Green Corridor: Textile Road

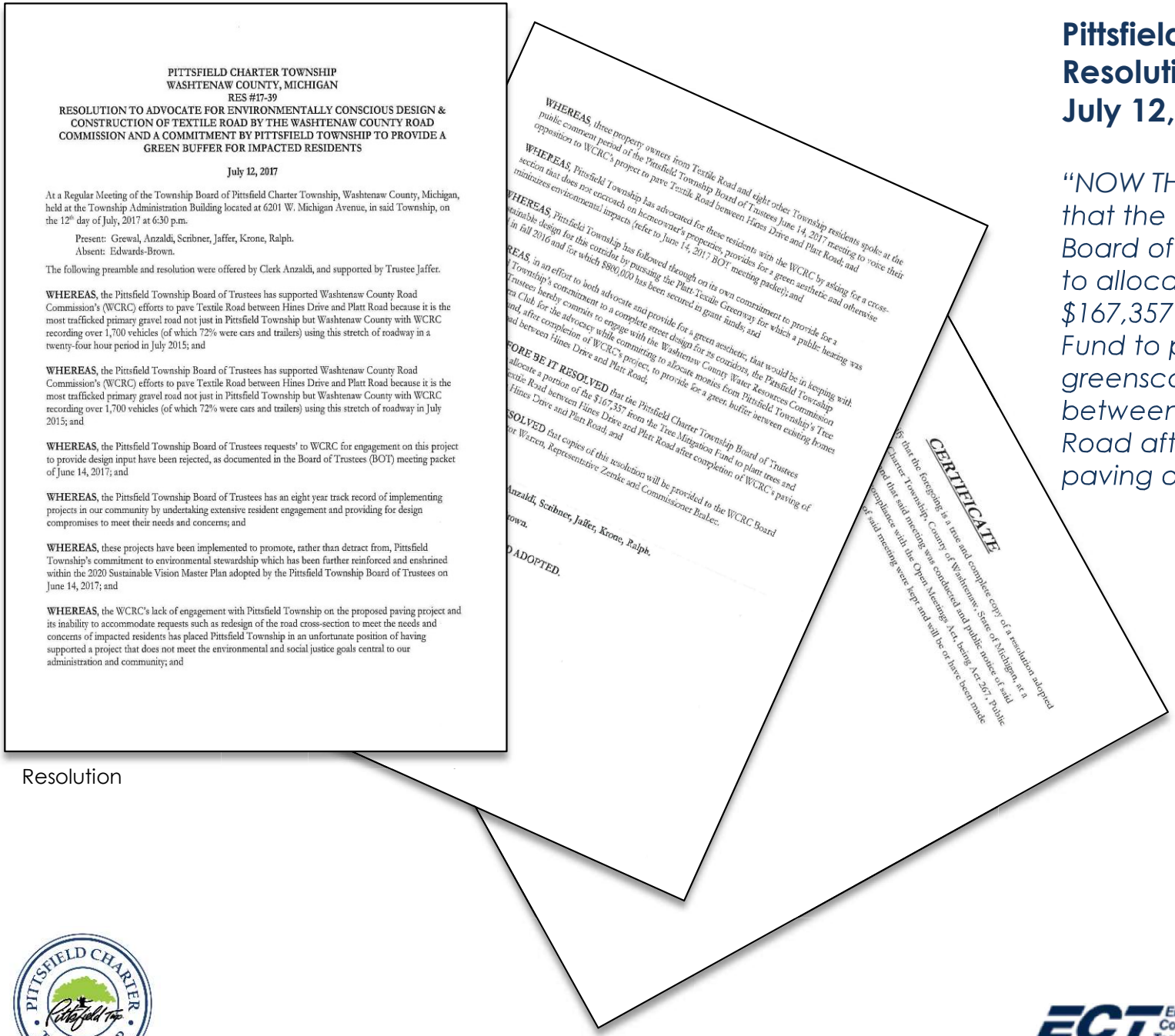
DRAFT PLAN

Pittsfield Charter Township

10.07.19

GREEN CORRIDOR: TEXTILE ROAD

DRAFT



PITTSFIELD CHARTER TOWNSHIP
WASHTENAW COUNTY, MICHIGAN
RES #17-39
RESOLUTION TO ADVOCATE FOR ENVIRONMENTALLY CONSCIOUS DESIGN & CONSTRUCTION OF TEXTILE ROAD BY THE WASHTENAW COUNTY ROAD COMMISSION AND A COMMITMENT BY PITTSFIELD TOWNSHIP TO PROVIDE A GREEN BUFFER FOR IMPACTED RESIDENTS

July 12, 2017

At a Regular Meeting of the Township Board of Pittsfield Charter Township, Washtenaw County, Michigan, held at the Township Administration Building located at 6201 W. Michigan Avenue, in said Township, on the 12th day of July, 2017 at 6:30 p.m.

Present: Grewal, Anzaldi, Scribner, Jaffer, Krone, Ralph.
Absent: Edwards-Brown.

The following preamble and resolution were offered by Clerk Anzaldi, and supported by Trustee Jaffer.

WHEREAS, the Pittsfield Township Board of Trustees has supported Washtenaw County Road Commission's (WCRC) efforts to pave Textile Road between Hines Drive and Platt Road because it is the most trafficked primary gravel road not just in Pittsfield Township but Washtenaw County with WCRC recording over 1,700 vehicles (of which 72% were cars and trailers) using this stretch of roadway in a twenty-four hour period in July 2015; and

WHEREAS, the Pittsfield Township Board of Trustees has supported Washtenaw County Road Commission's (WCRC) efforts to pave Textile Road between Hines Drive and Platt Road because it is the most trafficked primary gravel road not just in Pittsfield Township but Washtenaw County with WCRC recording over 1,700 vehicles (of which 72% were cars and trailers) using this stretch of roadway in July 2015; and

WHEREAS, the Pittsfield Township Board of Trustees requests' to WCRC for engagement on this project to provide design input have been rejected, as documented in the Board of Trustees (BOT) meeting packet of June 14, 2017; and

WHEREAS, the Pittsfield Township Board of Trustees has an eight year track record of implementing projects in our community by undertaking extensive resident engagement and providing for design compromises to meet their needs and concerns; and

WHEREAS, these projects have been implemented to promote, rather than detract from, Pittsfield Township's commitment to environmental stewardship which has been further reinforced and enshrined within the 2020 Sustainable Vision Master Plan adopted by the Pittsfield Township Board of Trustees on June 14, 2017; and

WHEREAS, the WCRC's lack of engagement with Pittsfield Township on the proposed paving project and its inability to accommodate requests such as redesign of the road cross-section to meet the needs and concerns of impacted residents has placed Pittsfield Township in an unfortunate position of having supported a project that does not meet the environmental and social justice goals central to our administration and community; and

WHEREAS, three property owners from Textile Road and eight other Township residents spoke at the public comment period of the Pittsfield Township Board of Trustees June 14, 2017 meeting to voice their opposition to WCRC's project to pave Textile Road between Hines Drive and Platt Road; and

WHEREAS, Pittsfield Township has advocated for these residents with the WCRC by asking for a cross-section that does not encroach on homeowner's properties, provides for a green aesthetic and otherwise minimizes environmental impacts (refer to June 14, 2017 BOT meeting packet); and

WHEREAS, Pittsfield Township has followed through on its own commitment to provide for a sustainable design for this corridor by pursuing the Platt-Textile Greenway for which a public hearing was held in fall 2016 and for which $800,000 has been secured in grant funds; and

WHEREAS, in an effort to both advocate and provide for a green aesthetic, that would be in keeping with Township's commitment to a complete street design for its corridors, the Pittsfield Township Tree Trustees hereby commits to engage with the Washtenaw County Water Resources Commission and, after completion of WCRC's project, to provide for a green, buffer between existing homes and between Hines Drive and Platt Road;

BEFORE BE IT RESOLVED that the Pittsfield Charter Township Board of Trustees allocate a portion of the $167,357 from the Tree Mitigation Fund to plant trees and textile Road between Hines Drive and Platt Road after completion of WCRC's paving of Hines Drive and Platt Road, and

RESOLVED that copies of this resolution will be provided to the WCRC Board for Warren, Representative Zemke and Commissioner Bralec.

Anzaldi, Scribner, Jaffer, Krone, Ralph.

town.

D ADOPTED.

CERTIFICATE

that the foregoing is a true and complete copy of a resolution adopted Charter Township, County of Washtenaw, State of Michigan, at a that said meeting was conducted and public notice of said compliance with the Open Meetings Act, being Act 267, Public of said meeting were kept and will be or have been made

Resolution

Pittsfield Charter Township Resolution 17-39 July 12, 2017

"NOW THEREFORE BE IT RESOLVED that the Pittsfield Charter Township Board of Trustees hereby commits to allocate a portion of the $167,357 from the Tree Mitigation Fund to plant trees and greenscapes along Textile Road between Hines Drive and Platt Road after completion of WCRC's paving of Textile Road"

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GREEN CORRIDOR: TEXTILE ROAD

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Recommended Green Corridor Components:

1. Landscape Enhancements
   - Public Property
   - Pittsfield's Resolution Funding - Greenscapes

2. Textile Road Tree Planting
   - Private Property (need owner's cooperation)
   - Pittsfield's Resolution Funding

3. Green Infrastructure
   - Public Property
   - SEMCOG Funding - Stormwater

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1. Landscape Enhancements - Greenscapes

GREEN CORRIDOR: TEXTILE ROAD

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Plant list of native species based on historic records

From General Land Survey Office – Michigan Territory
Township 03 South Range 06 East – Pittsfield Township
Volume 0043 - Survey Notes Pittsfield Twp, Washtenaw County
June 8th & 9th, 1819, Surveyor: Wampler, Joseph (1783 - 1842)

West on Boundary Line Between Sections 22 & 27 *(Page 26)*

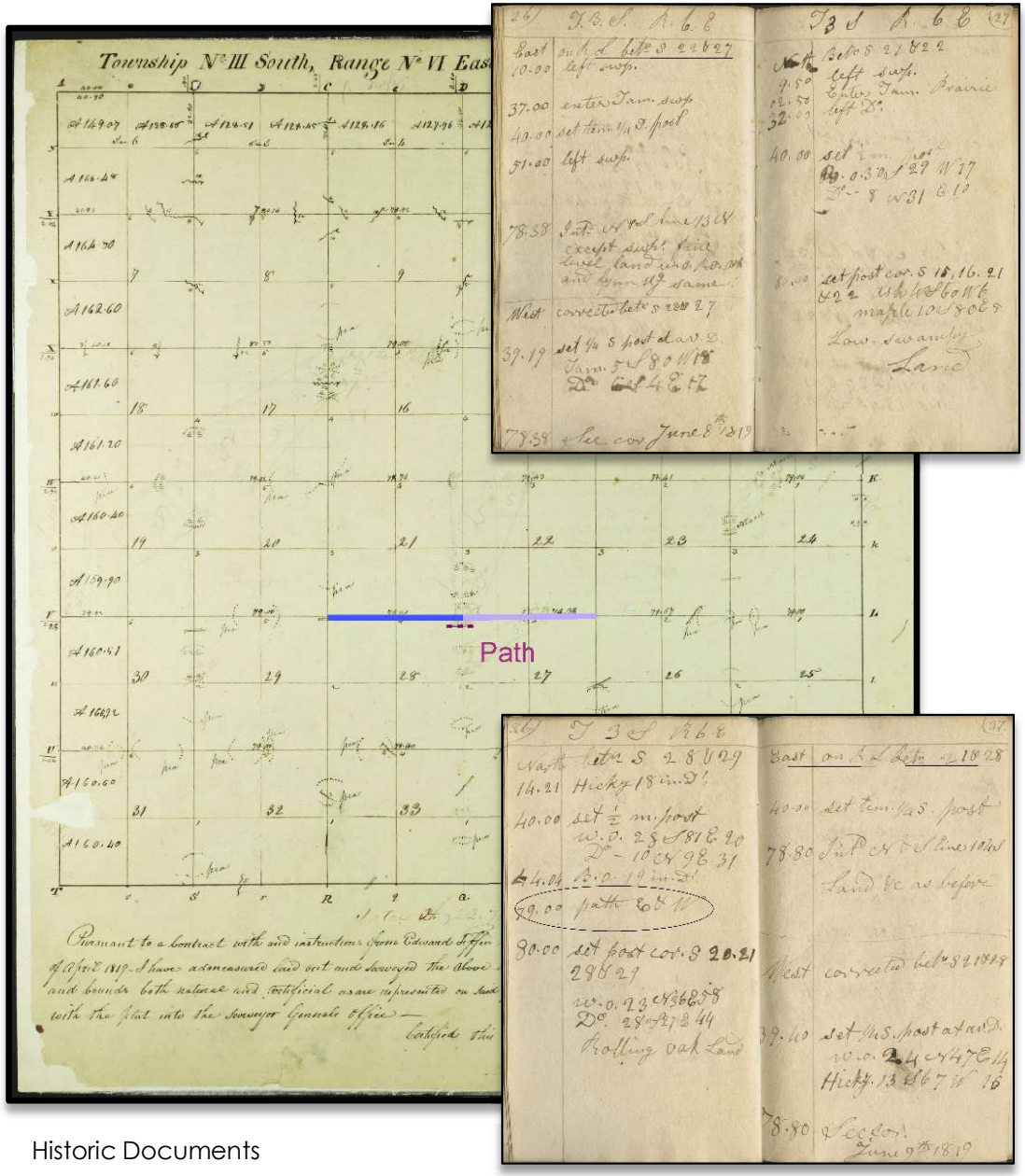
Chains	Feet	
10.00	660'	Left Swamp
37.00	2442'	Enter Tamarack swamp
40.00	2640'	Set terminal ¼ mile post
51.00	3366'	Left swamp
78.38	5173'	Intersection North & South line 13° North

Except swamp, fine level land:
white oak, red oak, ash, linden

West correction between Sections 22 & 27
39.19 2586' Set terminal ¼ section post at corner D
Tamarac 5" cal. South 80° West 18 links (11.87')
Tamarac 6" cal. South 4° East 17 links (11.21')
78.38 5173' Section corner

East on Boundary Line Between Sections 21 & 28 *(Page 37)*
40.00 2640' Set terminal ¼ section post
78.80 5173' Intersection North & South line 104° South
Land and cover as before - ***Rolling oak land***

West correction between Section 21 & 28
39.40 2600' Set ¼ section post at corner (Ditto)
White oak 24" cal. North 47° East 14 links (9.23')
Hickory 13" cal. South 67° West 16 links (10.55')
78.80 5200' Section



Historic Documents

GREEN CORRIDOR: TEXTILE ROAD

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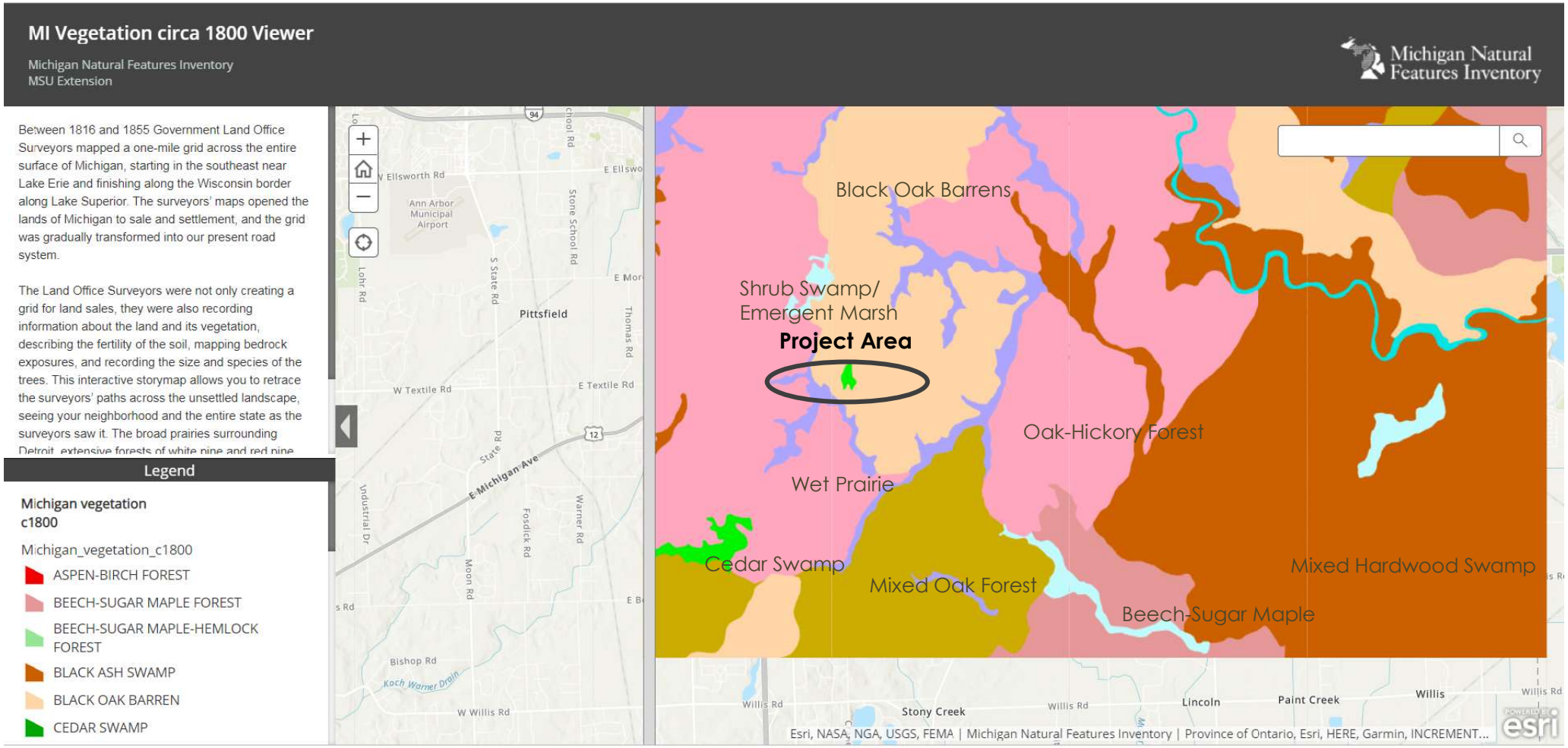
Pittsfield's Natural Features Map



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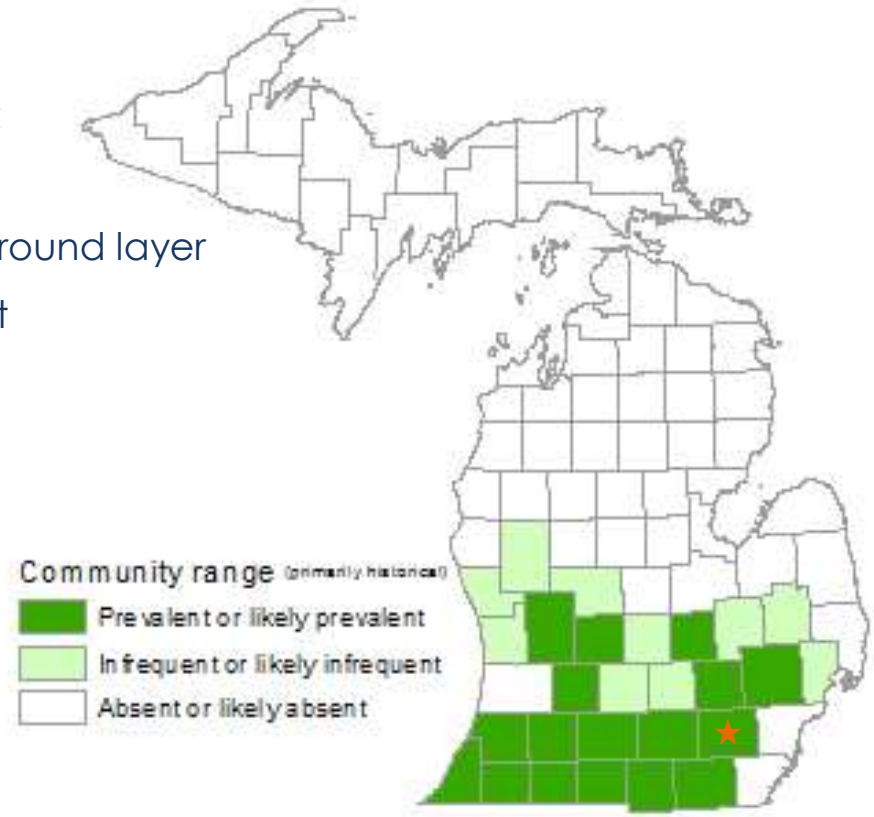
Landscape Enhancements

Oak openings were described by Michigan settlers as:

- Park-like savannas widely spaced mature oaks
- Wide range of shrub cover above the forb and graminoid ground layer
- The broad-crowned, scattered oaks of the same age cohort
- Canopy layer generally varied from 10 to 60% cover



Historic range of savannas

MSU Extension on Oak Openings:

- Fire-dependent savannas dominated by oaks
- With or without a shrub layer
- Predominantly graminoid (grasses) ground layer is composed of both prairie and forest communities
- Occur on dry-mesic loams in the southern Lower Peninsula, typically occurring on level to rolling topography
- Oak openings have been nearly extirpated from Michigan

GREEN CORRIDOR: TEXTILE ROAD

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Landscape Enhancements

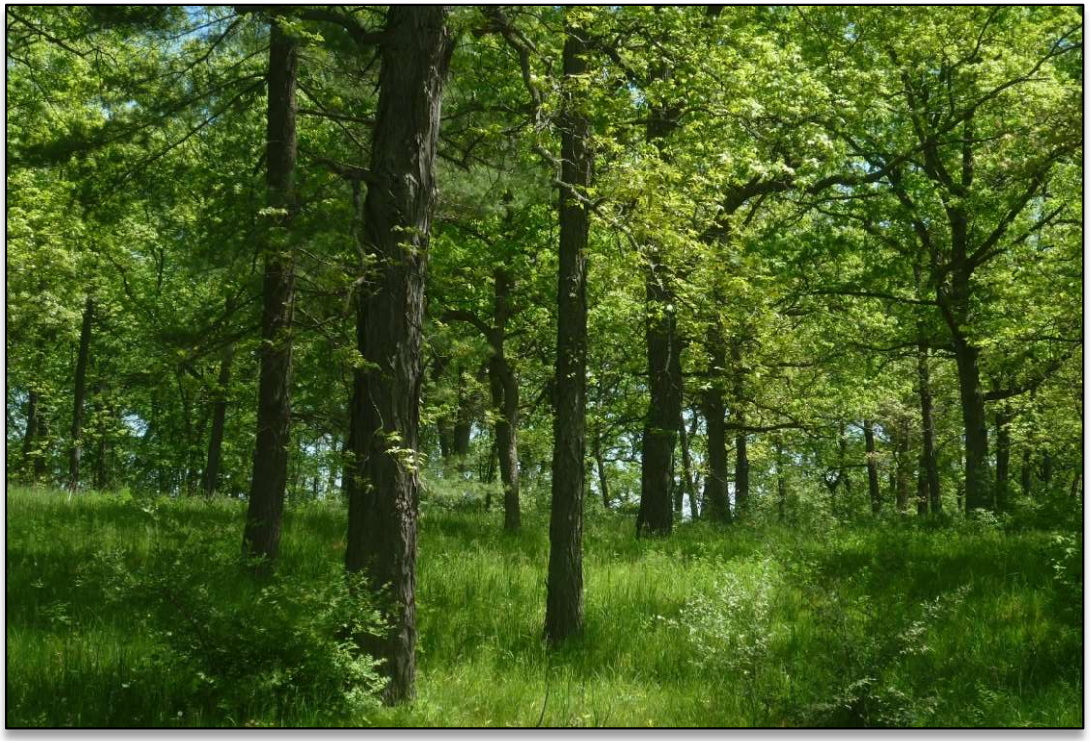
Typical Southern Michigan Savanna Plant Species:

TREES
- White Oak
- Burr Oak
- Chinquapin Oak
- Pignut Hickory
- Shagbark Hickory
- Red Oak
- Black Oak
- American Hazelnut

SHRUBS
- New Jersey Tea
- Lead Plant
- Stiff Dogwood
- Wild Plum
- Smooth Sumac

GRASSES
- Big Bluestem
- Little Bluestem
- Indian Grass

FORBS
- Thimbleweed *Anemone cylindrica*
- Purple Milkweed *Asclepias purpurascens*
- Butterfly Weed *A. tuberosa*
- Prairie Coreopsis Coreopsis *palmata*
- Showy Tick-Trefoil *Desmodium canadense*
- Flowering spurge *Euphorbia corollata*
- Bush Clovers *Lespedeza capitata*
- Wild-Bergamot *Monarda fistulosa*
- Virginia Mtn. Mint *Pycnanthemum virginianum*
- Black-eyed Susan *Rudbeckia hirta*
- Culver's Root *Veronicastrum virginicum*
- Golden Alexanders *Zizia aurea*



Savanna - late spring

Savanna - late summer

Savanna - controlled burn

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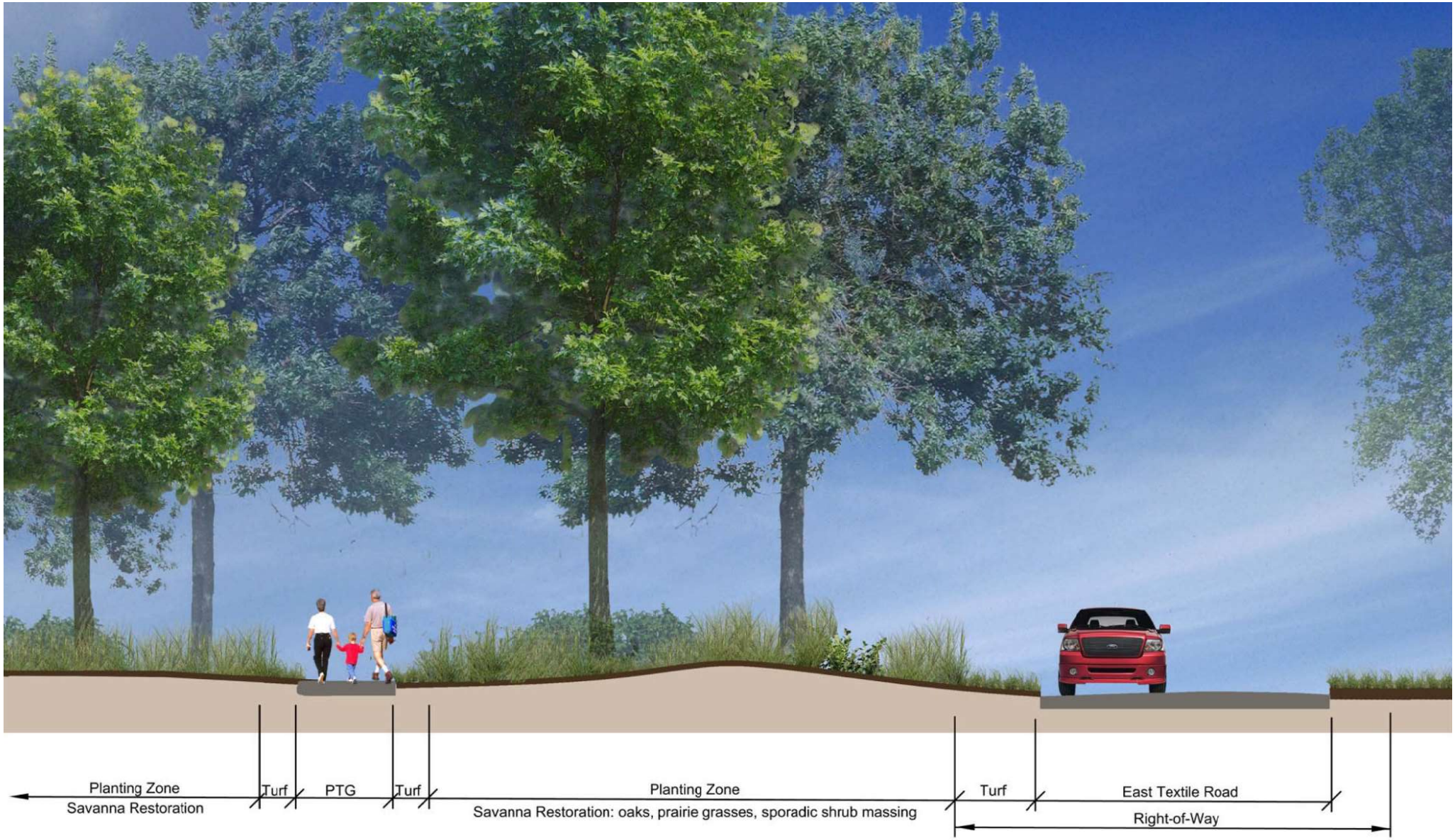
Landscape Enhancements



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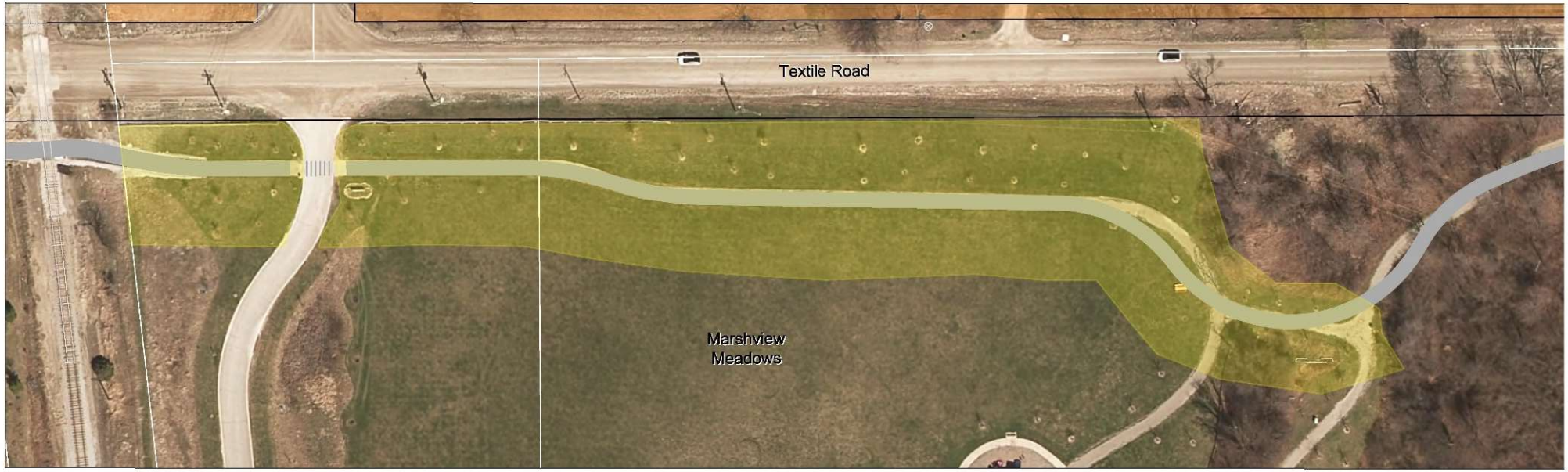
Landscape Enhancements – OPPORTUNITY AREA 1 (Marshview Meadows frontage)



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Landscape Enhancements – OPPORTUNITY AREA 1 (Marshview Meadows frontage)

View looking east

View looking east

Existing bioretention basin adjacent entry drive

GREEN CORRIDOR: TEXTILE ROAD

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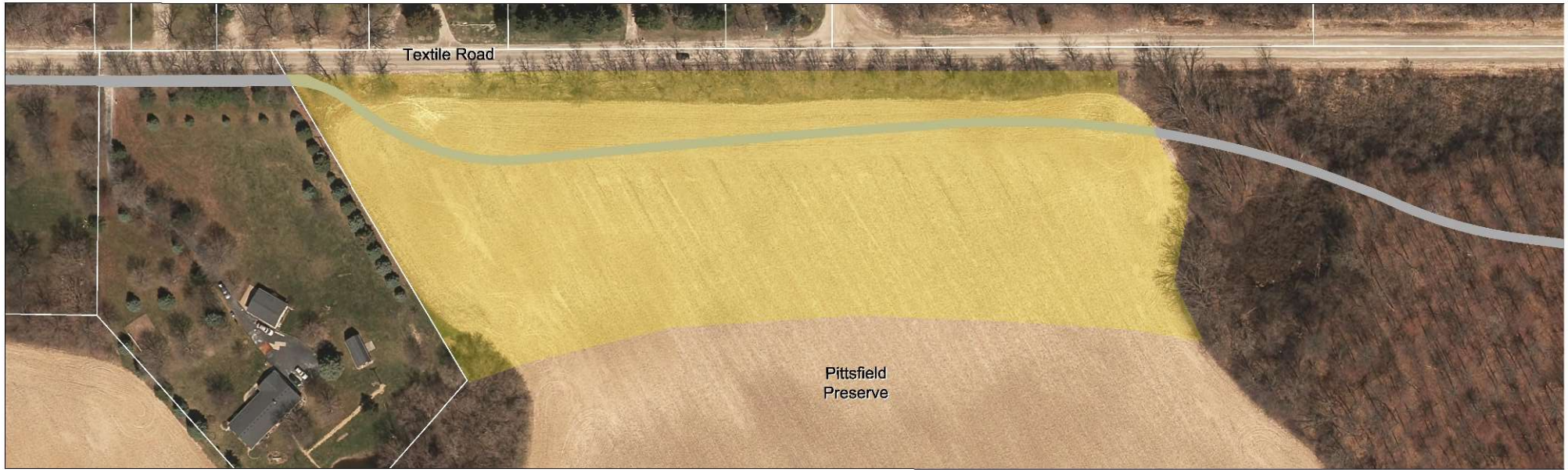
Landscape Enhancements – OPPORTUNITY AREA 2 (Pittsfield Preserve)



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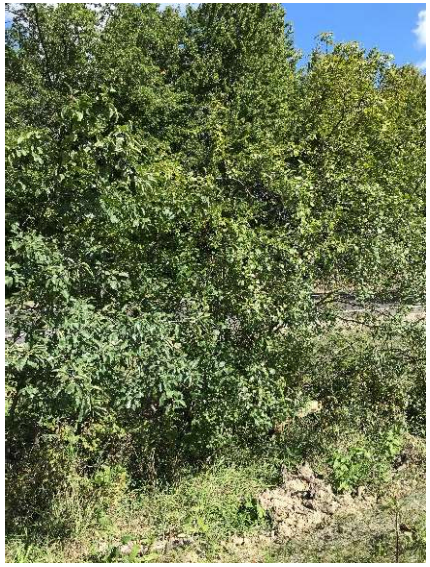
Landscape Enhancements – OPPORTUNITY AREA 2 (Pittsfield Preserve)

View looking west

View looking east



Remove invasives within project area

Fill in 'gaps' adjacent Textile Road

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2. Textile Road Tree Planting

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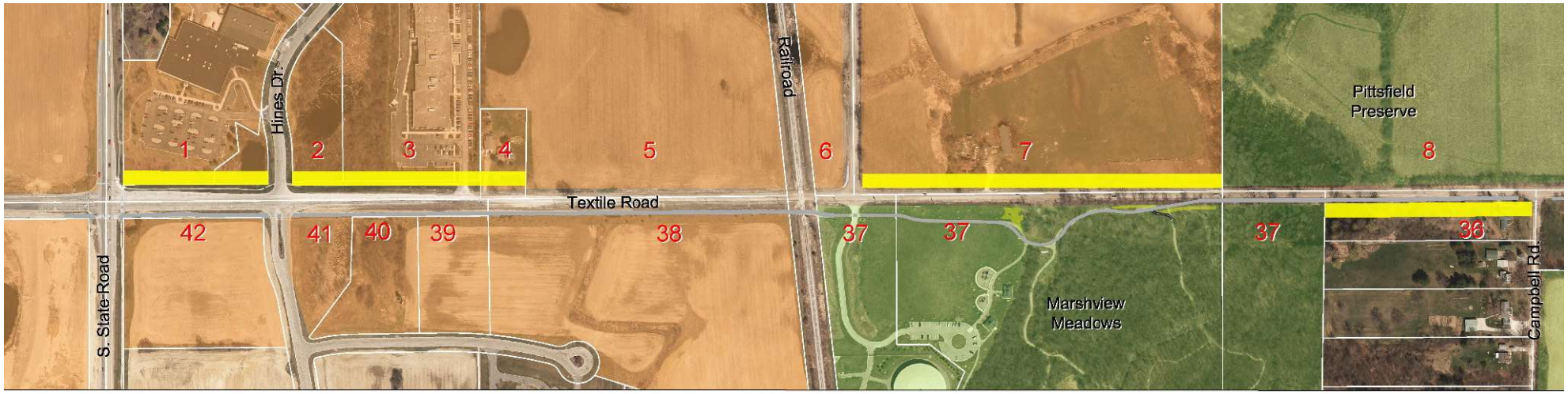
Textile Road Tree Planting – OPPORTUNITY AREAS (PRIVATE PROPERTY)



Tree Planting Opportunities
with private property owner's cooperation

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Textile Road Tree Planting – OPPORTUNITY AREAS (PRIVATE PROPERTY)

Map #	Property Owner	Property Address	Description	Frontage
1	Horiba Instruments Inc.	5900 Hines Dr.	Commercial	520
2	Horiba Instruments Inc.	5900 Hines Dr.	Commercial	180
3	Trinity Heath - Michigan	300 W. Textile Rd.	Commercial	490
4	Carl Ticknor	260 W. Textile Rd.	Residential	160
5	Alfred & Janice Harwood	Textile Rd.	Agriculture	927
	Railroad		Right-of-way	99
6	Alfred & Janice Harwood	Textile Rd.	Agriculture	99
7	Christina Lirones & Stephen Berger		Residential	1285
8	Pittsfield Preserve	Textile Rd.	Public	1323
9	David Good	2355 E. Textile Rd	Residential	40
10	Christopher & Kylee Claeys	2345 E. Textile Rd	Residential	93
9	David Good	2355 E. Textile Rd	Residential	167
11	Therlon & Ann Harris	2397 Textile Rd.	Residential	152
12	Steven Upplegger	2443 Textile Rd.	Residential	237
13	Stephen Colglazier	2485 Textile Rd.	Residential	117
14	Timothy & Terrilyn McManus	5845 Thomas Rd.	Wooded-Vacant	525
15	Zahra Al Attar	Textile Rd.	Wooded-Vacant	882
16	Zahra Al Attar	Textile Rd.	Wooded-Vacant	448
17	Pittsfield Glenn Condos	Textile Rd.	Condo Open Space	360
18	Pittsfield Glenn Condos	Textile Rd.	Condo Open Space	300
19	Jamey Cates, Steven Butler, Michael Smith	Textile Rd.	Wooded-Vacant	340
20	Mark & Carol Thompson	2969 Textile Rd.	Residential	157
19	Jamey Cates, Steven Butler, Michael Smith	Textile Rd.	Wooded-Vacant	168

Map #	Property Owner	Property Address	Description	Frontage
21	Ayoub Tavsir Hasan	Textile Rd.	Residential - vacant	283
22	Michael Lee Bachman	3063 Textile Rd.	Residential	100
23	Joan Bennett	3085 Textile Rd.	Residential	100
24	De Alfaro Digna Navarrette & Jose Alfaro Reyes	3117 Textile Rd.	Residential	100
25	Keith Volk	3151 Textile Rd.	Residential	190
26	Alkhalili	6040 Michigan Ave.	Residential	105
27	Mildred Shankle	6094 Michigan Ave.	Residential	858
28	John Shankle	2992 Textile Rd.	Residential	147
29	Sisu Investments	2972 Textile Rd.	Residential	92
30	Eastern Michigan University	Textile Rd.	Public	280
31	Washtenaw County Parks	Textile Rd.	Public	369
32	Pittsfield Preserve	Textile Rd.	Public	435
33	Pittsfield Preserve	Textile Rd.	Public	2475
34	Kevin & Janet Nevaux	2350 Textile Rd.	Residential	187
35	Cemetery	Textile Rd.	Public	211
36	Chester Borucki	6014 Campbell Rd.	Residential	754
37	Pittsfield Marshview Meadows	Textile Rd.	Public	1813
	Railroad		Right-of-way	
38	Wacker Chemical Corp.	Textile Rd.	Agriculture	1064
39	Avis Farms South	McDowell Place	Agriculture	250
40	Avis Farms South	McDowell Place	Agriculture	234
41	Avis Farms South	McDowell Place	Agriculture	260
42	Avis Farms South	McDowell Place	Agriculture	594

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3. Green Infrastructure – Stormwater

GREEN CORRIDOR: TEXTILE ROAD

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SEMCOG Green Infrastructure Implementation Program

Through EPA's Great Lakes Restoration Initiative

Provides funding to implement green infrastructure best management practices to reduce stormwater and nutrient runoff

Grant application submitted in March 2019

$46,500 awarded to Pittsfield Township for rain gardens and bioswales adjacent to the Platt – Textile Greenway.

SEMCOG | SOUTHEAST MICHIGAN COUNCIL OF GOVERNMENTS

SEMCOG Green Infrastructure Implementation Program
Application

Applicant Information

Agency Name: Pittsfield Charter Township

Agency Type: Township

Contact Person:
Name: Cassandra Winner
Phone: (734)214-1801
Email: Cassandra.Winner@stantec.com

Chief Elected Official:
Name: Mandy Grewal
Phone: (734)822-3135
Email: supervisor@pittsfield-mi.gov

Project Information

Project Name: Platt-Textile Greenway (PTG) Green Infrastructure Improvements

Project Type: Rain Gardens/Bioswale

In a brief narrative, describe the proposed project and how the project will have an environmental benefit, including stormwater runoff and nutrient loading reduction (attach additional sheets, if necessary):

The proposed project is to create a rain gardens/bioswale system and potentially an alternative/additional rain garden upstream of Washtenaw County Water Resources Commission (WCWRC) HUB-Site (Item #1) within the Huron-Raisin Watershed (see attached location map and conceptual layout plan). The environmental benefits of this project will be the capture of stormwater runoff, an educational opportunity along a more compact trail system, and the ability for the project to be applied at other locations for communities that may wish to replicate it. An additional environmental benefits, once the project is added to Platt Textile Greenway's (PTG) Summer 2019 construction, the system will be implemented without having to remove extra trees. Along with this, the proposed project will improve the mobility, walkability, safety and aesthetic value of PTG by reducing stormwater runoff along the trail.

The proposed project is located along PTG which connects over eleven miles of Pittsfield's greenways to provide seamless non-motorized connectivity for hundreds of thousands of area residents to nearly 600 acres of park, green, historic, and recreational spaces. PTG, along with the other greenways in the Township, all utilize environmentally friendly features such as recycled materials and bioswales for collection of stormwater runoff and water quality measures, as well as ensuring the sustainability of the existing habitat. These bioswales are all designed per the WCWRC standards to mitigate the first flush over the greenway (approximately 2,365 cft of runoff and 2,364 cft of storage). The trail also connects into Washtenaw County's regional Border-to-Border (B2B) Trail network and, by extension, the Iron Belle Trail being implemented by the State of Michigan. Thus, the proposed rain gardens/bioswale system adds to a significant green infrastructure network that uses trails as a linage. This will be illustrated on the proposed educational signage.

Total Project Cost ($50,000 Max) (attach budget detailing items of work and identify other funding sources to support this project): $50,000

Project Schedule (implementation dates and activity milestones):

April 2019 - April 2020: Award/Design/Permit/Bidding
May 2020: Mobilization/BSBC
June 2020: Rough grading
July 2020: Install rain garden and bioswale infrastructure/Fine grading
August 2020: Restoration including plantings and seeding/Cleanup

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Phil Weipert, Chairperson, Commissioner, Oakland County
Donald Hubler, First Vice Chair, Secretary, Macomb ISD
Chris Barnett, Vice Chairperson, Supervisor, Orion Township
Mandy Grewal, Vice Chairperson, Supervisor, Pittsfield Township
Brenda Jones, Vice Chairperson, President, Detroit City Council
Eric Sabree, Vice Chairperson, Treasurer, Wayne County
Robert Clark, Immediate Past Chair, Mayor, City of Monroe
Kathleen Lomako, Executive Director

Spring on behalf of Mandy Grewal

Date: 3/28/19

Application

SEMCOG | SOUTHEAST MICHIGAN COUNCIL OF GOVERNMENTS

Supervisor Grewal,

Congratulations! SEMCOG's Regional Review Committee has approved your Green Infrastructure Implementation Program project for FY2020:

Pittsfield Charter Township - Platt-Textile Greenway Rain Gardens and Bioswales

Grant Award: $46,500

SEMCOG staff will be contacting you in the coming weeks with additional information, including grant agreement, reimbursement process, reporting, etc.

If you have any questions regarding the award, please contact Kelly Karll at (313) 324-3375 or karll@semcog.org.

Thank you and congratulations.

Kathleen Lomako

Kathleen Lomako
Executive Director

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Brenda Jones, Vice Chairperson, President, Detroit City Council
Eric Sabree, Vice Chairperson, Treasurer, Wayne County
Robert Clark, Immediate Past Chair, Mayor, City of Monroe
Kathleen Lomako, Executive Director

Award letter

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Green Infrastructure – OPPORTUNITY AREAS

Rain Garden

Bioswales

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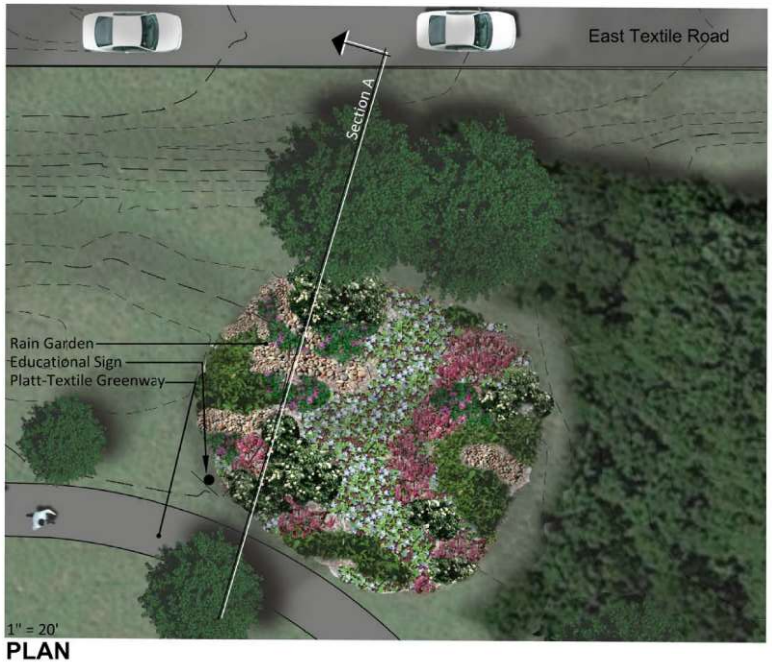
Green Infrastructure – CONCEPT PLAN



PLAN

BOTANICAL NAME	COMMON NAME
ANDROPOGON SCOPARIUS	LITTLE BLUE STEM
CAREX COMOSA	BOTTLEBRUSH SEDGE
CAREX STRICTA	TUSSUCK SEDGE
CAREX VULPINOIDEA	BROWN FOX SEDGE
JUNCUS EFFUSUS	SOFT STEMMED RUSH
ASCLEPIAS INCARNATA ASTER	SWAMP MILKWEED
NOVAE–ANGLIAE 'PURPLE DOME'	NEW ENGLAND ASTER
COREOPSIS VERTICILLATA	YELLOW TICKSEED
EUPATORIUM MACULATUM	JOE PYE WEED
IRIS VIRGINICA	BLUE FLAG IRIS
LIATRIS SPICATA	BLAZING STAR
PHYSOSTEGIA VIRGINIANA	OBEDIENT PLANT
VERBENA HASTATA	BLUE VERVAIN
SPIRAEA ALBA	MEADOWSWEET
HELENIUM AUTUMNALE	SNEEZEWEED
MONARDO FISTULOSA	BEE BALM
SAMBUCUS CANADENSIS	ELDERBERRY
VIBURNUM DENTATUM	ARROWWOOD VIBURNUM
RUDBECKIA FULGIDA	BLACK–EYED SUSAN
HELIANTHUS ANGUSTIFOLIUS	SWAMP SUNFLOWER

Plant List: install a diverse mix of native plants. Best if group in clumps of five or more. Select plants of varying bloom periods to extend seasonal interest.

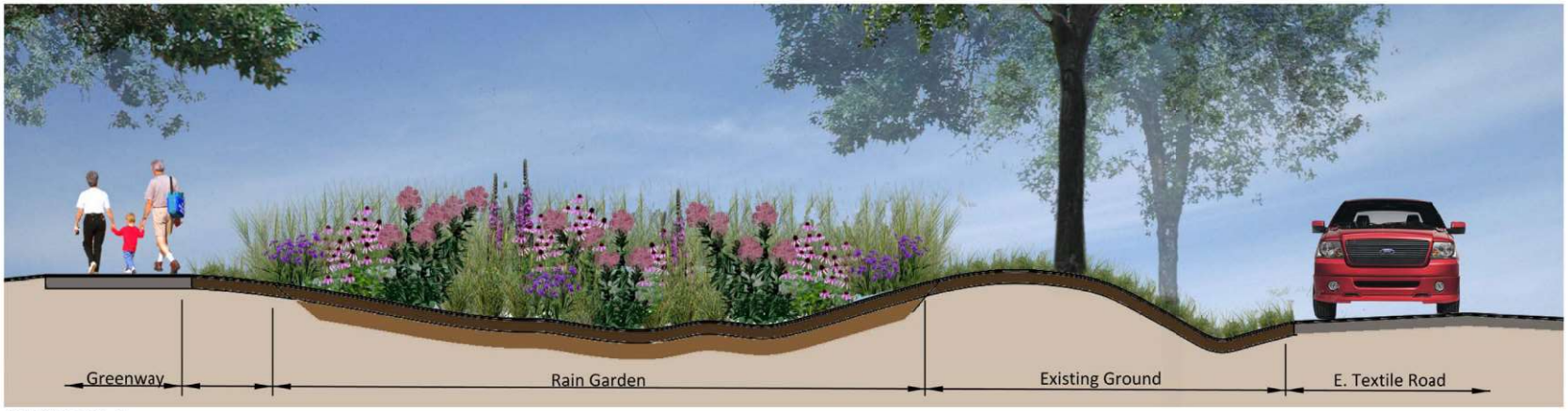
Tall plants can have a bigger visual impact when viewed from a distance and help keep weeds to a minimum.

Joe Pye Weed

Bee Balm

Blazing Star

Accent boulders provide year-round interest



SECTION A

October 3, 2019

0' 20'

Platt - Textile Greenway
Green Infrastructure Improvements
PRELIMINARY PLAN

Exhibit Prepared for: Pittsfield Charter Township

Exhibit Prepared by Stantec

SHEET 1

PITTSFIELD CHARTER TOWNSHIP

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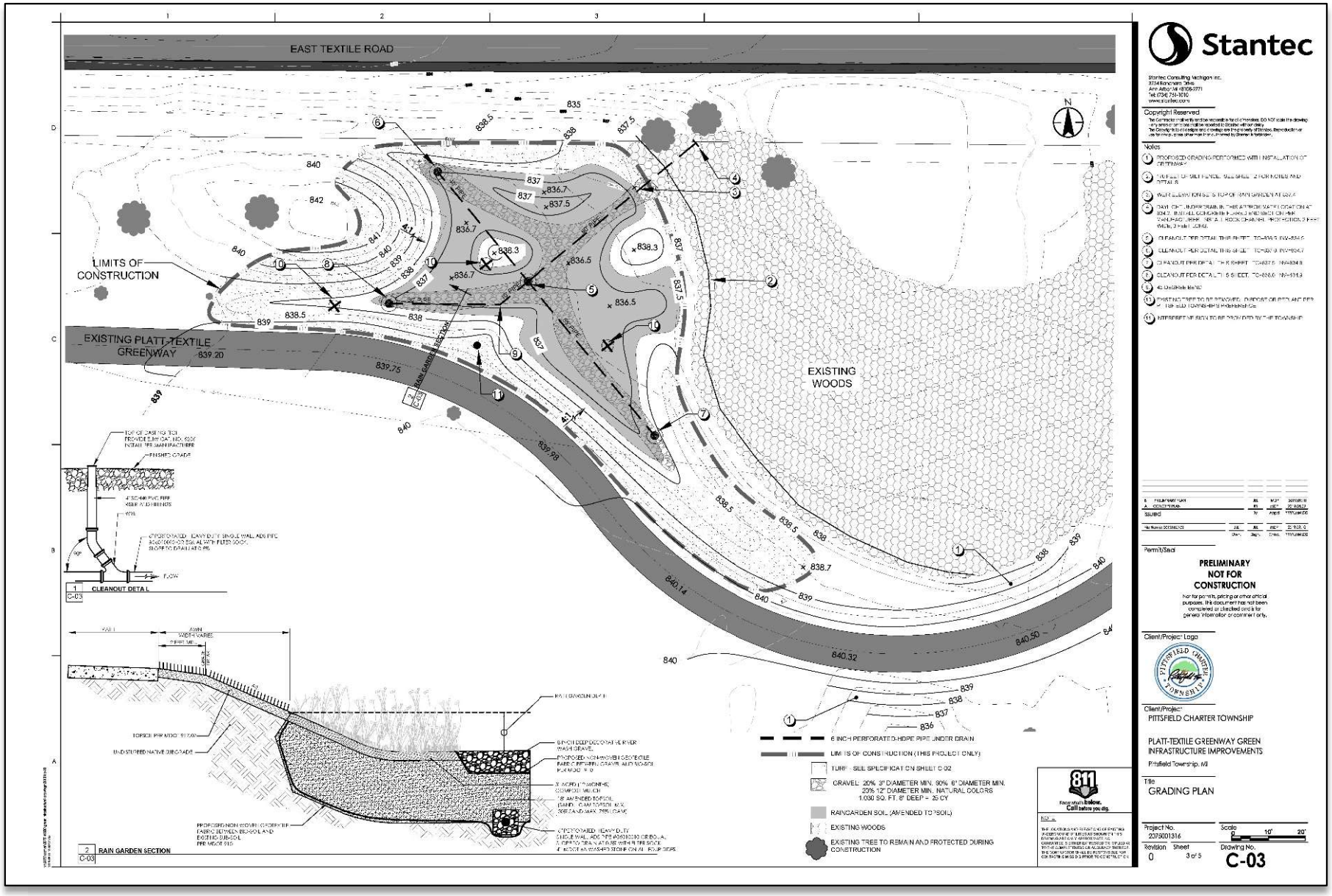
Green Infrastructure – GRADING PLAN



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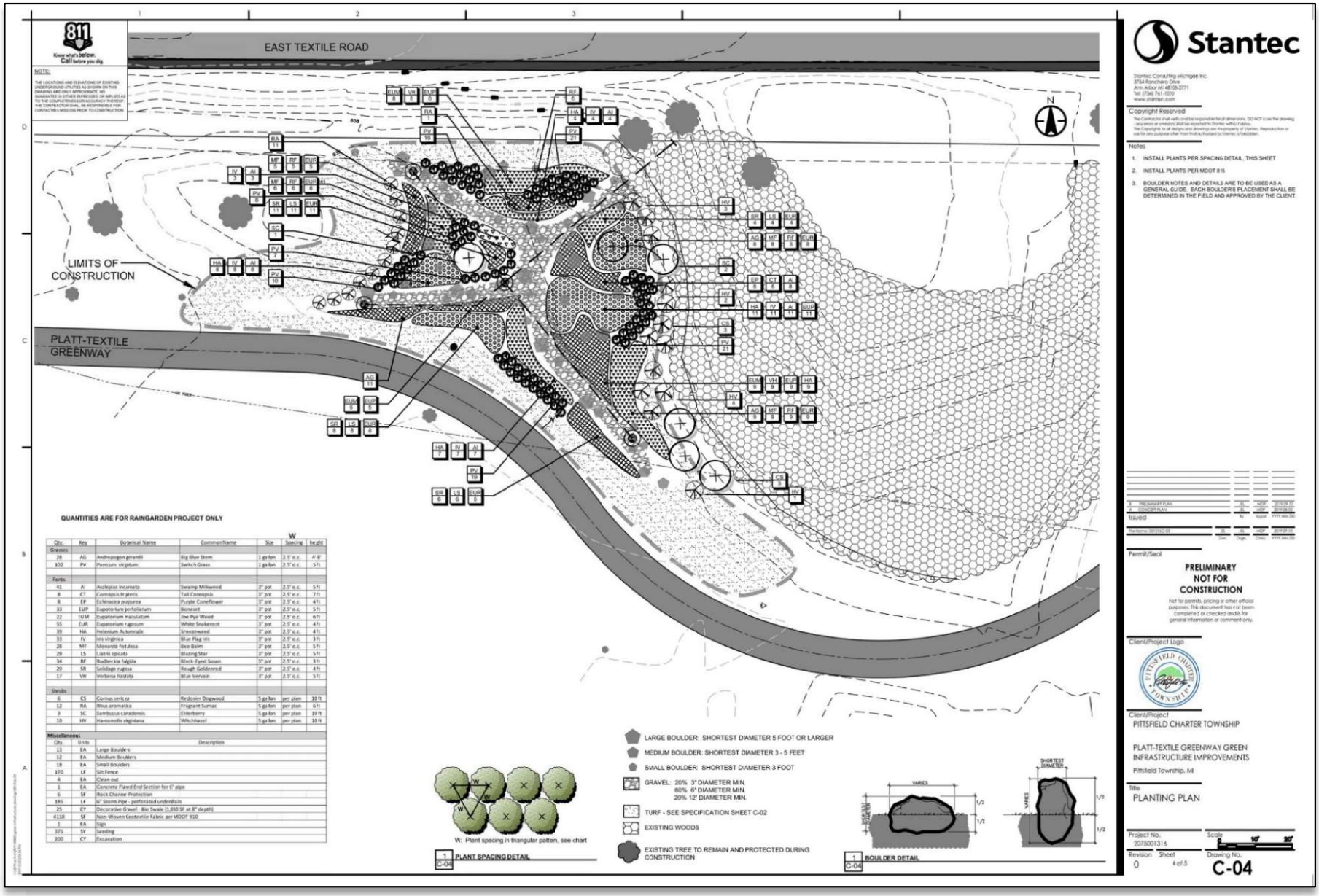
Green Infrastructure – LANDSCAPE PLAN



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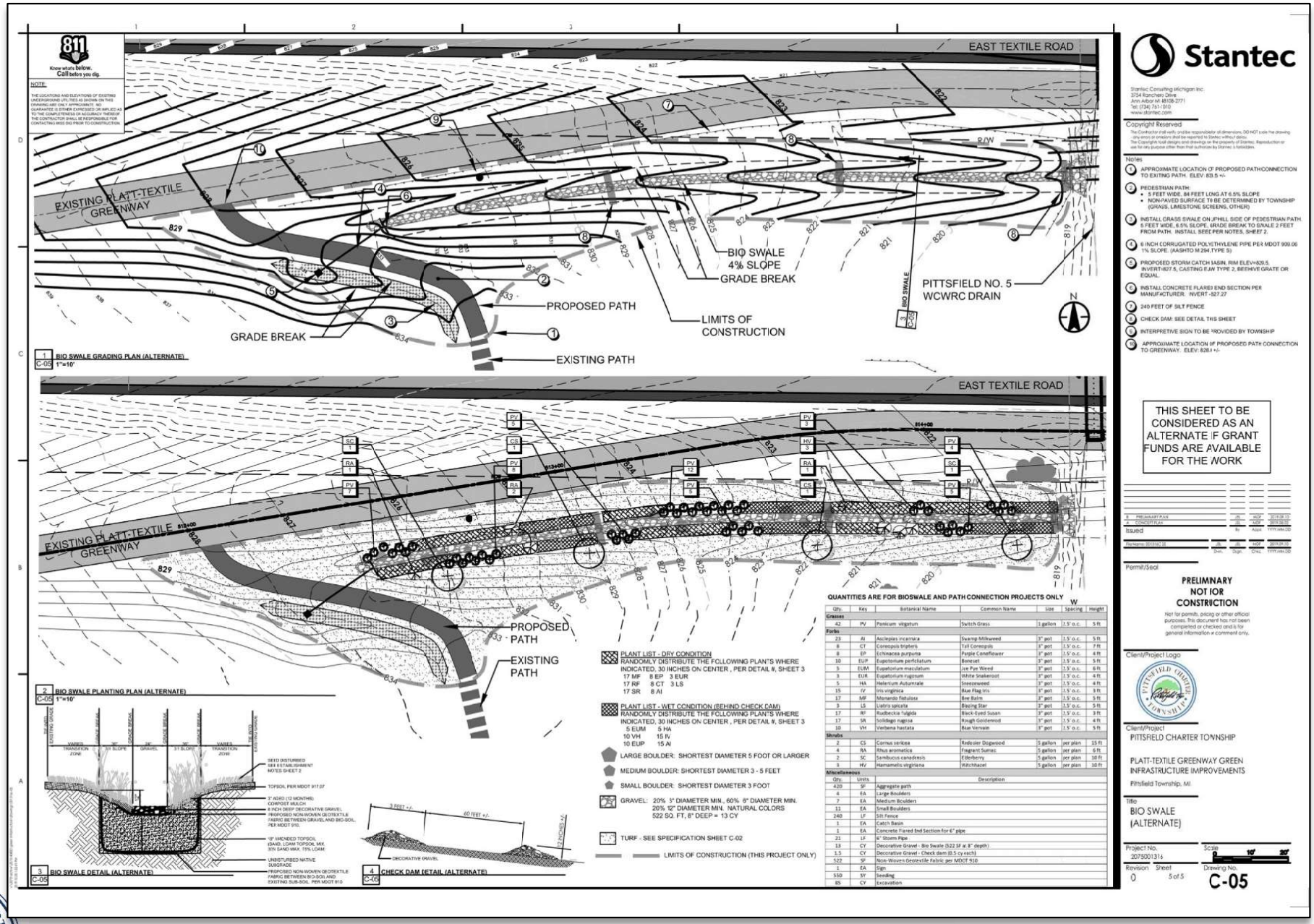
Green Infrastructure – BIOSWALE GRADING AND LANDSCAPE PLAN



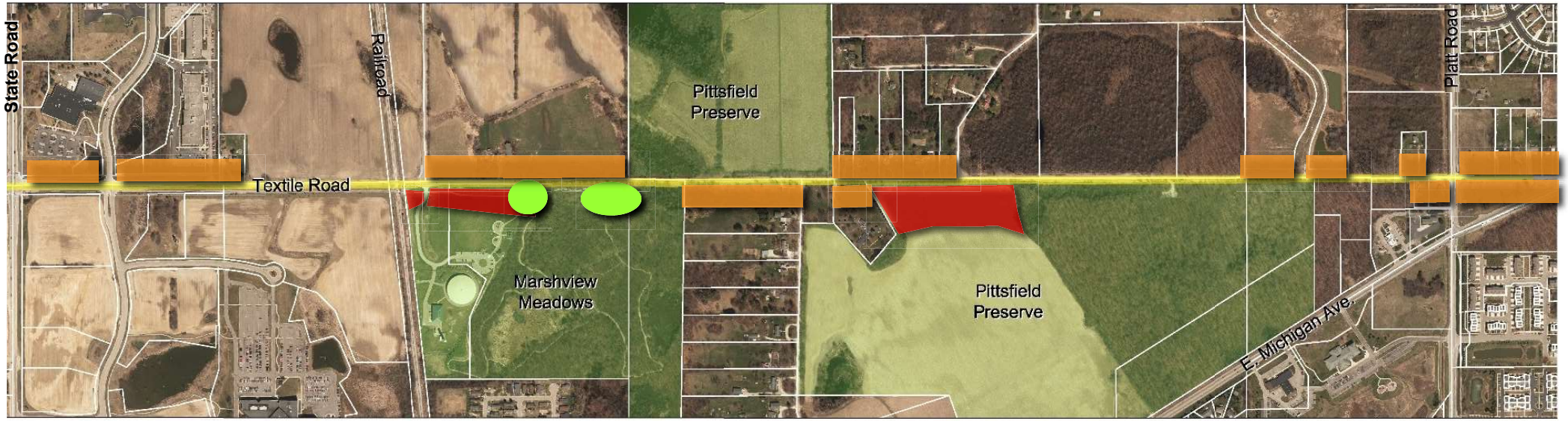
Qty.	Key	Botanical Name	Common Name	Size	Spacing	Height
Grasses						
42	PV	Panicum virgatum	Switch Grass	1 gallon	1.5' o.c.	5 ft
Forbs						
23	AI	Asclepias incarnata	Swamp Milkweed	1" pot	1.5' o.c.	5 ft
8	CT	Coreopsis tripteris	Tall Coreopsis	1" pot	1.5' o.c.	7 ft
8	EP	Echinacea purpurea	Purple Coneflower	1" pot	1.5' o.c.	4 ft
10	EUP	Eupatorium perfoliatum	Boneset	1" pot	1.5' o.c.	5 ft
5	EUM	Eupatorium maculatum	Joe Pye Weed	1" pot	1.5' o.c.	6 ft
3	EUR	Eupatorium rugosum	White Snakeroot	1" pot	1.5' o.c.	4 ft
5	HA	Helenium Autumnale	Sneezeweed	1" pot	1.5' o.c.	4 ft
15	IV	Iris virginica	Blue Flag Iris	1" pot	1.5' o.c.	3 ft
17	MF	Monarda fistulosa	Bee Balm	1" pot	1.5' o.c.	5 ft
3	LS	Liatris spicata	Blazing Star	1" pot	1.5' o.c.	5 ft
17	RF	Rudbeckia fulgida	Black-Eyed Susan	1" pot	1.5' o.c.	3 ft
17	SR	Solidago rugosa	Rough Goldenrod	1" pot	1.5' o.c.	4 ft
10	VH	Verbena hastata	Blue Vervain	1" pot	1.5' o.c.	5 ft
Shrubs						
2	CS	Cornus sericea	Redosier Dogwood	5 gallon	per plan	15 ft
4	RA	Rhus aromatica	Fragrant Sumac	5 gallon	per plan	6 ft
2	SC	Sambucus canadensis	Elderberry	5 gallon	per plan	10 ft
3	HV	Hamamelis virginiana	Witchhazel	5 gallon	per plan	10 ft

Miscellaneous		
Qty.	Units	Description
420	SF	Aggregate path
4	EA	Large Boulders
7	EA	Medium Boulders
11	EA	Small Boulders
240	LF	Silt Fence
1	EA	Catch Basin
1	EA	Concrete Flared End Section for 6" pipe
21	LF	6" Storm Pipe
13	CY	Decorative Gravel - Bio Swale (522 SF at 8" depth)
1.5	CY	Decorative Gravel - Check dam (0.5 cy each)
522	SF	Non-Woven Geotextile Fabric per MDOT 910
1	EA	Sign
550	SY	Seeding
85	CY	Excavation

GREEN CORRIDOR: TEXTILE ROAD

DRAFT

DRAFT PLAN



Landscape Enhancements

Textile Road Tree Planting

Green Infrastructure

PITTSFIELD CHARTER TOWNSHIP

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Questions