. Excess Carpet:** Green carpet that is not in excess of 15'x15' is tossed in the garbage. Colored carpet that is not in excess of 10'x10' is tossed in the garbage. Any carpet that is kept is to be neatly rolled, taped or tied and labeled accordingly unless architect specifies quantity amounts.
- b. Excess Sand & Rubber:** If excess sand and rubber are in a sealed non-leaking super sack, it is to be saved, you must inform the Project Manager. See mandate for appropriate attic stock applications.
- c. Cleaning Tracks Surrounding Fields:** Every precaution is to be taken not to damage an existing track and to prevent infill from falling into perimeter track drains. Drains need to be taped off or filled using 5/8" Backer Rod. Use an air compressor or something similar to remove the excess sand and rubber without causing damage to the track or drains.
- d. Cleaning Grass or Dirt Surrounding Fields:** Use an air compressor or something similar to remove excess sand and rubber being careful not to damage the existing grass.
- e. Pallets:** Pallets can be crushed in the dumpster provided by the installer.
- f. Carpet Cores, Carpet Scrap, & Plastic Wrapping:** Carpet cores and plastic wrapping can be discarded in the dumpster provided.

Special attention and meticulous attention to detail is always required on each and every job. Installation is the most important step in delivering on our promise to provide the most advanced, durable, highest quality synthetic turf playing field on the market. The care and dedication you put into each step of the installation process will be reflected for years to come as our customers and other potential customers visit and play on your field.

11. Quality Control (QC) Walkthrough

Walk the completed field and fill out the required field evaluation / quality control paper work.

12. Maintenance Demo

Prior to leaving site a demo of all maintenance equipment must be done.

13. Certificate of Completion (COC) & Close out Documents

Prior to leaving the site, the Installer should have the customer fill out the Certificate of Completion, Owner Training, Attic Stock, and/or Punchlist if applicable. The lead installer is also responsible for the completion of the Product Checklist and Field Evaluation. Once punch list items are completed and the Certificate of Completion is signed, the COC should be sent to the Project Manager. Make sure all close out documentation is received by the appropriate party. Ask your superintendent who tracks the close out documents for your region.

14. Calhoun Infill Samples

Prior to leaving the site, please ensure you send a completed copy of the "Calhoun Sample Information Form" as well as the following mandatory samples:

- i. (1) large zip lock of sand
 - ii. (1) large zip lock of "A" Rubber
 - iii. (1) large zip lock of "B" Rubber
 - iv. 1'x1' samples of each colored stock rolls
- b. Send the samples to:

Attn: RND Department
175 N Industrial Blvd N.E.
Calhoun GA 30701
United States



Infill Samples

FIELDTURF INDOOR INSTALLATION SOP

Fewer Than 50,000 Square Feet

Process

This installation plan is created to provide a summary of the main activities for a Fieldturf Indoor installation fewer than 50,000 square feet. It provides details on procedures and guidelines for a quality Indoor installation over concrete and 4mm pad over stone.

The most important process in achieving a proper Fieldturf Indoor Installation is to ensure the entire surface is glued down with Henry's 107 Asphalt Emulsion to a cured concrete surface or 4mm pad over stone.

1. Base Preparation over Concrete

a. Prepping Concrete base

- The concrete floor needs to be clean, flat and free of dirt and dust any dips or sags will need to be filled with self-leveling cement to ensure surface is level.

b. Applying emulsion

- The entire field will need to be adhered to the concrete using HENRY'S 107 ASPHALT EMULTION.
- This product is to be stirred and can be diluted to no more 20% water to help with the application to the concrete.
- **Coverage is 1 gallon per 100ft²**
- **Apply emulsion with a roofing brush or spray. Uniformly cover the entire surface to receive turf at the rate of 1 gallon per 100 square feet.**
- Entire surface must be 100% coated with the proper coverage ratio to ensure turf is installed over a tacky uniform membrane.

2. Dry time for indoor applications greater than 50 degrees Fahrenheit and less than 120 Fahrenheit is 6-24 hours.

3. Base Preparation over Stone

a. Prepping Stone base

The final grade of the finishing stone shall not vary from the specified grade by more than 1/4" from design grade, nor by more than 1/8" when measured under a 10 ft straightedge, in all directions. This tolerance is required over the entire field. The turf installation company shall not commence work until the base has been approved for compaction, tolerance to grade.

b. Installation of 4mm Amorim pad over stone

- Amorim 4mm pad is shipped to the site in 4' wide rolls and up to 150' lengths
- Lay rolls in the **opposite direction** of the turf panel layout
- Place rolls from wall to wall and end to end in all areas to receive synthetic turf
- Allow rolls to relax in ambient temperatures above 50 degrees Fahrenheit for approximately one hour or until sheet good products are level and flat to stone base
- Fit all areas of Amorim 4mm pad tight and void of any gaps in seams
- Trim the pad 1/2" away from all perimeter walls, columns, dasher boards, protrusions through the base, or any other fixed structure within the footprint of the turf area to be installed.
- After pad has been fully installed, follow Henry's 107 emulsion process.

FIELDTURF COOLPLAY/PUREFILL INSTALLATION SOP

PART 1 – Pre-Qualify the Field

1. Perform double ring infiltrometer on the base/flood test to ensure the base can accept at minimum 28 inches/hour.
2. Evaluate the slope of the field – if it is less than or equal to 0.5%, that is acceptable.
3. Review the base and site to ensure the field is not designed to “sheet drain”.
4. Determine whether any water flow is being directed onto the field by design. If yes, PureFill needs to be re evaluated.

PART 2 – Installation of CoolPlay Topdressing

1. Level the sand layer prior to installation of the CoolPlay granule.
2. Apply the CoolPlay layer and ensure field is leveled prior to applying surfactant.
3. Dilute the Beynon surfactant into water to recommended dilution rates and apply to the infill.
4. With a boomsprayer or a water truck, apply water to the fully infilled field with some pressure to settle the infill.

Dilution Rate

Amounts to use per field – dilution rate for maximum effectiveness is currently 1 part surfactant to 100 parts water (1:100). This works out to approximately 0.93 gallons for an 85,000 ft² field. It will need to be applied with a boom sprayer and we have assumed a coverage rate (per diluted litre) of ~240 ft².

FieldTurf CoolPlay S.O.P.

PART 1 – Pre-Qualify the Field

1. Perform double ring infiltrometer on the base/flood test to ensure the base can accept at minimum 28 inches/hour.
2. Evaluate the slope of the field – if it is less than or equal to 0.5%, that is acceptable.
3. Review the base and site to ensure the field is not designed to “sheet drain”.
4. Determine whether any water flow is being directed onto the field by design. If yes, CoolPlay needs to be re-evaluated.

PART 2 – Installation of CoolPlay Topdressing

1. Aerate the Mix Layer prior to installation of the CoolPlay granule with the FieldTurf Groomright, ensuring that the rotating stars and tines penetrate 1” into the infill.
2. Mix half of the CoolPlay with the last layer of ‘A’ rubber/sand mix (single lift) as a slight method of ‘stabilization’.
3. Dilute the Beynon surfactant into water to recommended dilution rates and apply to the infill.
4. Apply the remaining amount of CoolPlay as the top layer.
5. With a boomsprayer or a water truck, apply water to the fully infilled field with some pressure to settle the infill.

Dilution Rate

Amounts to use per field – dilution rate for maximum effectiveness is currently 1 part surfactant to 100 parts water (1:100). This works out to approximately 0.93 gallons for an 85,000 ft² field. It will need to be applied with a boom sprayer and we have assumed a coverage rate (per diluted litre) of ~240 ft².

NOTES:



NOTES:





STATE OF MONTANA
DEPARTMENT OF LABOR & INDUSTRY
★
CONSTRUCTION CONTRACTOR REGISTRATION UNIT

CERTIFICATE OF CONTRACTOR REGISTRATION

REGISTRATION No. 156033

FIELDTURF USA INC
7445 COTE DE LIESSE RD STE 200
MONTREAL, QC 4T1G2

Effective Date: Jul 05, 2015
Expiration Date: Jul 04, 2017

No Employees - May Hire Exempt Workers Only



Additional information on back.

Please notify this agency of any changes within 10 days.

References



**University of Montana
Softball Field**
Missoula, MT – 2014

**Field of Dreams Baseball
(4 Fields)**
Gillette, WY – 2014

**University of Utah
(3 Fields)**
Salt Lake City, UT – 2011

**Montana State University
Stadium Field**
Bozeman, MT – 2008

**University of Wyoming
Stadium Field**
Laramie, WY – 2013

**South Summit High School
Stadium Field**
Kamas, UT – 2014

**U.S. Air Force Academy
Indoor & Falcon Stadium**
Colorado Springs, CO – 2011

**Brigham Young University
Indoor Practice Field**
Provo, UT - 2003

**University of New Mexico
Baseball Field & Indoor**
Albuquerque, NM – 2012

**Big Piney High School
Stadium Field**
Big Piney, WY – 2014

**Colorado State University
(3 Fields)**
Fort Collins, CO – 2009

**Paul D. Bowlen Memorial
Center – Broncos Practice
Center**
Denver, CO - 2003

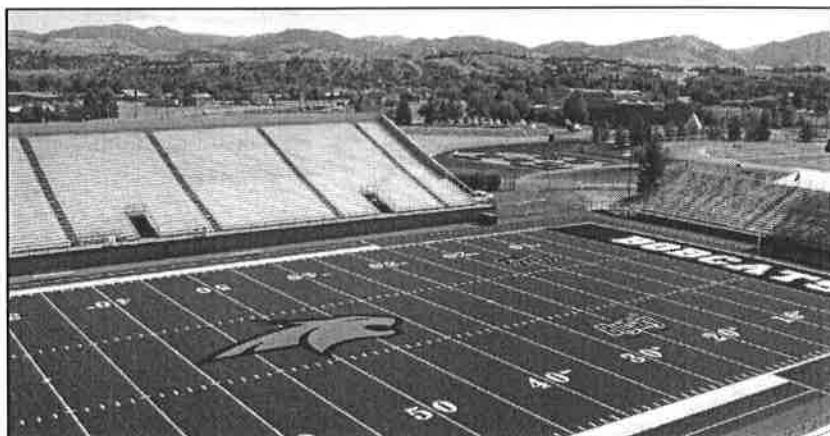


Denver Police Activities

References



**MONTANA STATE
UNIVERSITY**
CenturyLink Field
2012



**UNIVERSITY OF
NEW MEXICO**
Stadium Field
2008



**AIR FORCE
ACADEMY**
Stadium Field
2006



Your Project Team



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Andrea Wright

Customer Service Coordinator
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514.375.2609

RESPONSIBILITIES

- Ensure optimal product selection based on the sporting nature of the facility
- Provide overall value-added FieldTurf assistance to clients in the overall planning of their project
- Assist clients in the completion of the contractual process with FieldTurf headquarters

RESPONSIBILITIES

- Provide additional support to the Regional Sales Manager
- Oversee region for operational assistance
- Ensure Customer Satisfaction.

RESPONSIBILITIES

- Plan, direct, coordinate project and project personnel to ensure project progresses within scope, schedule and budget
- Manage and control the contractual process, distribute submittals, product data and samples for approval by the client
- Act as customer's point of contact from inception to completion

RESPONSIBILITIES

- Supervise the progress of the base work
- Provide guidance on FieldTurf recommended tolerances and specifications
- Verification and approval of base/drainage work

RESPONSIBILITIES

- Manage daily operations of onsite projects, including all aspects of turf installation
- Manage site inspection and materials examination
- Responsible for precise field dimensions and accurate layout of field markings

RESPONSIBILITIES

- Issue necessary closeout documents, specifically the field's warranty and maintenance guidelines package.
- Handle any potential issues with the field (equipment, repairs, general questions) should they arise
- Schedule GMAX and/or maintenance visits if required

Our Team

We have assembled an experienced team to oversee your project from start to finish. Here are your key contacts before, during, and after the installation is complete

FieldTurf Executive Team

Eric Daliere

President
edaliere@fieldturf.com

Eric Daliere joined Tarkett Sports from KKR Capstone where he has served as a Director for nearly 10 years. Eric had been focused on helping KKR's portfolio companies achieve their potential in terms of growth and operational excellence. He holds a B.A., with honors, from Northwestern University; and an M.B.A. from the Kellogg Graduate School of Management, Northwestern University.

Drew Beynon

Senior Vice President of Operations
DBeynon@@fieldturf.com

Drew Beynon joined FieldTurf with over 20 years of extensive business leadership experience from Accenture and Beynon Sports Surfaces. Where he held executive leadership positions in Manufacturing, Supply Chain, and Operations. Drew has focused on increasing organization performance by implementing operational discipline using Lean/6 Sigma Methodologies and World Class Manufacturing processes. He holds an undergraduate degree in Business Admin from Bucknell University and an MBA graduate degree from the University of North Carolina.

Martin Olinger

Senior Vice President of Sales, North America
molinger@fieldturf.com

Martin Olinger has extensive experience in Senior Sales Positions with numerous leading companies in the sports industry such as Dunlop Maxfli Sports Corp., Cendant Corp. and Srixon Sports USA. He holds a B.S. in Business Administration from Miami University, a Major in General Management and a Minor in Marketing.

Our Commitment

Doing business with FieldTurf is about more than just our quality products. It's about dealing with a company that goes above and beyond to provide its clients with a level of service and peace of mind unmatched by any other company in the industry.

Product

Compared to natural grass or other turf systems, FieldTurf has consistently proven to be the best investment. Whether for long-term savings, athlete safety, field performance, durability, or protecting the environment, FieldTurf has always set the standard. Our unique polymer formulation has created grass-like fibers that are more resistant to wear. Manufacturing includes an extended "healing" process at the moment of extrusion reducing the potential degradation of the fiber. The unique geometry of each fiber was designed and tested to outlast all other fibers on the market. Our customers get the benefit of FieldTurf's investment in fiber technology, heavyweight infill products and the results of decades of safety testing.

Experience

FieldTurf is the market leader, with over 7,000 successful football, soccer and multi-sport installations. Our business partners around North America continue to expect and demand maximum performance, optimal playability and an enhanced return on investment. These are just some of the reasons why FieldTurf remains the preferred product of choice for clients with a focus on excellence and a demand for maximum long-term value of their playing system.

The Best Warranty in the Business

FieldTurf has the most complete third party insured warranty in the business. Our industry leading \$32 million comprehensive policy is a reflection of our financial stability and the comfort you can take in knowing that after seventeen years and all of our many installations; we have never had a single claim against our policy!

Vertical Integration

Our state of the art fiber manufacturing plant in Germany and our triple ISO Certified, 500,000 square foot production facility in Calhoun, Georgia; the only one of its kind worldwide, give us complete control of all aspects of turf manufacturing – Fiber Production, Tufting, and Coating.

Quality Control

With complete design and manufacturing control over all three aspects of the value chain, nothing is left to chance. Nothing is left to any third party. This provides our customers with a level of quality assurance that simply cannot be matched. FieldTurf is the world leader in artificial turf innovation with ISO 9001, ISO 14001 and OHSAS 18001 certification in quality, environment and safety management systems. FieldTurf's Calhoun facility represents the only artificial turf manufacturing operation in North America to have received these ISO certifications.

Customer Service

Providing a high quality product and outstanding customer service has been a part of FieldTurf's successful business model since day one. Our customers are our number one priority, which is why we have taken the time to assemble an experienced and dedicated customer service department. We follow up with each and every one of our customers to ensure complete and consistent satisfaction.



4/3/2017

Great Falls Public Schools
1100 4th Street South
Great Falls, MT 59403

RE: Synthetic turf and track at Great Falls Public Schools

Thank you for the opportunity to submit the following proposal along with some background information on our company and our team.

At FieldTurf, we take pride in the value our fields generate for our customers. With every installation, we build a partnership that makes a difference to the community, team, and players. Ever since FieldTurf introduced its revolutionary artificial turf system, athletes, coaches and facility managers have been praising its unmatched quality, safety, durability and performance.

Each and every project is designed to maximize the customer's return on investment: the recorded lifespan of a FieldTurf field and the cost savings over time make FieldTurf the most cost efficient turf investment on the planet.

Our commitment is clear - to deliver the best artificial turf installation at the various high schools in the **Great Falls Public Schools**, achieving excellence in this project so as to provide your players with the very best and safest artificial playing surfaces in existence today.

Again, we thank you for this opportunity. If you have any questions on any of the following information, please do not hesitate to contact me.

Best Regards,

Jed Easterbrook
Regional Sales Manager

**GREATER FALLS PUBLIC SCHOOLS
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