

- (30cm) |-

Project: Standard Channel Layout, Unroll w/Flow - RECP

appropriate for field conditions

*Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface.

CRITICAL POINTS

B. Projected Water Line

C. Channel Bottom/Side Slope Vertices

Instructions

1. Prepare soil before installing rolled erosion control

products (RECPs), including any necessary application of lime, fertilizer, and seed. Ground surface must be free of

debris, rocks, clay clods and raked smooth sufficient to

allow intimate contact of the RECP with the soil over the

2. Begin at the top of the channel by anchoring the RECPs in

a 6" (15 cm) deep X 6" (15 cm) wide trench with

up-slope portion of the trench. Use ShoreMax mat at the

channel/culvert outlet as supplemental scour protection

as needed. Anchor the RECPs with a row of

staples/stakes/pins approximately 12" (30 cm) apart in

rench after stapling. Apply seed to the compacted soil

and fold the remaining 12" (30 cm) portion of RECPs back

over the seed and compacted soil. Secure RECPs over

compacted soil with a row of staples/stakes/pins

spaced approximately 12" (30 cm) apart across the width

3. Roll center RECPs in direction of water flow in bottom of

channel. RECPs will unroll with appropriate side against

the soil surface. All RECPs must be securely fastened to soil surface by placing staples/stakes/pins in appropriate

4. Place consecutive RECPs end-over-end (Shingle style) with

staggered 4" apart and 4" on center to secure RECPs.

Backfill and compact the trench after stapling.

5. Adjacent RECPs must be overlapped approximately 4"- 6"

a 4"- 6" (10 - 15 cm) overlap. Use a double row of staples

5. Full length edge of RECPs at top of side slopes must be

apart in a 6" (15 cm) deep X 6"(15 cm) wide trench.

7. In high flow channel applications a staple check slot is

double row of staples staggered 6" (15 cm) apart and 12"

(30 cm) on center over entire width of the channel.

the trench after stapling.

Shown: Isometric View of Channel, Fastener Placement, Trenching and Overlap, Some Fasteners and Vegetation

8. The terminal end of the RECPs must be anchored with a

row of staples/stakes/pins spaced at S_T apart in a 6" (15

cm) deep X 6" (15 cm) wide trench. Backfill and compact

9. Fasteners should provide a minimum of twenty pounds of

pullout resistance. Six-inch (10 cm) X one-inch (2.5 cm)

eleven gauge staples are typically adequate. In loose

soils, longer staples may be necessary, twist pins can

provide the greatest pullout resistance. In hard or rocky

soils, straight pins may by used where staples or twist pins are refused, provided the minimum pullout requirements

VMax (TRM) or TMax (HPTRM) materials.

recommended at 30 to 40 foot (9 -12m) intervals. Use a

(10 - 15 cm) and secured with staples/stakes/pins at S_T.

locations as shown in the staple pattern guide.

of the RECPs.

the bottom of the trench. Backfill and compact the

Staple Pattern

Guide

Roll Roll Overlap

appropriate for field conditions

Required Min. 20# Pullout

Pin / Staple / Twist Pin, as

Dimension

Frequency

Upper Roll-

20" (50 cm)

20" (50 cm)

18" (45 cm)

3.8 / SY

Date: 5/3/2022

WG: 886-540-9810

www.nagreen.com

www.westerngreen.com

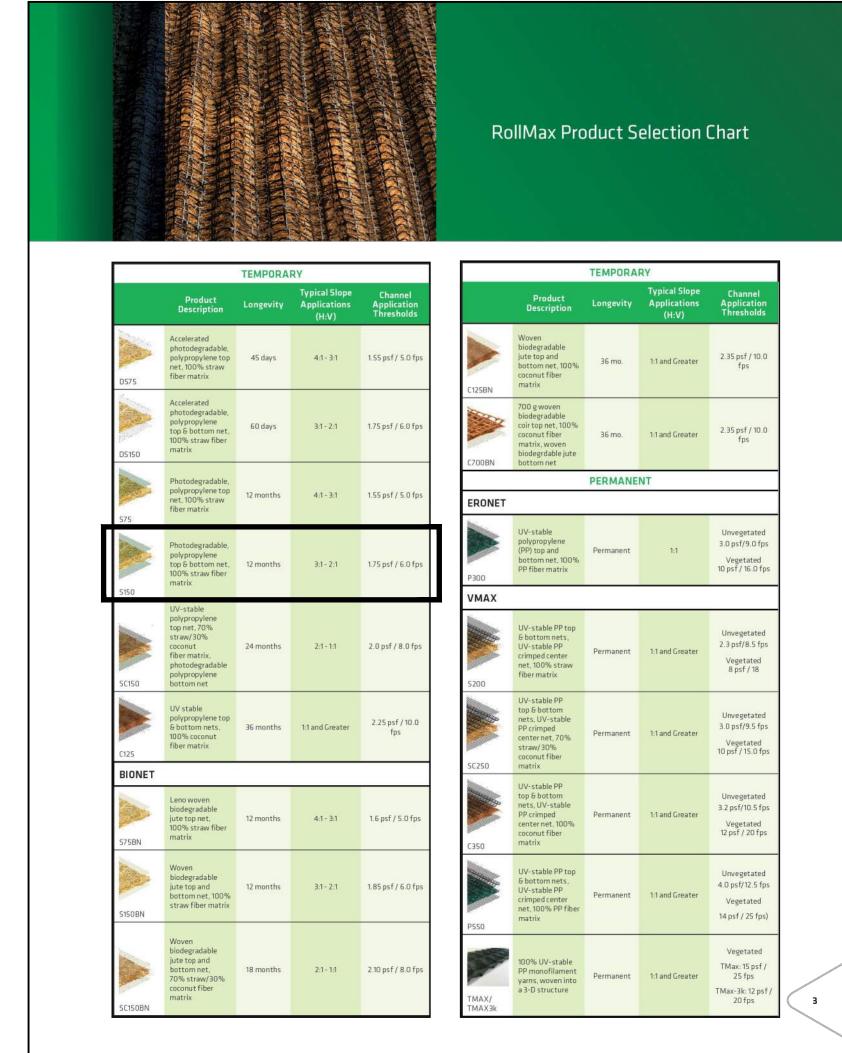
www.westernexcelsior.com

Plan View

4-6" (10-15 cm)

A - + - 1





LANDSCAPE GUIDELINE SPECS

- GENERAL:
 ALL LANDSCAPE MATERIAL SHALL CONFORM TO THE CITY OF O'FALLON STANDARDS AND SPECIFICATIONS.
 ALL NATURAL VEGETATION SHALL BE MAINTAINED WHERE IT DOES NOT INTERFERE WITH CONSTRUCTION OR THE PERMANENT PLAN OF OPERATION. EVERY EFFORT POSSIBLE SHALL BE MADE TO PROTECT EXISTING VEGETATION OR STRUCTURES FROM DAMAGE DUE TO EQUIPMENT USAGE. AT ALL TIMES THE CONTRACTOR SHALL BROTECT ALL MATERIALS AND WORK ACAINST INJURY TO THE BURLIC.
 - SHALL PROTECT ALL MATERIALS AND WORK AGAINST INJURY TO THE PUBLIC.

 3. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH OTHER SITE RELATED WORK BEING PERFORMED BY OTHER CONTRACTORS. REFER TO ARCHITECTURAL DRAWINGS FOR FURTHER COORDINATION OF WORK TO BE DONE.

 4. UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS NOT PRESENTLY SHOWN OR KNOWN. IT SHALL BE THE LANDSCAPE CONTRACTOR'S
- RESPONSIBILITY TO DETERMINE OR VERIFY THE EXISTENCE OF AND EXACT LOCATION OF ALL UTILITIES. (CALL 1-800-DIG-RITE)

 5. PLANT MATERIAL ARE TO BE PLANTED IN THE SAME RELATIONSHIP TO GRADE AS WAS GROWN IN NURSERY CONDITIONS. ALL PLANTING BEDS SHALL BE CULTIVATED TO A DEPTH OF 6" MINIMUM AND GRADED SMOOTH IMMEDIATELY BEFORE PLANTING OF PLANTS. PLANT GROUNDCOVER TO WITHIN 12" OF TRUNK OF TREES OR SHRUBS PLANTED WITHIN THE AREA.
- 6. IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO:A. VERIFY ALL EXISTING AND PROPOSED FEATURES SHOWN ON THE DRAWINGS

7. PROVIDE SINGLE-STEM TREES UNLESS OTHERWISE NOTED IN PLANT SCHEDULE.

- PRIOR TO COMMENCEMENT.

 B. REPORT ALL DISCREPANCIES FOUND WITH REGARD TO EXISTING
 CONDITIONS OR PROPOSED DESIGN TO THE ENGINEER OF RECORD IMMEDIATELY FOR A DECISION.
 C. STAKE THE LOCATIONS OF ALL PROPOSED PLANT MATERIAL AND OBTAIN THE APPROVAL OF THE
- OWNER'S REPRESENTATIVE OR ENGINEER OF RECORD PRIOR TO INSTALLATION.

 6. ITEMS SHOWN ON THIS DRAWING TAKE PRECEDENCE OVER THE MATERIAL LIST. IT SHALL BE THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL QUANTITIES AND CONDITIONS PRIOR TO IMPLEMENTATION OF THIS PLAN. NO SUBSTITUTIONS OF TYPES OR SIZE OF PLANT MATERIALS WILL BE ACCEPTED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.
- 8. ALL PLANT MATERIAL SHALL COMPLY WITH THE RECOMMENDATIONS AND REQUIREMENTS OF ANSI Z60.1 "AMERICAN STANDARDS FOR NURSERY STOCK".
 9. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE FOR INSPECTION OF THE PLANT MATERIAL BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE. PLANTS NOT CONFORMING EXACTLY TO THE PLANT
- LIST WILL NOT BE ACCEPTED AND SHALL BE REPLACED AT THE LANDSCAPE CONTRACTOR'S EXPENSE.

 10. ALL BIDS ARE TO HAVE UNIT PRICES LISTED. THE OWNER HAS THE OPTION TO DELETE ANY PORTION OF THE CONTRACT PRIOR TO SIGNING THE CONTRACT OR BEGINNING WORK. THIS WILL BE A UNIT PRICE CONTRACT.

 11. ALL PLANT MATERIAL TO BE TRANSPLANTED SHALL BE IN ACCORDANCE TO GUIDELINES SET BY AAN
- STANDARDS. TRANSPLANTED MATERIAL WILL NOT BE GUARANTEED BY THE LANDSCAPE CONTRACTOR.

 INSURANCE:

 1. THE LANDSCAPE CONTRACTOR SHALL SUBMIT CERTIFICATES OF INSURANCE FOR WORKMAN'S COMPENSATION AND GENERAL LIABILITY.

 ORGANIC MULCH:
- ALL ORGANIC MULCH SHALL BE DOUBLE GROUND HARDWOOD AT 3" DEPTH. MULCH SHALL BE CLEAN AND FREE OF ALL FOREIGN MATERIALS, INCLUDING WEEDS, ROCK, MOLD, OR OTHER DELETERIOUS MATERIALS.
 PROVIDE 4' DIAMETER MULCH RING AROUND ALL TREES AND SHRUBS NOT IN BEDS OR MASS PLANTINGS.
- PROVIDE 4' DIAMETER MULCH RING AROUND ALL TREES AND SHRUBS NOT IN BEDS OR MASS PLANTING THE MULCH RING SHALL BE 3" DEEP.
 MULCH BEDS NOT BORDERED BY CONCRETE CURBING OR WALKS SHALL BE SPADE CUT EDGE.
- MULCH BEDS NOT BORDERED BY CONCRETE CURBING OR WALKS SHALL BE SPADE CUT EDGE.
 NO FABRIC SHALL BE USED IN MULCH BEDS.
 INORGANIC MULCH
 INORGANIC MULCH SHALL BE IOWA RIVER GRAVEL AT 3" DEEP.
- A 5 OZ. WEED BARRIER FABRIC SHALL BE USED BENEATH ALL INORGANIC MULCH BEDS.
 INORGANIC MULCH BEDS NOT BORDERED BY CONCRETE CURBING OR WALKS SHALL BE BORDERED BY 3" X 4" PERMALOC CLEANLINE ALUMINUM EDGING WITH A MILL FINISH.
 TOPSOIL:
- LANDSCAPE BEDS SHALL HAVE 6" OF TOP SOIL PLACED.
 PROVIDE A SOIL ANALYSIS, AS REQUESTED, MADE BY AN INDEPENDENT SOIL-TESTING AGENCY OUTLINING
 THE PERCENTAGE (%) OF ORGANIC MATTER, INORGANIC MATTER, DELETERIOUS MATERIAL, PH AND
 MINERAL CONTENT, FOR EXISTING SOIL AND IMPORTED TOPSOIL.
 ANY FOREIGN TOPSOIL USED SHALL BE FREE OF ROOTS. STUMPS. WEEDS. BRUSH. STONES (LARGER THAN 1")
- ANY FOREIGN TOPSOIL USED SHALL BE FREE OF ROOTS, STUMPS, WEEDS, BRUSH, STONES (LARGER THAN 1"),
 LITTER OR ANY OTHER EXTRANEOUS OR TOXIC MATERIAL.
 LANDSCAPE CONTRACTOR TO APPLY PRE-EMERGENT HERBICIDE TO ALL PLANTING BEDS UPON
 COMPLETION OF PLANTING OPERATIONS AND BEFORE APPLICATION OF SHREDDED OAK BARK MULCH.
- PROVIDE STAKES AND GUY WIRES.
 TREE WRAP TAPE SHALL BE 4" MINIMUM, DESIGNED TO PREVENT BORER DAMAGE AND WINTER FREEZING. ADDITIONALLY, ONLY 3-PLY TYING MATERIAL SHALL BE USED.
- ALL DISTURBED LAWN AREAS TO BE SEEDED WITH A MIXTURE OF TURF-TYPE FESCUE (300# PER ACRE) AND BLUEGRASS (18# PER ACRE).
 ANY POINTS CARRYING CONCENTRATED WATER LOADS AND ALL SLOPES OF 33% OR GREATER SHALL BE SODDED AND STAPLED WITH SOD STAPLES TO SECURE IN PLACE.
 ALL SOD SHALL BE PLACED A MAXIMUM OF 24 HOURS AFTER HARVESTING.
- ALL SOD SHALL BE PLACED A MAXIMUM OF 24 HOURS AFTER HARVESTING.
 RECONDITION EXISTING LAWN AREAS DAMAGED BY CONTRACTOR'S OPERATIONS INCLUDING EQUIPMENT/ MATERIAL STORAGE AND MOVEMENT OF VEHICLES.
 SOD CONTRACTOR TO ENSURE SOD IS PLACED BELOW SIDEWALK AND ALL PAVED AREA ELEVATIONS TO ALLOW FOR PROPER DRAINAGE.

6. OFF-SITE LAND DISTURBED SHALL BE SODDED TO THE RIGHT OF WAY.

- WARRANTY:
 1. ALL PLANT MATERIAL (EXCLUDING GROUND COVER, PERENNIALS AND ANNUALS) ARE TO BE WARRANTED FOR A PERIOD OF 12 MONTHS AFTER INSTALLATION AT 100% OF THE INSTALLED PRICE.
 2. ANY PLANT MATERIAL FOUND TO BE DEFECTIVE SHALL BE REMOVED AND REPLACED WITHIN 30 DAYS OF
- ANY PLANT MATERIAL FOUND TO BE DEFECTIVE SHALL BE REMOVED AND REPLACED WITHIN 30 DAYS OF NOTIFICATION OR IN GROWTH SEASON DETERMINED TO BE BEST FOR THE PLANT.
 ONLY ONE REPLACEMENT PER TREE OR SHRUB SHALL BE REQUIRED AT THE END OF THE WARRANTY PERIOD, UNLESS LOSS IS DUE TO FAILURE TO COMPLY WITH WARRANTY.
- UNLESS LOSS IS DUE TO FAILURE TO COMPLY WITH WARRANTY.

 IRRIGATION:

 1. IRRIGATION SHALL BE DESIGN BUILD BY THE OWNER.

 2. IRRIGATION DRAWINGS SHALL BE REVIEWED BY ENGINEER OF RECORD PRIOR TO ORDERING OF PARTS

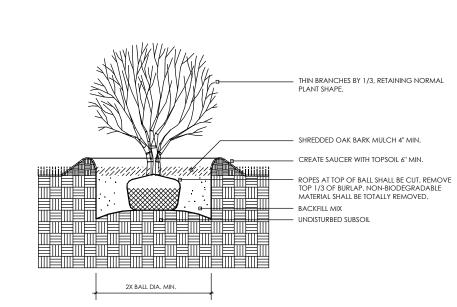
 AND COMMENCEMENT OF WORK.

3. IRRIGATION SLEEVES PROVIDED WITH THIS CONTRACT ARE SHOWN ON SHEET C-400.

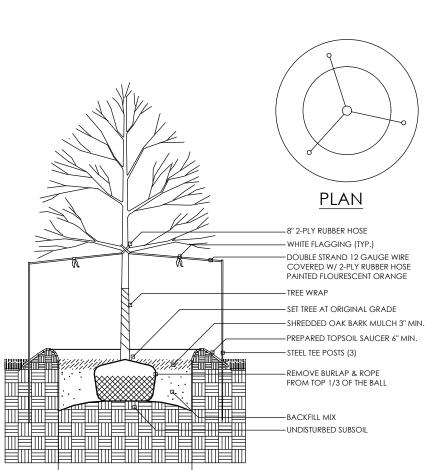
SPADE EDGE OF PLANTING BED SHREDDED OAK BARK MULCH 3" MIN. PREPARED PLANTING BED SEE SHRUB PLANTING FOR DETAILS

- UNDISTURBED SUBSOIL

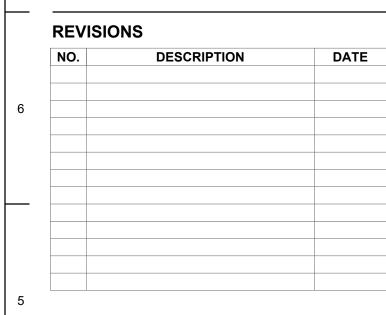
SPADE-CUT EDGE DETAIL



SHRUB PLANTING DETAIL



DECIDUOUS TREE PLANTING DETAIL



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DATE:02/02/2024 REVIEWED BY: M. FOGARTY

PROFESSIONAL
SEAL



PROJECT TITLE
O'FALLON PUBLIC WORKS FACILITY

PROJECT ADDRESS: 1101 OLD E TERRA LANE O'FALLON, MO 63366

LANDSCAPE PLAN DETAILS

L-101

UNDERGROUND UTILITIES AND OSHA SAFETY NOTE:

Underground utilities and structures have been plotted from available information and therefore, their location must be considered approximate only. It is the responsibility of the individual contractors to notify the utility companies before actual construction. All O.S.H.A rules and regulations established for the type of construction required by these plans shall be strictly followed (ie. trenching, blasting, etc.)

2. Dig anchor trench, 6" (15 cm) deep X 6" (15 cm) wide, at the upstream most edge of installation across the 4"- 6" channel. Begin at the top of the channel by unrolling the RECP across the channel, perpendicular to the direction of flow, cut to fit. Carefully flip the RECP panel upstream, leaving it upside down. Place the upside down leading edge in the trench. Anchor the RECP panel with a row o fasteners spaced at S_T apart in the bottom of the trench Backfill and compact the trench after fastening. With the Fasteners omitted for clarity RECP secured in the backfilled trench, flip the RECP panel 0/0/0/0/0/0/0/0/ over, right side up, over the backfill. The end result should mimic fig. 2. Secure RECP just downstream of trench with a row of fasteners located approximately 12" (30 cm) downstream from the trench, spaced at S_T . 3. Roll subsequent RECP panels across the channel, fitting Roll Roll Overlap the downstream panel under the upstream panel. RECP shall be unrolled with appropriate side against the soil Upper Rollsurface. All RECPs must be securely fastened to soil Pin / Staple / Twist Pin, as surface by placing twist pins in appropriate locations as appropriate for field conditions shown in the pin pattern guide. 4 Place consecutive RECPs end-over-end (Shingle style) with a 4"- 6" (10 - 15 cm) overlap, see fig.6. Secure overlaps as 5. Adjacent RECPs must be overlapped approximately 4"- 6" Dimension (10 - 15 cm) and secured with fasteners at S_T . 20" (50 cm) 6. The terminal end of the RECPs must be anchored with a row of fasteners spaced at S_T apart in a 6" (15 cm) deep X 20" (50 cm) appropriate for field conditions the trench after stapling. 18" (45 cm) 7. Fasteners should provide a minimum of twenty pounds of pullout resistance. Six-inch (10 cm) X one-inch (2.5 cm) 3.8 / SY eleven gauge staples are typically adequate. In loose soils, longer staples may be necessary, twist pins can provide the greatest pullout resistance. In hard or rocky A. Overlaps and Seams Min. 20# Pullout B. Projected Water Line soils, straight pins may by used where staples or twist pins C. Channel Bottom/Side Slope Vertices are met. Bio-degradable fasteners shall not be used with VMax (TRM) or TMax (HPTRM) materials. *Horizontal staple spacing should be altered if necessary to allow staples to secure the critical points along the channel surface. Project: Standard Channel Layout, Unroll Cross Flow - RECP Date: 5/3/2022 WG: 886-540-9810 www.westerngreen.com AMERICAN | Shown: Isometric View of Channel, Fastener Placement, Trenching and Overlap, Some Fasteners and Vegetation www.westernexcelsior.com www.nagreen.com

Instructions

1. Prepare soil (fig. 1) before installing rolled erosion control

products (RECPs), including any necessary application of

lime, fertilizer, and seed. Ground surface must be free of

debris, rocks, clay clods and raked smooth sufficient to

allow intimate contact of the RECP with the soil over the

entirety of the installation. Apply seed and amendments

to the compacted soil.

Staple Pattern

Guide

4-6" (10-15 cm)

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2X BALL DIA. MIN.