

SUBMITTAL



Submittal number	66.0	Date	10/04/2019
Project	TRAILS AT CROWFOOT F1 & 9	6954 N. CROWFOOT VALLEY RD. PARKER, CO 80134	
Project number	201810		
Spec section			
Subsection		Status	Open
Current action	Submitted	Ball in court	MICHAEL TOMAS SNYDER
Topic	Landscape Material		

Submitter	
Reviewer	
Cc	

Date submitted	10/04/2019	Submission due date	10/04/2019
Released for review	10/04/2019	Review due date	10/11/2019
Date returned		Required on site date	
Date closed			

Notes
See attached ELCI submittal for landscape material in Filing 1 and Filing 1 Park



Letter of Transmittal

To: Con Cockrum
Kelley Trucking Inc
6201 McIntyre St
Golden, CO 80403

Transmittal #: 2
Date: 9/25/2019
Job: 01-10-19013 Trails at Crowfoot F1,9,Park

Subject: Landscaping Submittal

- WE ARE SENDING YOU**
- | | |
|--|--|
| <input checked="" type="checkbox"/> Attached | <input type="checkbox"/> Under separate cover via the following items: |
| <input type="checkbox"/> Shop drawings | <input type="checkbox"/> Prints |
| <input type="checkbox"/> Copy of letter | <input type="checkbox"/> Change order |
| | <input type="checkbox"/> Plans |
| | <input type="checkbox"/> Specifications |
| | <input type="checkbox"/> Samples |
| | <input checked="" type="checkbox"/> Submittal |

Document Type	Copies	Date	No.	Description
Submittal	1		Landscape-1 Rev 0	Landscape Materials

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input checked="" type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit ___ copies for approval |
| <input type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit ___ copies for distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> Other | |

Remarks:

Copy To: Tim LaPointe (Environmental Landworks Co), Kate LaPointe (Environmental Landworks Co)

From: Jordan Salisbury (Environmental Landworks Co)

Signature: _____



Submittal

Job: 01-10-19013
Trails at Crowfoot F1,9,Park
6594 N Crowfoot Valley Rd
Parker, CO 80134

Spec Section No: Landscape
Submittal No: 1
Revision No: 0
Sent Date: 9/25/2019

Spec Section Title:

Submittal Title: Landscape Materials

Contractor:

Environmental Landworks Company

Contractor's Stamp

Other:

Kelley Trucking Inc
Con Cockrum

Architect's Stamp

Engineer's Stamp



Landscape Product Submittals

Project: Trails at Crowfoot Filings 1, 9, Park

Contract Job #: 19-013

Submission #: 1

Date: 7/31/2019

DESCRIPTION	MANUFACTURER	SUPPLIER
Nursery	TBD	Green Spot Inc
Grey 4" Rock Mulch	TBD	Front Range Material Inc.
Grey 2" Rock Mulch	TBD	Front Range Material Inc.
Tan 4" Rock Mulch	TBD	Front Range Material Inc.
Tan 2" Rock Mulch	TBD	Front Range Material Inc.
Premium Dairy Compost	TBD	Front Range Material Inc.
14GA 4" Steel Landscape Edging (Green)	TBD	TBD
Landscape Fabric	TBD	TBD
Enviro turf Sod	TBD	Turf Master
Kentucky Bluegrass Sod	Korby Sod	Korby Sod
Buffalo Grass Sod	Korby Sod	Korby Sod
Seed Mix 1	TBD	Granite Seed
Seed Mix 2	TBD	Granite Seed
Temporary Irrigated Seed Mix 2	TBD	Granite Seed
Landscape Boulders	TBD	Arkins Park Stone
Crusher Fines (Red Color)	TBD	Pioneer

****NOTE: Items in red consist of a physical sample brought to the site for approval.****

NOTE: WORK WILL NOT BE PERFORMED WITHOUT APPROVAL

Submittal Approval:

Date:



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[Shopping Cart](#) [FAQ](#)

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Nursery Program

Account Summary

0011N2 | Green Spot Inc./ Rangeview Nurseries | 8776 North 107th Street, Longmont, CO 80504 | P1: 303-772-5530

License Information

Plants ID: 0011N2
License ID: 2534
Status: Active
Issue Date: 12/14/2018
Expire Date: 12/31/2019
Original Effective Date: 12/02/2010
Business Type: Nursery
Class of Business: Both
Total Nursery Acres:
Total Nursery Area Under Glass:

Online Renewals/Payments

Access online license renewals: [Online Shopping Cart](#)

Reports: [Nursery Registration renewal](#) [Nursery Registration](#) [Nursery Wallet Card](#)

Stock Types

- Bedding and Potted Plants
- Broad Leaf Evergreen Shrubs
- Chrysanthemums
- Conifers
- Deciduous Shrubs
- Deciduous Trees
- Fruit Trees
- Geraniums
- Ground Cover
- Herb Plants
- Narrow Leaf Evergreen Shrubs
- Nut Trees
- Perennials
- Roses
- Small Fruits
- Vegetable Plants
- Barberry, Mahonia or Mahoberberis
- Mulch/Chips

Account Tasks



Green Spot Inc./ Rangeview Nurseries
8776 N 107th St
Longmont, Colorado 80504-8452
2019

Certificate of Nursery Stock Inspection

THIS IS TO CERTIFY that, in accordance with **Title 35, Article 26, Colorado Revised Statutes**, the growing nursery stock supplied by Green Spot Inc./ Rangeview Nurseries was inspected by a duly authorized inspector from this office and was found to be apparently free from weeds, insect pests and plant diseases that are likely to be disseminated to the injury of purchasers. Colorado is not known to be infested with fire ant or cereal leaf beetle.

Note: This business is not JB certified to ship outside the Colorado counties of: Adams, Arapahoe, Boulder, Broomfield, Denver, Douglas, El Paso, Jefferson, Larimer, Pueblo, and Weld.

This business is not certified Japanese beetle free, as required for shipments to AZ, CA, ID, MT, NV, NM, OR, UT and WA.


This Certificate of inspection expires **December 31, 2019**, unless previously revoked.

By: 
Director, Division of Plant Industry





13611 B Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121 • www.midwestlabs.com

Lab #	2766285	Report of Analysis		Report Number: 18-022-4118																																																																																																																																																																
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SPECIFICATIONS

PAINTED STEEL OR GALVANIZED STEEL

14 ga

(.070 - .075")

Lightweight, low cost residential or commercial edging installs quickly and easily allowing imaginative free form design.

12 ga

(.10 - .105")

Possesses the durable, heavy duty characteristics of 1/8" edging while providing the lightweight, conventional installation properties similar to the 14 ga in the shorter 10' lengths.

1/8"

(.12 - .125")

Versatile, lightweight commercial edging. Providing economical durability and uniformity to flower beds and ground cover separation.

3/16"

(.182 - .188")

General pupose commercial edging, most commonly used in walkways, driveways and perimeter strips providing strength and continuity to all landscape designs.

1/4"

(.20 - .25")

Heavy duty edging for use where straight lines are essential. Ideal for rock and gravel retention on pathways and where erosion control of blacktop driveways and parking lots is required.

Steel Landscape Edging

SIZE	14 ga	12 ga	1/8"	3/16"	1/4"
DEPTH	4",6"	4"	4"	4"	5"
LENGTH	8',10'	10'	16'	16'	16'
ACTUAL COVERAGE					
8 FT	7' - 4"				
10 FT	9' - 4"	9' - 4"	-	-	-
16 FT	-	-	15' - 4"	15' - 4"	15' - 4"
NUMBER OF STAKES (per piece)					
8 FT	4	-	-	-	-
10 FT	4	4			
16 FT	-	-	6	6	7
STAKE DEPTH	12",14"	12",14"	12",14"	16"	16"
APPROX. WEIGHT (lbs. including stakes)					
8 FT	1.3/ft 1.9/ft	-	-	-	-
10 FT	1.3/ft 1.9/ft	1.7/ft	-	-	-
16 FT	-	-	2.0/ft	3.0/ft	4.7/ft

Hot rolled American-made steel with an electrostatically applied powder coat surface paint. Unpainted and hot-dipped galvanized finishes available.



DURAEDGE products are available unpainted, galvanized or in an electrostatically applied green, black or brown powder coat paint.

DURAEDGE hot-dipped galvanized is recommend where highly corrosive conditions exist, like coastal areas.

Compared to wood and plastic edging, steel will not become brittle or decay. It is not easily damaged by maintenance equipment and is less expensive when compared with its longevity and labor saving installation costs.

DURAEDGE edging and accessories provide a comprehensive approach to your landscaping needs while assuring a quality professional landscape project.





ACF West, Inc. is a D.B.A. name for N.W. Geosynthetics, Inc.

8951 S.E. 76th Drive, Portland, OR 97206 503-771-5115 800-878-5115 Fax: 503-771-1161

Woodinville Corporate Center II Bldg. A #400

15540 Woodinville-Redmond Road, Woodville, WA 98072 425-415-6115 800-423-4567 Fax: 425-415-6126

POLYSPUN 350 (Light Gray)

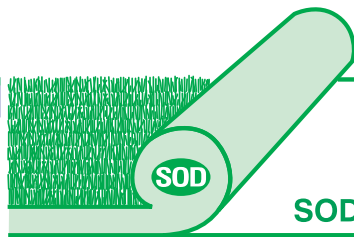
This letter is to advise that our **Polyspun 350** is a nonwoven, spunbound polypropylene fabric used in subsurface drainage and weed control applications. The natural qualities of polypropylene provide exceptional ultra violet light stability, unequaled water and air permeability, and meet the physical properties listed below:

Physical Property	Test Method	Minimum Average Roll Value (English)	Minimum Average Roll Value (Metric)
Unit Weight	ASTM-D-5261	3.5 oz./yd ²	99.4 g/m ²
Grab Tensile	ASTM-D-4632	120 lbs.	.534 kN
Grab Elongation	ASTM-D-4632	60%	60%
Mullen Burst	ASTM-D-3786	130 psi	895 kPa
Puncture	ASTM-D-4833	45 lbs.	.200 kN
Trapezoidal Tear	ASTM-D-4533	60 lbs.	.267 kN
UV Resistance	ASTM-D-4355	80%	
AOS	ASTM-D-4751	70 sieve	0.212 mm
Permittivity	ASTM-D-4491	2.1 sec ⁻¹	2.1 sec ⁻¹
Flow Rate	ASTM-D-4491	150 gal/min/ft ²	6110 L/min/m ²

ACF West, Inc. supplies the nonwoven fabric indicated above. The values listed are a result of testing conducted by the manufacturer in on-site laboratories.

Roll Widths: 3', 4', 5', 6', 7', 9', 12', 15'

Roll Length: 300'



Turf Master LLC

SOD DELIVERY INSTALLATION

Turf Master Enviroturf™

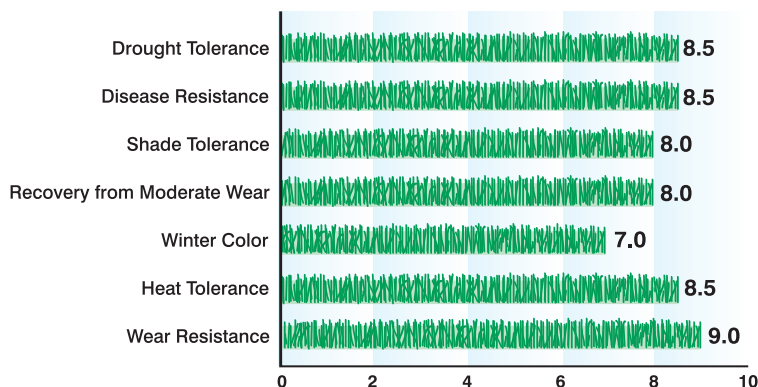


Turf Master Enviroturf™ is blended to improve turf quality on your toughest sites such as Parks, Sports Fields, Commercial Sites, Golf Course Roughs and Backyards of Home Lawns. This turf blend will thrive at cold high altitudes as well as the dry sunny conditions of the Rocky Mountain Plains, while providing high quality, durable playing surface that is important to your children's safety. Yet, it will still give you lower water and fertilizing costs!

Turf Master Enviroturf™ is a new drought tolerant turfgrass blend. It is a very dense, hardy blend of turf. Within the first 18 months of establishment, Turf Master Enviroturf™ can use 30%-40% less water than Kentucky Bluegrass. Turf Master Enviroturf™ has many great qualities. It contains endophytes which are the best natural way to ward off insects. It is very deep rooting, which makes it a more drought tolerance plant. Turf Master Enviroturf™ thrives in sun or shade, making it adaptable for every situation. This lower maintenance turf uses 50% less nitrogen than Kentucky Bluegrass, which means less fertilizing. It is a very durable turfgrass which is ideal for areas of high traffic and wear.

- **Deep rooting and contains endophytes**
- **Thrives in sun or shade**
- **Uses less nitrogen than Bluegrass**
- **Extremely durable**
- **Uses 40% less water than Bluegrass**

Turf Master Enviroturf™ Performance Chart



Turf Master Enviroturf™ is an extra durable and drought tolerant turf that will help us conserve our natural resources and still provides a high quality groundcover.

Turf Master Enviroturf™

MAINTENANCE

WATERING:

- **WEEK 1:** It is critical to water new turf the first 7 days. New sod requires 2" or more of water per day for the first 7 days. Total amount should be split up over 4 or 5 watering periods each day.
- The warmer the temperature (over 90°) the more water you need to apply!
- **WEEK 2:** After the first 7 days, water at the rate of 2" per day for 7 days, split up over 2 to 3 watering periods per day.
- **WEEK 3:** If watering restrictions allow, water 1-2" per day every other day for 7 days. After the first two or three weeks, revert to watering 2 times per week as local watering restrictions allow.
- **WEEK 4** through first season: Water as needed with hose and hand sprinkler. Do not allow drying the first year. Turf is not fully established until after the first season!

Sandy soil requires more frequent watering than clay soil. Special attention should be paid to slopes and mounds where runoff occurs. More frequent, shorter watering may be necessary in such locations.

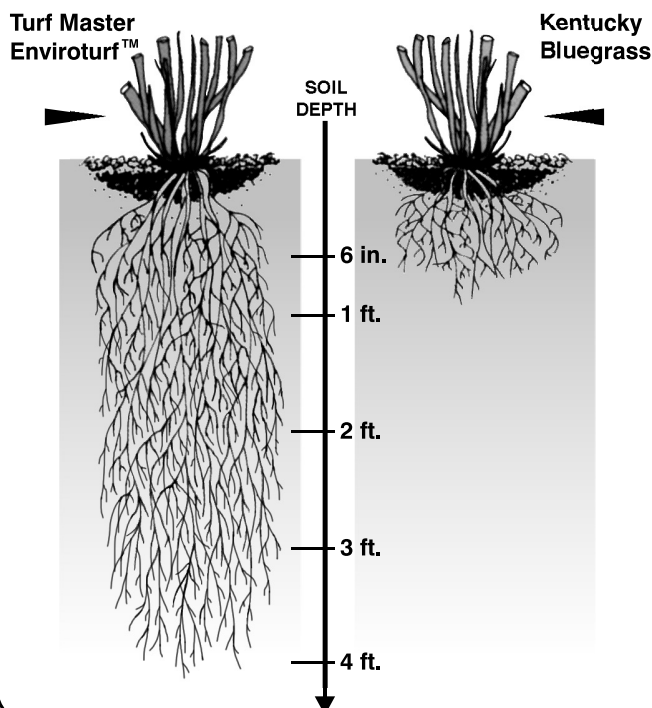
FERTILIZATION: Apply Turfmaster high phosphorous fertilizer at time of installation to promote root production. Follow up with Turfmaster blended fertilizers 2 to 3 times per year. Light green is an indication that your lawn needs fertilizer.

MOWING: Mow 10 days to 2 weeks after installation. Mow to a height of 2 to 3½ inches. Turf Master Enviroturf™ should be mowed about once a week. Never mow more than one-third of the blade at one time, as it may injure the plant.

DISEASES & INSECTS: Turf Master Enviroturf™ is highly resistant to common disease and insect problems. The endophytes in the crown produces toxins that kill or repel insects that feed on turf. The appearance of brown spots may be a result of a watering problem. If brown spots remain after adjusting your watering routine, a disease may be present.

Improved Drought Tolerance:

A deep, extensive root system allows Turf Master Enviroturf™ to display excellent drought tolerance.



TECHNICAL DATA

COMMON NAME: Fescues and other drought-tolerant grasses

SPECIES: Hybrid Fescue

GROWTH RATE: Summer: 1 to 1½" per week

ROOT DEPTH: 3 to 6 feet, depending upon soil type and watering patterns and soil preparation.

ADAPTABILITY

SOILS RANGE: Very good tolerance to saline soil conditions. Amendments are recommended for heavy clay soils to promote drainage.

SHADE TOLERANCE: Prefers full sun, but adapts to 60% shade.

GEOGRAPHIC RANGE: Rocky Mountain Region.

STANDARDS AND MEASURES

State inspected and certified for noxious weeds, diseases and insects.

SIZE:

- 10 sq. ft. per roll. Each roll is 2 ft. by 5 ft.
- Soil thickness ½" to 1½" top growth
- 500 sq. ft. per pallet

BIG ROLLS:

- 200 to 350 sq. ft.

WEIGHT: 2,000 to 2,800 lbs. per pallet

Grown from 100% Weed Free Seed - 98% Purity



3327 Giddings Rd • Ft. Collins, CO 80524
Phone: 970-493-8311 • Fax 970-224-3547
324 Ayers Rd • Wheatland, WY 82201
Phone • 866-493-8311 • Fax 970-224-3547
www.turfmastersod.com
Email: turfmaster@turfmastersod.com

DARK GREEN INVITING BLUEGRASS MIX



Earth Friendly bluegrass combines four unique varieties providing a tough, beautiful and safe turf suitable for both Residential and Commercial applications.

- Darker Blue-Green color than other bluegrasses
- Dense Soft Texture is attractive & inviting
- Great in Full Sun & Partial Shade
- Cold & Heat Tolerant - *Perfect for Colorado Weather*
- Dwarf Characteristics Means Less Mowing
- Durable Surface for High Traffic & Relaxation
- Faster Recovery & Self-Healing
- Drought Tolerant & Pest Resistant

Recommended for: Front & Back Yards, Golf Courses, Parks and other Landscape projects where high traffic use with moderate, superior durability.



EARTH FRIENDLY

Kentucky Bluegrass Blend

Blend Varieties and Characteristics:

Midnight Bluegrass: One of the strongest performing Kentucky Bluegrasses ever developed! For over 20 years Midnight has shone in university and private trials with its beauty and performance. Known for its low, compact spreading growth, moderately aggressive habit and medium-fine blade width. Midnight produces a uniform, dense turf with minimal seed head. A strong disease-tolerant turf that does well in full sun to light shade and shows excellent performance in heat and humidity, throughout all zones of adaptation. Mowing is recommended when it reaches approximately 2". In the 2003 NTEP Progress report, Midnight rated 8 for Dark Color (*on a scale of 1-9 with 9 being perfect dark color*).

Limousine Bluegrass: Long recognized as one of the strongest bluegrasses in terms of density and wear tolerance. Limousine naturally limits weed encroachment and is disease-resistant. This variety germinates quickly, has a lush appearance, a very fine leaf texture, and is low-growing. It demonstrates impressive spring and fall ground coverage, and withstands high traffic wear-and-tear. Limousine shows an early green color, improved winter color and is frost tolerant. It also performs well in cool or humid regions, in shade and summer heat.

Moonlight Bluegrass: A one-of-a-kind bluegrass that combines a beautiful dark blue-green color along with ability to perform well in areas of moderate salinity, Moonlight also grows in a wide range of well-drained soils. Moonlight blends very well with other bluegrasses, and has a compact spreading growth habit. It is moderately aggressive. This uniquely colored bluegrass has a medium leaf texture and maintains a balance between beauty, drought tolerance and disease resistance.

Blackstone Bluegrass: Uniquely colored bluegrass with an excellent, dark blue-green color. One of the strongest characteristics of Blackstone is its highly desirable reduced vertical growth and early spring green-up. In addition to its reduced growth and dark color, it has rated very strongly in the NTEP trials and is especially strong for resistance against leaf and spot disease.

Of note: all 4 varieties above have rated strongly and favorable in the NTEP Progress Reports for Low Maintenance, Traffic Durability and Color.

Korby Sod, LLC
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Korby Buffalo Blue Blend is popular for use in low traffic areas for excellent drought and heat resistance grass. People love it because of its low water usage, low maintenance and low growth habit.

Benefits of Korby Buffalo Blue Blend

- **Water Conservation:** Drought resistant grass species. Without water it will survive drought during the summer by going dormant and revive as soon as there is sufficient moisture. However, if you desire a green lawn all summer it will need to be irrigated regularly.
- **Low Fertility Requirement:** In addition to its water conservation qualities, it has a low fertility requirement. Mature grass requires only 1 to 2 lbs of Nitrogen per 1000 sq.ft. each year. Compare this to tall fescue or Kentucky bluegrass that requires four to six lbs of Nitrogen each year.
- **Low Growing:** On average, maximum height of 4 to 8 inches.
- **Few Insect Problems:** Disease & Insect Resistance

Recommended for: Low Maintenance Lawns, Grazing, Erosion Control, Reclamation, Cemeteries, Native Landscaping, Commercial & Highway right of ways



KORBY BUFFALO BLUE

Buffalo/Blue Grama Blend

SUNDANCER BUFFALO GRASS is the most advanced turf type of Buffalograss available in the industry today. Sundancer was developed through a cooperative effort between the Native Turf Group and the University of Nebraska-Lincoln. Sundancer responds to the demand for warm season turf with superior turf qualities and performance from seed. Sundancer is widely adapted to diverse environments with turf quality a step above the rest. When compared to existing commercially available seeded varieties at test sites in Arizona, Colorado, Kansas, Nebraska, New Mexico, Utah, Virginia and Washington, Sundancer excelled in all categories. Thin, blue-grey leaves less than 1/8 inch wide and 3 to 6 inches long. It spreads rapidly by surface runners and forms a dense, matted turf. Can tolerate clay soils and prefers neutral to alkaline soils. Buffalo grass is well-known for its low nitrogen requirement. Mature grasses do well with two or three fertilizations of no more than 1 to 2 lbs nitrogen per year per 1000 sq. ft. Requires approximately .25 (1/4) to .5 (1/2) inch of water each week. Its water requirement is one third to one half that of other lawn grasses. In fact, over-watering will actually cause the grass to decline.

Birdseye Blue Grama is a native, perennial, warm-season, short grass that seldom grows taller than 12 to 20 inches. Blue Grama has fine blue-green leaves and a short growth habit. It grows in all well drained types of soil including sandy and alkaline. It is taller than buffalograss, but is more drought tolerant. It produces a low basal type growth that forms a bunchy sod. Blue Grama is grown throughout the Great Plains, and is found in association with buffalograss in the short grass prairies. Blue Grama produces highly palatable, nutritious forage that retains its feed value into the winter. Blue Grama does not produce an abundance of forage, and should not be grazed closer than 2 to 3 inches during the growing season. Narrow, bluish-gray leaf fine blades form a dense clump growing 12 to 15 feet tall. It also has an attractive, unique seed head that resembles a brush or eyelash. It is a popular turf grass, widely used for pasture and range, and erosion control. Low maintenance and drought-resistance qualities are what make it so popular. State grass of Colorado and New Mexico.



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Date: July 31, 2019
To: Jordan Salisbury
Company: Environmental Landworks Company, Inc
From: Darrell Roundy
Re: Seed Submittal for Trails at Crowfoot

This Letter is to serve that your company has contracted Granite Seed Company to provide the seed for the Trails at Crowfoot Project. The seed can be provided as specified. The tables below show the mixes we will provide. A seed certification will accompany your order identifying individual species, lots, varieties, origin, and pure live seed information.

SEED MIX 1

<u>COMMON NAME</u>	<u>PERCENTAGE</u>
CANADA WILD RYE	20%
CRESTED WHEATGRASS	15%
SLENDER WHEATGRASS	15%
ANNUAL RYEGRASS	10%
SHEEP FESCUE	10%
BIG BLUESTEM	10%
SIDEOATS GRAMA	10%
CANADA BLUEGRASS	5%
BLUE GRAMA	5%

SEEDING RATE

DRILLED: 25 LBS/AC.
BROADCAST: 50LBS/AC.



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SEED MIX 2

<u>COMMON NAME</u>	<u>PERCENTAGE</u>
SLENDER WHEATGRASS	22%
SODAR STREAMBANK WHEATGRASS	18%
ARIZONA FESCUE	13%
BLUE GRAMA	13%
BUFFALO GRASS	12%
BARLEY OR OATS	12%
SPIKE MUHLY	5%
INDIAN RICEGRASS	5%

SEEDING RATE

DRILLED: 25 LBS/AC.
BROADCAST: 50LBS/AC.

TEMPORARILY IRRIGATED NATIVE SEED MIX

<u>COMMON NAME</u>	<u>PERCENTAGE</u>
EPHRAIM CRESTED WHEATGRASS	25%
SHEEP FESCUE	23%
PERENNIAL RYEGRASS	18%
CANADA BLUEGRASS	13%
BARLEY OR OATS	12%
BLUE FESCUE	9%

SEEDING RATE

DRILLED: 25 LBS/AC.
BROADCAST: 50LBS/AC.

All seed supplied will be in compliance with State and Federal Seed noxious weed laws, with proper labeling and documentation. If you or anyone associated with this project has questions or need anything else at this time, please contact me at the number provided in the header of this document.

Darrell Roundy
