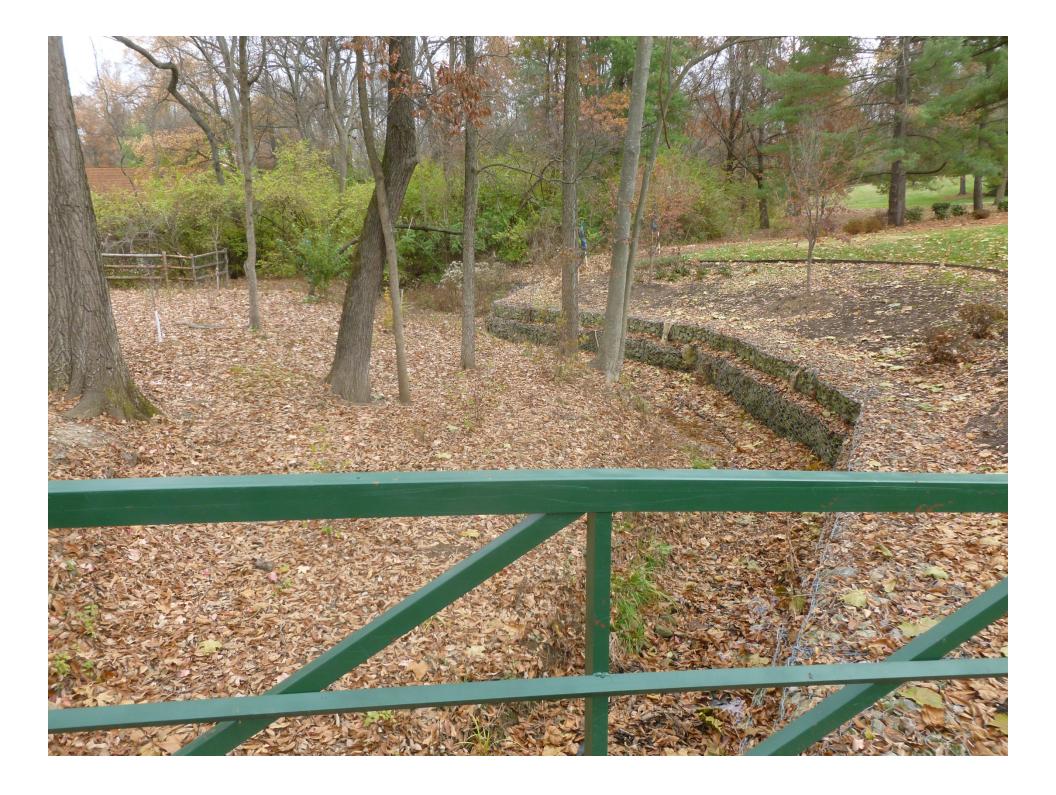
## RainScape Rebates Program 2013-2014

Deer Creek Watershed Alliance



Round 3





The RainScape Rebates program is funded by Metropolitan St. Louis Sewer District, Mabel Dorn Reeder Foundation, Great Rivers Greenway, Missouri Department of Conservation, participating municipalities, and US EPA Region 7 through the Missouri Department of Natural Resources (subgrant number G11-NPS-15), under Section 319 of the Clean Water Act. nttp://www.missouribotanicalgarden.org/sustai 🔎 – 🗟 🖒 🗙 🔀 MBG: Deer Creek Watershed Al... 🐮 RainScaping Guide

🖬 Home Support the Garden Members Shop Volunteer Jobs Media Contact



Sea

### MISSOURI BOTANICAL GARDEN

Visit Things To Do Gardens & Gardening Learn & Discover Sustainability & Conservation Plant Science About Sustainability & Conservation > Sustainable Living > At Home > RainScaping Guide

#### **RainScaping Guide**

#### **RainScaping Prize Drawing**

Let us help YOU rainscape your yard! Fill out our short survey for a chance to win a \$500 gift certificate for Shaw Nature Reserve's **Spring Wildflower Market** next May. Or win one of the other fabulous prizes: plants, labor, a rain barrel, a garden bench, gift cards and more. Entries must be submitted by February 11, 2014.

See prize details and enter today!

(Do you live in the Deer Creek Watershed? Landowners

in nineteen municipalities are eligible to apply for a rebate of up to \$2,000. View a list of participating municipalities and learn more about RainScape Rebates!)

#### What Is RainScaping?

W

RainScaping consists of an array of sustainable landscaping practices that a landowner may employ to relieve rainwater-related problems. In addition to rain gardens and bioswales, a



#### RainScaping Guide Quick Links

#### What is RainScaping?

#### Why RainScape?

×

Benefits & Goals

#### How to RainScape

- What Do You Know About Your Site?
- Is a Rain Garden Right for Your Site?
- Design & Build a Rain Garden
- Select Other RainScaping Options
- Select Plants

Landscaping Options:

- Lawn Alternatives
- Soil Amendments & Mulching
- Yard Management
- Woodland Restoration
- Creek Corridor Vegetative Buffers
- Rain Gardens
- Vegetated Bioswales
- Rock Weirs & Filter Socks
- Rainwater Harvesting
- Permeable Pavement
- Green Roofs

#### Deer Creek Watershed Alliance

#### a project of 💥 Missouri Botanical Garden



Search



#### RainScape Rebates

that helps residents

management.

W

Check out a rebate program

landscape for stormwater

#### RainScaping Survey

Fill out a <u>short survey</u> for a chance to win \$500 worth of native plants or other great prizes!

#### De-icing Tips

Learn about <u>salt alternatives</u> and ways to deal with ice without polluting our water.

The Deer Creek Watershed Alliance is funded by project partners, the Mabel Dorn Reeder Foundation, and US EPA Region 7

#### Home

Alliance Deer Creek Watershed Get Involved DCWA Activities Demonstration Projects

Sign up for our e-mail newsletter

Like us on Facebook!

**3** 

#### Deer Creek Watershed Alliance

a project of 💥 MISSOURI BOTANICAL GARDEN

Google" Custom Search

Search

#### Home

Alliance

| Deer Creek Watershed   |
|------------------------|
| Get Involved           |
| DCWA Activities        |
| Demonstration Projects |
|                        |

Sign up for our e-mail newsletter

Like us on Facebook!

#### RainScape Rebates Program

Landowners in participating municipalities are eligible to take part in a RainScape Rebates program. RainScape Rebates is a voluntary program that financially assists landowners in the Deer Creek Watershed wishing to landscape their yards to improve stormwater management. Seventy-five percent of the funds will be reserved for residential landowners; the remaining 25 percent will be available for schools, churches, businesses, and parks. The maximum rebate per site is 75 percent of documented expenses up to \$2,000.

#### PARTICIPATING MUNICIPALITIES ARE:

- Brentwood
- Clayton

Des Peres

- Maplewood
- •
- Olivette

Rock Hill

- Creve Coeur 

  Richmond Heights
- Crystal Lake Park
  - Shrewsbury

#### INFORMATION AND FORMS

For Landowners:

RainScape Rebates Application Eligible Improvements List Participating Contractors List Register for an Orientation

For Contractors:

Contractor Application FAQs for Contractors Register for Workshop

#### Resources:

Online RainScaping Guide RainScaping Resources RainScaping Presentation Cost Comparison Presentation Graph Paper Drawing Instructions/Example ttp://www.deercreekalliance.org/rainscapereba 🔎 👻 🗟 🗸 🛛 😻 MBG: Deer Creek Watershe... 🗴

Due to limited funds, qualified applications will be competitively scored. Applicants awarded rebates will be notified of funding by March 14, 2014. A required workshop for new contractors will take place in December. Optional orientations for landowners will be available in January 2014. Learn more about and register for a workshop or orientation.

See details about awarded proposals from the first and second rounds of funding.

|   | RAINSCAPE RE  | BATES TIMELINE           |                       |  |
|---|---|--------------------------|-----------------------|--|
|   | Round One   | Round Two                | Round Three           |  |
| Applications Available  | 1.7.13  | 5. <mark>15.1</mark> 3   | 11.15.13              |  |
| Contractor and<br>Landowner Workshops                                 | Feb 2013  | May/June 2013            | Dec 2013/<br>Jan 2014 |  |
| Rebate Applications<br>Due  | 3.1.13  | 7.15.13                  | 2.12.14               |  |
| Project Notifications<br>Out  | 3.18.13   | 8.15.13                  | 3.14.14               |  |
| Planting Time   | Spring/Fall   | Fall/Spring              | Spring/Fall           |  |
| Project Receipts and<br>Completion Forms Due                          | No later than<br>12.2.13                                  | No later than<br>10.3.14 |                       |  |
| Quality Control/<br>Ground Truthing/<br>Completion Forms<br>Processed | Within 6 weeks of receipt of<br>Project Completion Forms  |                          |                       |  |
| Rebate Funds<br>Dispersed to<br>Landowners                            | Within 12 weeks of receipt of<br>Project Completion Forms |                          |                       |  |

Landowner Manual & Other Handouts

Changes from Prior Rounds & Round 3 Applications

# Common RainScape Rebate Application Issues

## **Applications - Good**

#### RainScape Rebates Application

#### Contact information

| Name          | Phone number |  |
|---------------|--------------|--|
| Address       |              |  |
| City          | Zip 63141    |  |
| Email address |              |  |

Would you like to receive the Deer Creek Watershed Alliance monthly email newsletter?

#### Type(s) of RainScaping to be Installed

(Go to mobot.org/rainscaping for step-by-step RainScape planning guidance.)

Rain Garden and/or Bioswale

Lawn Alternatives (replace turf grass with trees & groundcover, shrubs, perennials and/or prairie plants)

- Stormwater Harvesting (Cistern or Rain Barrel)
- Woodland Restoration (Invasive species removal and replacement)
- Other

#### Project Details Part A (If project is not plant-based, skip to Part B.)

What are your project goals? Replace invasive species with native plants in woods. Plant old creek bed and woods with native plants that will help water to infiltrate into soil.

List plants to be installed, including genus and species, quantity, spacing, container size. Indicate which plants are native (including native cultivars). Attach additional paper as needed.

| See Attached List and drawings     |   | <br>       |
|------------------------------------|---|------------|
|                                    |   |            |
|                                    |   | 2.000.0000 |
|                                    |   |            |
|                                    |   |            |
|                                    |   | 100.000    |
|                                    | 1 |            |
| Where will you obtain your plants? |   |            |

Did you conduct a percolation test? Ves INo Homeowner has observed that water drains from

Describe your soil amendment strategy by describing the following: old creek bed in about a day. Mulch—what kind, how deep, where is it from

- · Quantity of compost applied (in inches)-what kind, where is it from
- If aeration method is used, name the type of aerator and depth of aeration (in inches).

Woodland areas to be covered with naturally occurring composted leaf litter as required to minimize erosion.

#### Project Details Part B

w

M

| Will your feature capture runoff or rainwater directly from your   |                   |                         |                        |
|--|-------------------|-------------------------|------------------------|
| What portion of your roof will drain to the feature? All of  | Downspouts do     | drain towards feature   | but not connected      |
| Does your roof have a slight, moderate, or steep slope or  |                   |                         |                        |
| What is your building footprint? (the area in square feet d  | ivided by the nun | nber of above-ground    | floors) 2900           |
| Will your feature capture yard runoff? 🔳 Yas 🗌 No 🛛 If a   |                   | _                       |                        |
| What is the size of your property in square feet or acres?<br>off in 3 foot intervals). Approx. 1 Acre (43,560 SF)         | (You can estim    | ate the area of your p  | roperty by stepping it |
|  | Most of lot exce  | pt for part of front ya | rd                     |
| How many neighboring properties, if any, will drain towar  | ds your feature?  | Neighbor to North &     | part of common gr.     |
| Of those neighbors, how many are also submitting applic<br>of any other neighbors  | ations and what   | are their addresses?    | I am not aware         |
| What is the (estimated) total surface area in square feet drain<br>train to the feature(?_Approximately 1 Acre (43,560 SF) | ing to your RainS | cape feature (roof and  | Sfor uphill areas that |
|  |                   |                         | SAND SE                |

What is the number of square feet of the lawn area to be converted, or woodland to be restored? 9800 SF What is your maintenance plan? Continue to remove honeysuckle in beds. Weed Beds. Water plants as necessary during establishments and periods of drought. Keep excess leaves out of bed with small plants

#### Budget

| Design Cost            | \$ 200  | What is the estimated rebate |
|------------------------|---------|------------------------------|
| Materials Cost \$ 1750 |         | amount requested (maximum    |
| Labor Cost             | \$ 955  | 75% of documented costs)?    |
| TOTAL COST             | \$ 2905 | \$ 2000                      |

Who will install the landscaping? Please check one: Do it yourself 🔳 Contractor

If using a contractor, name up to three that you plan to or have solicited bids from. (Participating contractors are required to attend an informational meeting on Feb. 6, from 8:00-10:30 a.m. at Frontenac City Hall.) If you are installing your own landscaning workshop attendance is optional.

#### Outreach

з

| before and after Yes |
|----------------------|
| eceiving volunteer   |
|                      |

Yes, I have read and agree with all RainScape Rebates program requirements.

Participant Signature

## Applications – Needs Improvement

Please use the actual application RainScape Rebates Application

#### Types of RainScaping to be Installed; Biowale and Landscape Restoration Project Details, Part A:

#### What are your project goals?

Multiple goals. 1) To slow down the flow of water that washes from the lawn and driveway and creates a temporary river from west to cast access the Client's yard along the garage and into a wooded area, 29 to increase the influentian of the water into the new bioswale, 30 to redirect the balance of water into the existing groundcover and twee adjacent to the Client's property, and 40 to put in retive accessing of more diversity and beauty.

installation plan.

#### Plant List.

Please see the chart below within (

Where will you obtain your plants?

s will obtain the plants from local wholesalers and growers.

What invasive plants will be removed?

Bush Honeywarkle (Lonicera maackii)

#### Did you contact a percolation test?

Yes, AND vill be obtaining a soil test from the soil lab at UMC.

Our soil amendment strategy regarding mulch, compost, and aeration: Alker regarding the existing area to better accommodate the designed landscope features, will di in 1 yard of compost and 1 yard of rain garden soil from S . Once the gravet area is completed and the plants are installed according to the design, natural mutch from will be graved at a depth of 2.5 to 3 inches.

#### Project Details, Part B:

Will your feature capture runoff or rainwater directly from your roof? Yes, from the gauge. Will your feature capture yard runoff? Yes.

What is the size of your property in square feet or acres? 0.233 acre.

What portion of your property will drain to your feature? The laws, garage roof, and driveray.

How many neighboring properties, if any, will drain towards your feature? Onc.

Of those neighbors, how many are also submitting applications and what are their addresses? None. What is the estimated total surface area in square feet draining to your RainScape feature? 0.5 acros. What is the number of square feet of the lawn area to be converted, or woodland to be restored? Apprecimately 250 m, 0.

#### What is your maintenance plan?

The Client's maintenance plan is to make sure the plants receive 1° of water weekly during the growing season, to keep the growel bed cleared of major debtis, to keep the mulched areas mulched at a minimum of 2° deep, to remove the perennials' old growth in the spring, to prune shruls and trees of dead or diseased wood, to apply pre-emergent to the planted beds 3 times yearly and to wood them as necessary, and to edge between the Client's lawn and bed edge twice a year.

#### Budget:

Design Cost: Included in the overall labor.

Materials Cost: \$2,205.24.

#### Labor Cost: \$2,387.50.

TOTAL COST: \$4,592.74

Who will install the landscape? Contractor:

#### Outreach:

Is project visible from the street or publicly accessible? Yes, pars are visible from the street but it is not publicly accessible.

Will you allow Deer Creek Watershed Alliance to use pictures taken of your project before and after completion to keep on file and to use in public outreach efforts or publications? Yes.

page 1 of 5

## **Applications – Needs Improvement**

#### RainScape Rebates Application

| vame Landowner Nai  | me   | Phone numbe            | r  |
|---|--|------------------------|--|
| Address Add   | ress   |                        |  |
| City  |  | Zip                    |  |
| Email address   |  |                        |  |
| Would you like to receive the Deer Cro  | ook Watershed Alliand  | e monthly email news   | sletter? 🗌 Yes 🗹 No  |
| Type(s) of RainScaping to be Inst   | alled  |                        |  |
| Go to mobot.org/rainscaping for s   | tep-by-step RainScap   | oa planning guidance.  | )  |
| Rain Garden and/or Bioswale   |  |                        | the section sector elevent   |
| Lawn Alternatives (replace turf gra   | ss with trees & ground   | doaver, shrubs, peren  | nials and/or praine plants)  |
| Stormwater Harvesting (Cistern or   | Rain Barrel)   | alaaamaath             |  |
| Woodland Restoration (Invasive sp   | ecies removal and rep  | placemently            |  |
| Other   |  |                        |  |
| Project Details Part A Managert   | is not plant-based, sl   | (jp to Part B.)        | Contraction of the local division of the loc |
|   | in the pair is care at at  |                        | and the second se  |
| What are your project goals?  |  |                        |  |
|   |  |                        |  |
|   |  | ally constant paints   | and size last action which closes are on   |
| List plants to be installed, including gr   | enus and species, qu   | antity, spacing, conta | iner size. Indicate which plants are nat   |
| including native cultivars). Attach add   | itional papar as need  | ed.                    |  |
|   |  |                        |  |
| Plant Genus & Species   | How Many   | Spacing                | Container size Native?   |
| Plant Genus & Species   | How Many   | Spacing                | Container size Native?   |
| Plant Genus & Species   | How Many   | Spacing                | Container size Nativo?   |
| Plant Genus & Species   | How Many   | Spacing                | Container size Native?   |
| Plant Genus & Species   | How Many   | Spacing                | Container size Native  |
| Plant Genus & Species   | How Many   | Spacing                | Container size Native?   |
| Plant Genus & Species   | How Many   | Spacing                | Container size Native?   |
| Plant Genus & Species   | How Many   | Spacing                | Container size Native?   |
| Plant Genus & Species   | How Many   | Spacing                | Container size Native  |
|   | How Many   | Spacing                | Container size Native?   |
| Where will you obtain your plants?  |  |                        | Container size Native  |
|   |  |                        | Container size Native?   |
| Where will you obtain your plants?  |  |                        | Container size Native?   |
| Where will you obtain your plants?  |  |                        | Container size Native?   |
| Where will you obtain your plants?<br>What invasive plants (such as Bush h  | koneysuckie, efc.) will  |                        | Container size Native?   |
| Where will you obtain your plants?  | koneysuckie, efc.) will  |                        | Container size Native?   |
| Where will you obtain your plants?<br>What invasive plants (such as Bush h<br>Did you conduct a percolation test?   | koneysuckie, etc.) will  | be removed, if any?    | Container size Native?   |
| Where will you obtain your plants?<br>What invasive plants (such as Bush h<br>Did you conduct a percolation test?<br>Describe your soil amendment strate  | koneysuckie, etc.) will Yes No gy by describing the l                                    | be removed, if any?    | Container size Native  |
| Where will you obtain your plants?<br>What invasive plants (such as Bush h<br>Did you conduct a percolation test?<br>Describe your soil amendment strate<br>- Match-what kind, how deep, wh                                     | koneysuckle, etc.) will Ves No gy by describing the I ere is it from                     | be removed, if any?    | Container size Native?   |
| Where will you obtain your plants?<br>What invasive plants (such as Bush h<br>Did you conduct a percolation test?<br>Describe your soil amendment strate<br>Much-what kind, how desp, wh<br>Ouentive (compet acciled is in )    | koneysuckie, etc.) will Ves No gy by describing the l ere is it from cheaj—what kind, wh | be removed, if any?    |  |
| Where will you obtain your plants?<br>What invasive plants (such as Bush h<br>Did you conduct a percolation test?<br>Describe your soil amendment strate<br>- Match-what kind, how deep, wh                                     | koneysuckie, etc.) will Ves No gy by describing the l ere is it from cheaj—what kind, wh | be removed, if any?    |  |
| Where will you obtain your plants?<br>What invasive plants (such as Bush h<br>Did you conduct a percolation test?<br>Describe your soil amendment strate<br>Much-what kind, how desp, wh<br>Ouentive (compet acciled is in it   | koneysuckie, etc.) will Ves No gy by describing the l ere is it from cheaj—what kind, wh | be removed, if any?    |  |
| Afhere will you obtain your plants?<br>What invasive plants (such as Bush h<br>Did you conduct a percolation test?<br>Describe your soil amendment strate<br>Mulch—what kind, how desey, wh<br>Ouentive (compet acoiled is in i | koneysuckie, etc.) will Ves No gy by describing the l ere is it from cheaj—what kind, wh | be removed, if any?    |  |

#### Project Details Part B

| roje   | ct D    | etails Part B  |  |
|--------|---------|--|--|
|        |         | ture capture runoff or rainwater directly from   | your roof? 🗹 Yes 🛄 No 🛛 If so:                                       |
| W      | hat po  | ortion of your roof will drain to the feature?   | Both front and back (see site map)                                   |
|        |         | our roof have a slight, moderate, or steep slo   |  |
| W      | hat is  | your building footprint? (the area in square fe  | eet divided by the number of above-ground floors) 1/4 Story          |
|        |         | ture capture yard runoff? 🗹 Yes 🔲 No   | If so: /,208 SQ F  |
|        |         | the size of your property in square feet or ac<br>foot intervals).                           | cres? (You can estimate the area of your property by stepping it     |
| W      | hat po  | ortion of your property will drain to your featu   | .re? 60+ percent (see site map for better estimate)                  |
|        |         | any neighboring properties, if any, will drain t   |  |
|        |         | e neighbors, how many are also submitting a  |  |
| rain t | o the   | feature)? House footprint is 1,812 sq. ft, so  |  |
| /hat i | is the  | number of square feet of the lawn area to be   | e converted, or woodland to be restored?                             |
| /hat i | is you  | r maintenance plan?  | n barrels and a new diversion of a downspout so the only             |
| main   | tenan   | ce is my normal gardening, plus maintainin   | g the barrels themselves.  |
| udg    | tat     |  |  |
| -      | n Cost  | t S <sup>0</sup>   | hat is the estimated rebate  |
| -      |         | Collect & Carls here's S   | nount requested (maximum   |
|        | als Co  | Dol gt Giverter Gourdant 1 0 3107  | 3% of documented costs)?   |
| -      | Cost    | 7  | 450  |
| OB     | 260     | al 13 300 (3 / Jone 14   | 1  |
| line v | vil ins | tall the landscaping? Please check one:  | Do it yourself Contractor  |
| usin   | a a co  | ontractor, name up to three that you plan to c   | or have solicited bids from. (Participating contractors are required |
| o atte | nd an   | informational meeting on Feb. 6, from 8:00-  | -10:30 a.m. at Frontenac City Hall.) If you are installing your own  |
| ndso   | aping   | a, workshop attendance is optional.  |  |
|        |         |  |  |
|        |         |  |  |
| lutr   | each    |  |  |
| res    | No      | Please check "Yes" or "No" for each o  | question   |
| 凶      |         | Is project visible from the street or publicly   |  |
| Ø      |         | completion to keep on file and to use in pu  |  |
| Ø      |         | Are you interested in offering your site for a<br>assistance with your RainScaping installat | a "volunteer day" training workshop and receiving volunteer<br>tion? |
| lan    |         | Agreement  |  |
| -      |         | read and agree with all RainScape  |  |
| 88, I  | nave    | read and agree with all handcape   | Desticionent Clanada en  |

Yes, I have road and agree with all HainSca, Rebates program requirements.

3

Participant Signature

4

## **Budget – Needs Improvement**

| BUDGET         |         |        |
|----------------|---------|--------|
| Design Cost    | 8-      |        |
| Materials Cost | \$ 1500 | # 2330 |
| Labor Cost     | \$ (500 |        |
| TOTAL COST     | \$ 3000 | 3830   |

What is the estimated rebate amount requested (maximum 75% of documented costs)?

#### \$ 2000

100 Course e Barrel Rain No. 10 400 Plants (Trags BUDGET 850 50.00 Shubs  $l \propto t$ What is the estimated rebate amount requested \$. Design Cost 2.500.00 [maximum 75% of documented costs]? 000.00 \$. Materials Cost ð ŝ. Labor Cost 12 0 -000 000 S TOTAL COST

## **Detailed Budget - Good**

#### Itemized Material Schedule

(Landowner)

| Plantings  |                                   |            | Price per          | Extended  |
|--|-----------------------------------|------------|--------------------|---|
| Quantity   | Common Name                       | Size       | Plant              | Total   |
|  | Itea Little Henry                 | 3 Gal      | \$31               | \$244   |
| 3  | Red Twig Dogwood - Variegated     | 5 Gal      | \$38               | \$113   |
|  | Monarda                           | 1 Gal      | \$9                |   |
|  | Carex Evergold                    | 1 Gal      | \$12               |   |
| 6  | Palm Sedge                        | 1 Qt       | \$6                |   |
| 2  | Shining Bluestar                  | 1 Qt       | \$6                | the second se   |
|  | Swamp Milkweed                    | 50 mm (2") | \$3                | and the second se |
| 3  | Little Joe Joe Pye                | 1 Qt       | \$6                |   |
| Other Materials  |                                   |            |                    |   |
| Item   |                                   |            |                    | Total   |
| Mulch - 2.5 CY   |                                   |            |                    | \$70  |
| Fabric 100 SF  |                                   |            |                    | \$40  |
| Smaller stone in creek bed - Missouri Red Granite 3/4" 1.5 | Tons                              |            |                    | \$203   |
| Larger rocks scattered through creek bed - Squaw Valley R  | Rainbow Cobblers 4 - 10" .75 Tons | 1          |                    | \$443   |
|  |                                   |            | Total<br>Materials | \$1,377   |

## **Detailed Budget - Good**

(Landowner)

Itemized Budget – Deer Creek Watershed Rainscaping Application

| Item                              | Unit Cost | #     | Total cost | Vendor                        |
|-----------------------------------|-----------|-------|------------|-------------------------------|
| Rainbarrel – 75 gallons           | \$249     | 2     | 498.00     | Rainwater Harvesting Supply   |
| Kallibarier - 75 Ballous          | <b>*-</b> |       |            | Company                       |
| Plants (w tax, S/H)               |           | See   | 258.81     | Missouri Wildflower Nursery   |
|                                   |           | chart |            |                               |
| Slow Drip hoses (attach           | 10.50     | 2     | 21.00      | Home Depot – Gilmour 5/8 x 25 |
| to each rainbarrel)               | 10.00     |       |            | ft flat soaker hose           |
|                                   | 5.80      | 5     | 29.00      | Home Depo                     |
| Step stones<br>Subtotal materials | 5.00      |       | 806.81     |                               |
| Subtotal materials                |           |       |            | ्रा<br>अ                      |
|                                   | 180       | 2     | 360        | Installing rainbarrels        |
| Labor                             | 100       | -     |            |                               |
|                                   |           |       | 1166.81    |                               |
| Total                             |           |       |            |                               |
|                                   |           |       |            |                               |

## Plant List – Needs Improvement

Great list of plants – but don't put it in narrative form.

Harder to pull out the information and we might miss something!

Also needs numbers and spacing of individual plant species.

#### Original Design

Rain garden

A vigorous course of water comes from a neighbors dry creek positioned to dispose water directly into property, causing the property to provide a course of tampered grass the water follows through property and eventually to street. Water also comes from a couple sloped areas on property that's not connected to dry creek, but makes way to selected areas of course. I will tackle problem from many angles, starting with a rain garden right where immense water comes from neighbor dry creek entering the rainscape. The rain garden will act as an immediate intake of a great amount of water and the feeding a grove of elderberries. The rain garden will consist of mulch, compost, and plants such as elderberry, turtlehead, queen of prairie, bidens, jewelweed, lobelia, sw<u>amp ros</u>e, culvers root, sweet coneflower, monkey flower, orange coneflower. A great deal of water will be absorbed here. Excess water will exit from an overflow guidance feature into a bioswale/restored turfgrass area.

#### Bioswale/ turfgrass restoration A

After rain garden, excess water and some water from a slight slope will enter into a swale and a native plant restored area to nestle water, slow remaining flows, and intake more water. This is all within a natural evolved course of water flow, mostly created with involvement of neighbor dry creek. The swale will have a bit of rock/gravel to grasp flow but mainly swale and turf restoration will be mulch, compost, plants. Both areas will have similar perennials of Echinacea, liatris, rattlesnake master, coreopsis, beardtongue, aster, amsonia, baptisia, obedient plant, rudbeckia. I do want to feature a lovely shrub amelanchier lamarkii (juneberry). The is an existing cherry tree of great height that I will end area at.

#### Swale turf grass restoration B slight slope

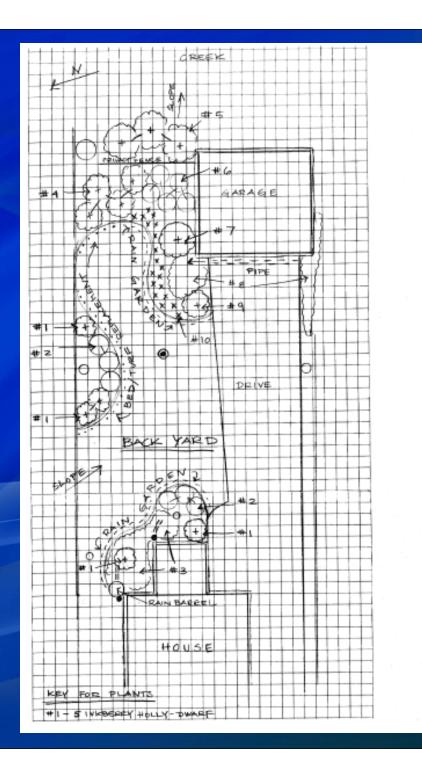
After bioswale and tr A there will be a halt in (rainscape) within an area I would consider minor after all previous intake. But down a little further course there is a slight slope that bring water into course, this is where on course I will tackle some intake of water, with a turfgrass restored area. This area will be amended with some mulch and compost and planted with cool standout absorbtion plants such as old field goldenrod, phlox paniculata, squaw weed, and spiderwort.

#### Turfgrass restoration and slope

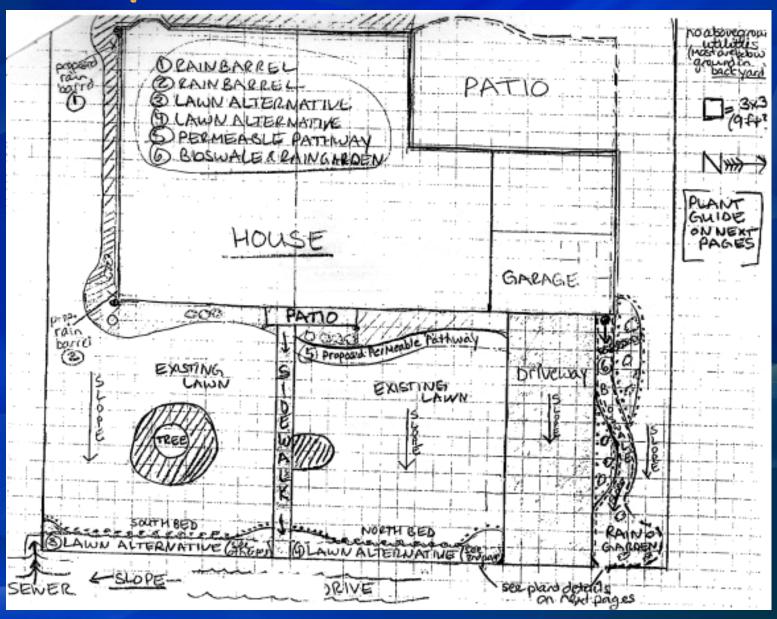
At this point a lot of areas within course have been tackled with gardens, swales, rain garden. At end of course and last stop before hitting the road from a slope I want to create a shrubby blockade absorbency area to keep any water from continuing on I finely arranged planting of hazelnut, callicarpa, ninebark, golden currant, wild hydrangea, viburnum, witch hazel, glossy buckthorn, and a perennial aralia racemosa.

## Landscape Plan -Good

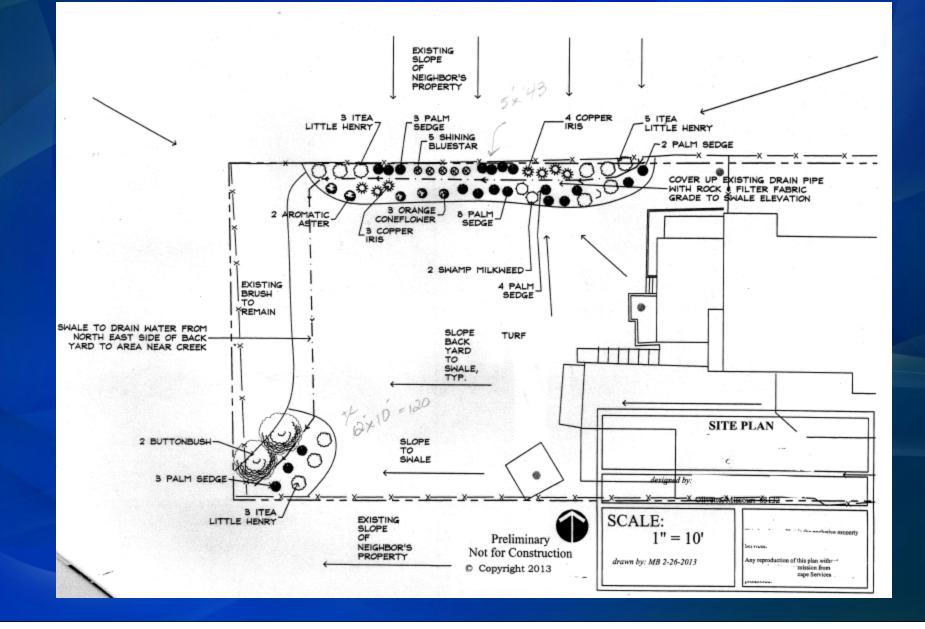
|         |          |   | #  | 1-  |     |          |    |     |       |     | #   | 3   | e e   | E     | -  |    |          |   |    |   |  |   |   |    | 4    | 0 |   | 40  | t.   |
|---------|----------|---|----|-----|-----|----------|----|-----|-------|-----|-----|-----|-------|-------|----|----|----------|---|----|---|--|---|---|----|------|---|---|-----|--|
|         |          |   |    |     |     |          |    |     |       | ł   | 0   | v   | 5     | E     |    |    |          |   |    |   |  |   |   | łc | 10-1 | e |   | IS. |  |
| ¥    ¥  | EY<br>I- | - | -  | R   | -   | -        | 11 | 4   | -     | X   | -7  | DW. | 4.6   | e     |    | 5  | 4        |   |    |   |  | 1 |   |    |      |   | _ |     | -  |
| # # # # | -        |   | Þ١ | to: | NIL | ATD      | 11 | 201 | D F F | E.C |     |     | A     | 10.00 | (2 | -  | в        |   | Q  | 4 |  |   |   |    |      |   |   |     |  |
| # # #   | 67       | - | 5  | 6   | BC  | AT<br>TT | S  | E   | E BR  | US  | ++  | F   | Ci su | GK    |    | YE |          | 3 | 61 | > |  |   |   |    |      |   |   |     |  |
| ##<br>  | 000      | - | 1  |     | ŧ   |          | A  | m   |       | BE  | E12 | R   | 1     | BI    | is |    | (-<br>QT | 6 |    |   |  |   |   |    |      |   |   |     |  |
|         | 5        | c | A  |     | E   |          |    | :   | 2     | ŧ1  |     | 14  | 3"    | -1    | )  |    |          |   |    |   |  | _ |   | -  |      |   |   |     | and the second sec |
|         |          | _ | ,  | +   | -   |          |    |     |       |     |     |     |       |       |    |    |          |   |    |   |  |   | - |    |      |   | - |     |  |



## Landscape Plan - Good

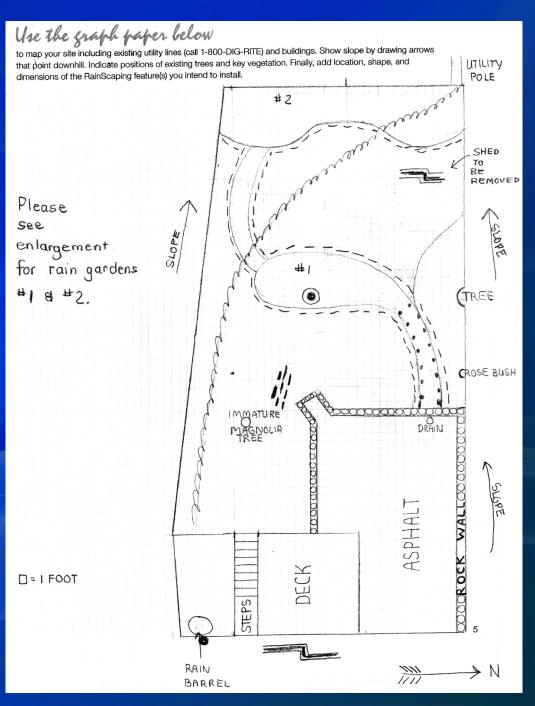


## Landscape Plan - Good



## Landscape Plan Best

## Includes an overview map AND...



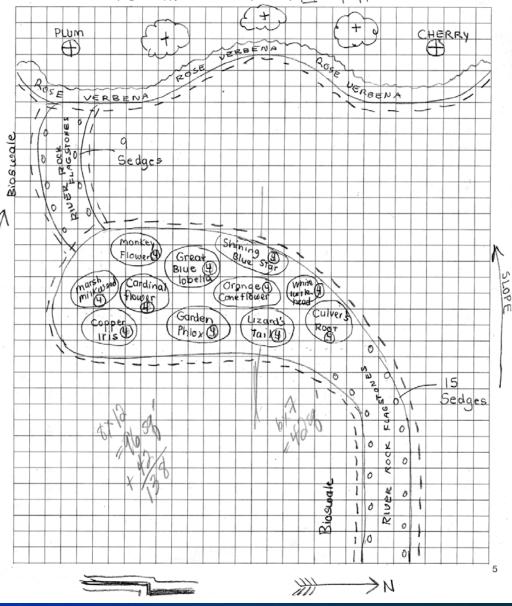
## Landscape Plan Best

# ... a close-up design of individual feature(s)

#### ENLARGEMENT

#### Use the graph paper below

to map your site including existing utility lines (call 1-800-DIG-RITE) and buildings. Show slope by drawing arrows that point downhill. Indicate positions of existing trees and key vegetation. Finally, add location, shape, and dimensions of the RainScaping feature(s) you intend to install  $(\frac{1}{4^{n}} = 2ft)$ .



## Photos - Good

Current condition photos, construction to begin in 30 days or less



View looking South from North corner of Dr. to 1 red taped tree to be removed, yellow stake op of new modular block wall. All trees and invasive honeysuckle to be removed to left of red line, which is new wall line.



View looking North from

" 'owards

items to be cleared to right of red line.

## Photos - Good

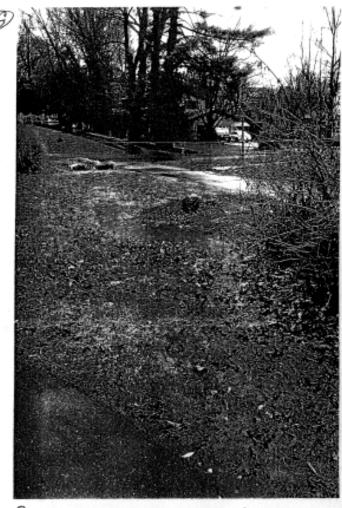


PHOTO SHOWING SAME FLOW AS PHOTO F-THIS PHOTO FROM SAME SPICING 2013 RAIN AS PHOTOS B+L.

(lavdowner name+address)

## Photos – Need Improvement



## Photos – Needs Improvement



#### \*No label

\* Shows that landscaping going into a pre-existing landscape

### Completion Form -Good /Creek Watershed Alliance roject of Wissouri BOLANICAL GARDIN

Amount Awarded: \$2,000

#### Final Project Detail

Address:

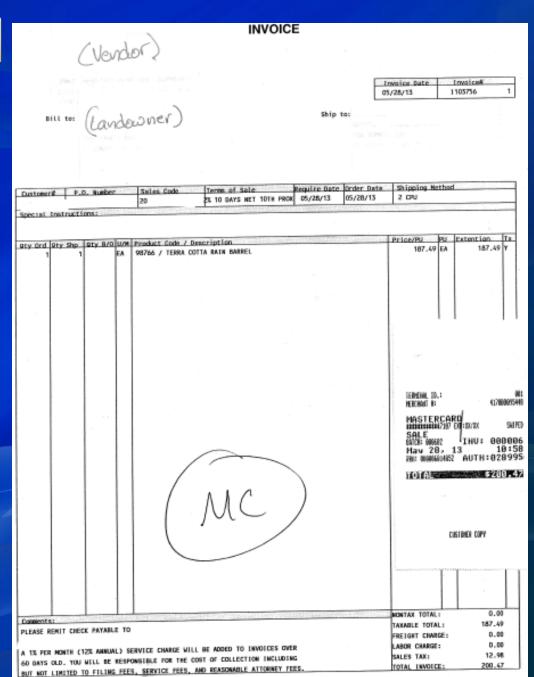
Complete the form below for each rainscaping feature included in your original design. This form MUST accompany 

| Project Completion For       | nm.                 |                     |   |
|------------------------------|---------------------|---------------------|---|
| Feature Description &        | If a Plant-Based    | If a Plant-Based    | Comments: Is final design the same or different from the      |
| Estimated Size in            | Feature:            | Feature:            | initial design?   |
| Original Design              | Plant List & Number | Plant List & Number | NOTE: Plant alternatives must be "like" plants (i.e. a native |
|                              | of Plants in        | of Plants in        | plant substituted for a native plant). Significant changes in |
| (i.e. 100 sq. ft. rain       | Original Design     | Final Design        | plant(s) or sizes MUST be pre-approved with RainScaping       |
| garden, 2, 55-gallon         |                     |                     | Committee before implementation. If significant changes       |
| rain barrels etc.)           | (attach a separate  | (attach a separate  | have occurred, please attach a copy of approval               |
|                              | sheet if necessary) | sheet if necessary) | notice/email for that change with this form.                  |
|                              |                     |                     | (attach a separate sheet if necessary)                        |
| Feature # 100                | SEE ATTACHED        | PLANTED (2)         | ONLY @ SUM CHANGES TO INTOM DESIGN                            |
| RAIN GARDEN                  | 7.15.2013           | MOKE GDATE' #       | OWNS@MORE 'GOATE BEALD' PLANTS                                |
|                              | OKAWING +           | BEARD'PLANTS        | PLANTED, SEE PHOTOM FORMORE INFORMATION.                      |
|                              | PLANT USTING        | TOTALING 119 1      | 2) MULCH PATHONN FROM BICSWALE PSATE                          |
|                              | OF APPLICATION      |                     | EXILTS INTO LAWN, NOT DRIVENITY ON                            |
|                              |                     | SEE PHOTO M'        | SOUTH SIDE.   |
|                              | PLANTS.             | ALSO SEC MU         | NO CHANDER IN PLANTS, SIZES, APPLICATI                        |
|                              | COMOUS:             | PHOTOS'A-X'         | OR RESIDN.  |
|                              |                     | HUU2 Nº A           | DECOLATIVE STONEST  |
| Feature #2                   | NO VEBERATION       | SEE PHOTOS          | WIDER STEPPING STONES ADDED FOR                               |
| Diminar                      | IN SITE SEE         |                     | FUNCTIONALITY + ASTHETILS- OTHERWIKE                          |
| BIOSWALE                     | DRAWING +           | CF Promotion        | THE SAME. ALL MATERIAL/GRAVEL                                 |
|                              |                     |                     | INSTALLED TO SPECIFICATION ON                                 |
|                              | APPLICATION         |                     | APPLIATION DEPTH AS WELL.                                     |
|                              |                     |                     | GIVLLON TON - VEVIA AS MADE                                   |
|                              |                     |                     |   |
| Feature #3<br>Appl BARDELS + | NONE                | NONE                | INVASINE HONERSOCKIE + ORNAMENTAL                             |
| 24IN BARRELS +               | 100100              |                     | GRASSES, EUDNIMANS GRANDCOURSE                                |
| REMOVED                      |                     |                     | REMOVED MONS DRIVE-TURF GRASS                                 |
| KERNOVEN                     |                     |                     | REMOVED IN FRATURESHE STES.                                   |
|                              |                     |                     | RAIN BARAR  |
|                              |                     |                     | KANNO BANKKEZ   |
|                              |                     |                     |   |
|                              |                     | 1                   |   |
|                              | WAANTS RA           |                     |   |

9.5.13 SEPTEMBER 24,2013.

## **Receipts - Good**

- Includes date
- Includes vendor name
- Includes landowner name
- Detailed listing of what was purchased, amount and cost
- Receipt showing payment is attached



## **Receipts - Good**

- Includes date
- Includes vendor name
- Includes landowner name
- Detailed listing of what was purchased, amount and cost
- Installation included in line items (preferable if include more details such as hourly rate, # of hours, dates work completed etc.)
- Receipt marked showing that landowner paid

| (Vendor)   |  | 1   | 1  |   |             | Inv   | voice  |
|--|--|---|--|---|-------------|---|--|
| Web Site   |  |   |  |   | De          | ate I   | Invoice #  |
|  |  | ditas   |  |   | 6/8/        | 2013  | 4416T  |
|  |  |   |  |   |             |   |  |
| (  |  | 1720  |  |   |             | Ρ.  | .O. No.  |
| Landow   | ner)   | 0.0   |  |   |             | /   |  |
|  |  |   |  |   |             |   |  |
|  |  |   |  |   |             |   |  |
|  | Descrip  | tion  | Rat  | e   | Serviced    | Qty   | Amount   |
| 15 gal, llex opaca <sup>1</sup><br>3 gal. Aesculus paw<br>3 gal. Comus altern<br>5 gal. Asimina trilot<br>3 gal. Asimina trilot<br>3 gal. Chionanthus<br>3 gal. Spirea tomen<br>3 gal. Symphorican<br>5 gal llex verticillata<br>5 gal. llex verticillata<br>5 gal. llex verticillata<br>5 gal. llex verticillata<br>3 gal. Armsonia hub<br>1 gal. Callicarpa an<br>yard Oak Bark Muic<br>1 gal. Roundup Qui<br>installation | ia (Red Buckey<br>ifolia (Pagoda<br>alnifolia Tree F<br>xa (Paw Paw)<br>virginicus (Frin<br>(Virginia Sweet<br>tosa (Hardhac)<br>os orbiculatus<br>virtor Red" (a<br>a 'Winter Red" (a<br>a 'Winter Red" (a<br>a 'Southern Ge<br>rborescens (Sn<br>vichtii (Narrow-<br>nericana (Beau<br>h | e)<br>Dogwood)<br>orm (Serviceberry)<br>geTree)<br>k Spirea)<br>(Coral Berry)<br>Winterberry Holly)<br>Winterberry Holly)<br>Winterberry Holly)<br>ntleman' (Male Winterberry)<br>nooth Hydrangea)<br>leaf Blue Star) | 3<br>2<br>2<br>4<br>2<br>2<br>2<br>4<br>2<br>2<br>2<br>1<br>3<br>2<br>1<br>2<br>2<br>1<br>2<br>2<br>1<br>2<br>2<br>1<br>2<br>2<br>2<br>1<br>2<br>2<br>2<br>2 | 2.00<br>0.00<br>4.00<br>0.00<br>8.00<br>4.00<br>0.00<br>0.00<br>0 |             | 1<br>3<br>3<br>1<br>1<br>1<br>5<br>7<br>7<br>1<br>1<br>6<br>10<br>7<br>12<br>10 | 30.007<br>24.007<br>60.007<br>144.007<br>220.007<br>126.007<br>210.007<br>20.007<br>10.007<br>70.007<br>70.007<br>312.001<br>100.001 |
|  |  |   |  | Subt  | s Tax (6.92 | 596)  | \$3,812.00   |
|  |  |   | sale   | 5 180 (0.92   | erra.30     |   |  |
|  |  |   |  |   |             |   |  |
| Phone #  | Fax#   | E-mail  | · .  | Tota  | d           |   | \$3,985.96   |

## **Receipts - Good**

- Includes date
- Detailed list of what was purchased and costs
- Shows landowner paid
- Landowner labeled what receipt was for
- COULD add a number to label this copy to coincide with listing in budget summary
- IF PAY SOMETHING WITH CHECK – prefer that copy of cancelled check also included

| Powers for<br>Rain Barrels  |  |
|---|--|
| Soaber<br>More saving.  |  |
| BS01 P.V.E AVENUE<br>OVERLAND, NO 601114 (214) 733-1534   |  |
| 3037 00029 31772 09/12/13 06:53 PM<br>CASHLER WALLIN - KCH0795  |  |
| 00089' 098485 MP 9" MTI <a> 2.97<br/>" WTI PRO 9" 14/24 TPI<br/>034 _1504762 25' \$0.000050 <a><br/>5 "FLAT SDAKER HOSE</a></a>   |  |
| 99,97 19.94<br>J8980003 BASE SAND ≪A= 3.27<br>STEP 2 LEVELING SAND<br>(04-0375045 GLO STAKES ≪A= 7.98<br>JOH#SON GLO GRANGE FLAG S" →S 100PK<br>U000-166-605 SS LG CAFE ≪A=                             |  |
| CAFE LARGE SUMBLESTONE ~ A<br>1692.36 47.68<br>0000-165-555 RS MN CAFE<br>CAFE MEDDUN RUMBLE ~ BLOCK<br>12001-65-156 RS MN C4 - A><br>23.76   |  |
| CAFE MINI RUMBLES: & BLOCK<br>440,58 2.32<br>0000-253-398 7INBES FE =A=<br>7 N 7" RUMBLESTON SOUMRE- CAFE<br>201.16 2.32  |  |
| SLUTOTAL 110.24<br>SALES TAX 8.46<br>TOTAL \$118.70<br>ISA 118.70<br>AUTH CODE 062420/9230.49 TA  |  |
| 3037 29 31772 09/12/2013 0301   |  |
| RETURN POLICY DEFINITIONS<br>POLICY ID DAYS POLICY EXPIRES ON<br>A 1 90<br>THE HOME DEPUT RESERVES THE RIGHT TO<br>LIMIT / DENY RETURNS. PLEASE SEE THE<br>RETURN POLICY SIGN IN STORES FOR<br>DETAILS. |  |
| BUY ONLINE PICK-UP IN STORE<br>AVAILABLE NON ON HOMEDEPOT.COM.<br>CONVENIENT, EASY AND MOST ORDERS<br>READY IN LESS THAN 2 HOURS!   |  |
|   |  |

## Receipts – Need Improvement

(Landowners 1st name) 15 cardinal ex 500 15 serves sedge ett2:00 8 Golden Alter ett2:00 5 De Pyre ett2:00 5 De Pyre ett2:00 30 30 16

- No vendor name
- Only includes landowner's first name
- No date
- Vague listing of items purchased
- Nothing denoting that landowner paid

Better...but, •No individual pricing for items •Ideally should be on a form

5/10/13 Recrewed from (Landowner) for 10 Dec Poyc Weed 5 hiddels Halden rod 4 Saft Ruch

**Dates to Remember** Optional Landowner Orientations Thursday, January 9 Saturday, January 11 Applications Due Wednesday, February 12 Applicants Notified Friday, March 15

# The Basics of Rainscaping

# Rainscaping Cost Comparisons

## Thank you!!

## **Additional Questions?**