

Native Plants and Community Based Design in Saint Louis



LANDSCAPE ARCHITECT



WHAT MY MOM THINKS I DO



WHAT HORTICULTURISTS
THINK I DO



WHAT CLIENTS THINK I DO



WHAT CONTRACTORS THINK I DO



WHAT I THINK I DO



WHAT I ACTUALLY DO

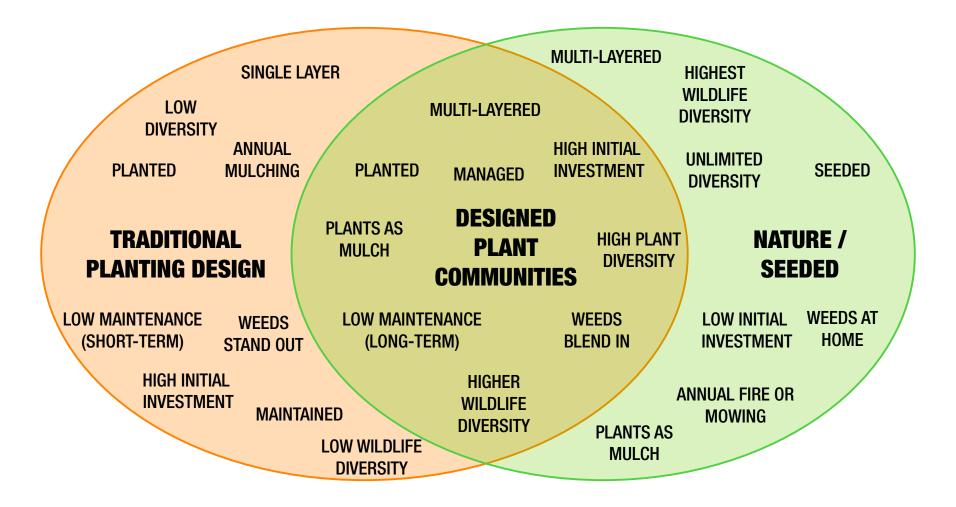


What I Actually Do

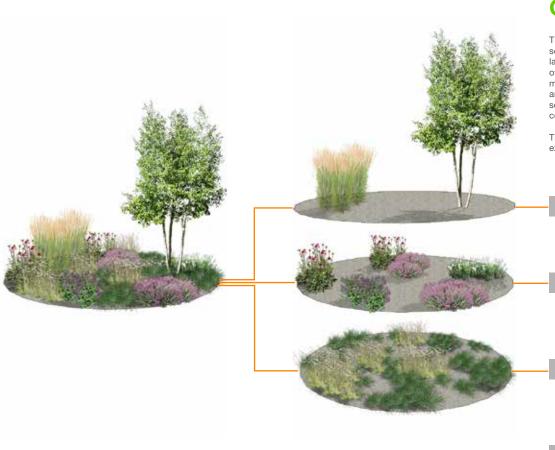


What am I talking about?

- Brief overview of designed plant communities
- Our process to embrace the concept of designed plant communities
- Project review: The Center for Nursing and Health Sciences
- Project review: MSD neighborhood rain garden
- Native plants!







DESIGNED PLANT COMMUNITIES

The strategy of designed plant communities is to increase diversity and seasonality while decreasing maintenance. It achieves this by mimicking the layering and distribution of plant material observed in nature. A base layer of low-growing groundcover plants acts as weed suppression and "green mulch" while setting the field for dynamic species. These dynamic accents are stand-out stars with overlapping bloom periods to ensure consistent seasonal interest. Finally, the structural plant material utilizes verticality to control viewsheds and call attention to the dynamic layer of plant material.

The matrix approach to planting design will create a layered and tactile experience for garden visitors to enjoy in all seasons.

STRUCTURAL

Includes trees, shrubs, and tall perennials. These plants form framework of the planting design as dominant vertical elements.

DYNAMIC

Perennials or low-growing shrubs that stand out individually during their bloom period and otherwise act as companion plants. Typically with attractive foliage color or texture.

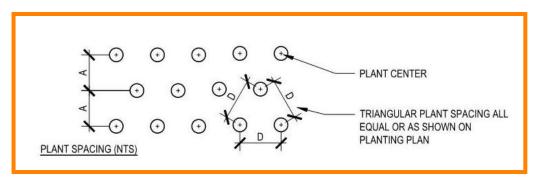
FIELD

Mixture of low grasses and sedges that act as a groundcover beneath taller species. They reduce maintenance by becomming a "green mulch"

EPHEMERAL

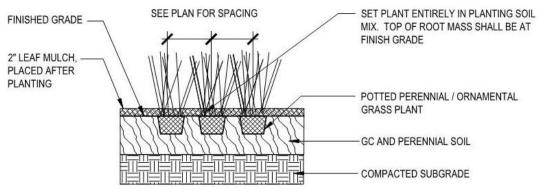
Short-lived spring ephemerals which provide interest at the onset of spring and then enter dormancy as warm-season species emerge.





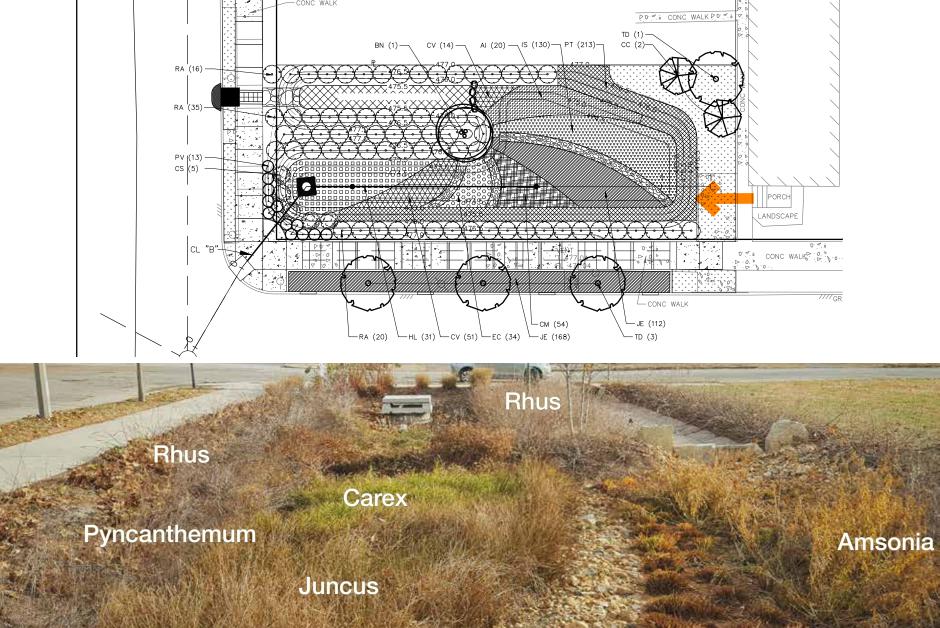
Traditional Planting Design



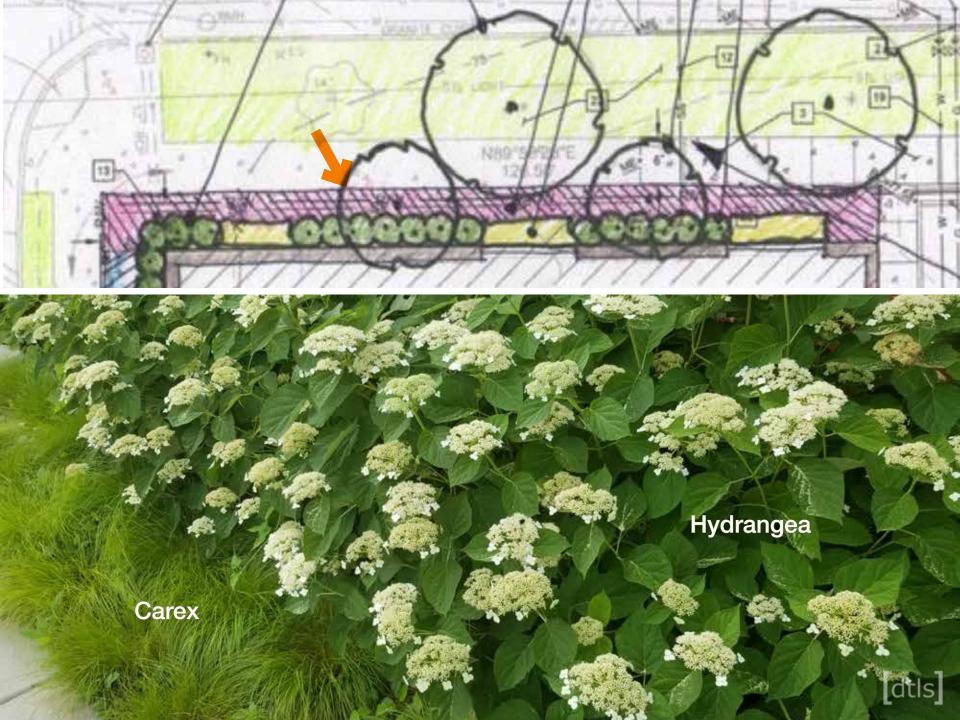


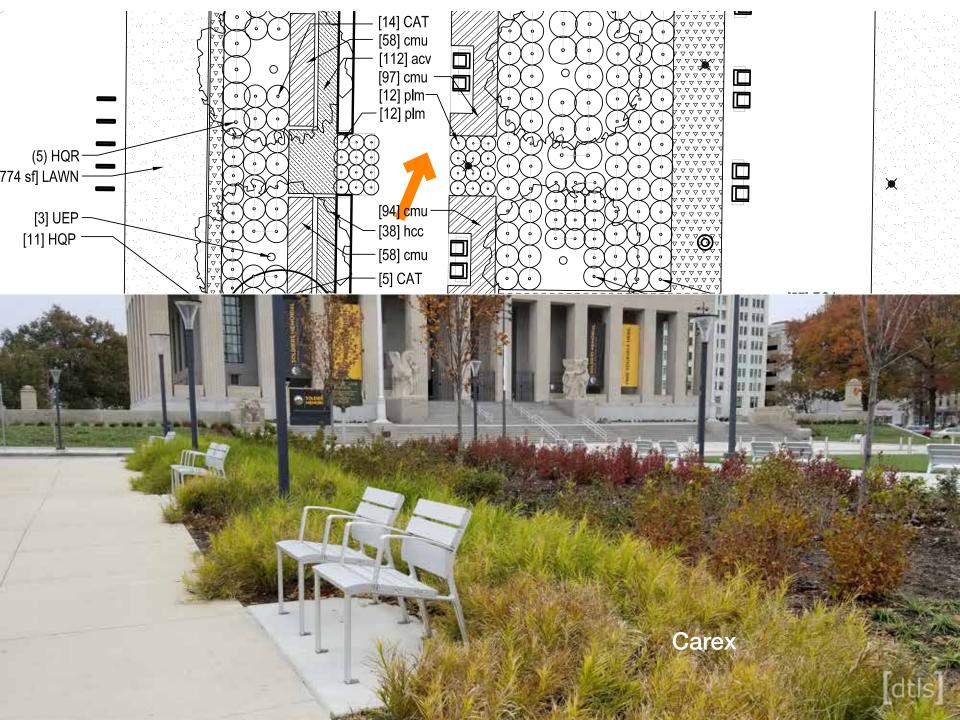
PERENNIAL PLANTING
1/2" = 1'-0"

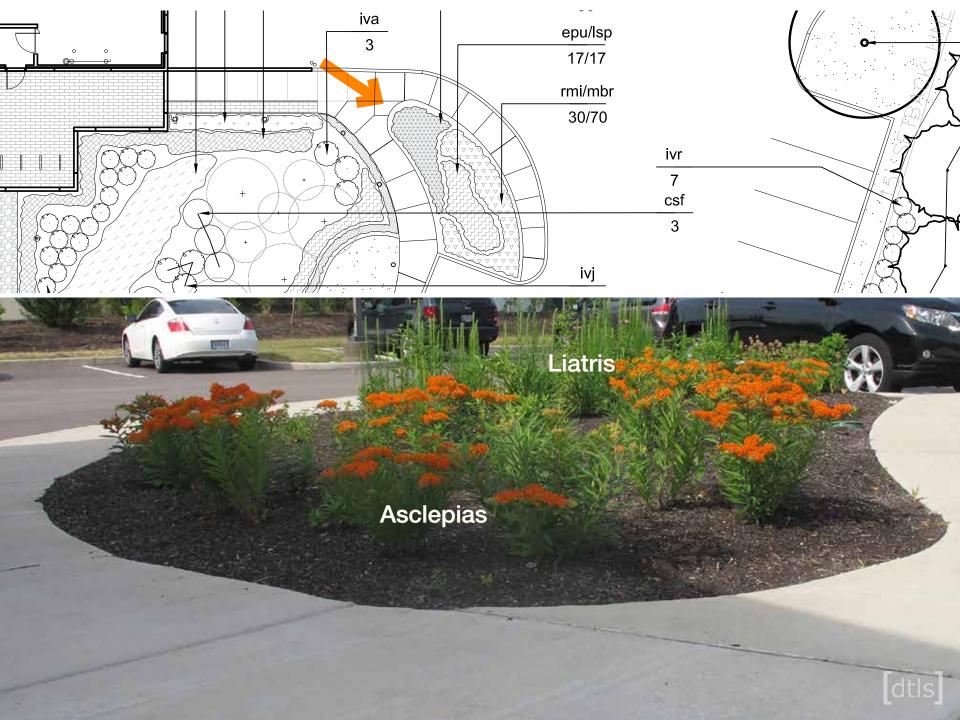




Iris









Symphyotrichum novae-angliae

Symphyotrichum novae-angliae 'Purple Dome'





Seeded Prairie Restoration

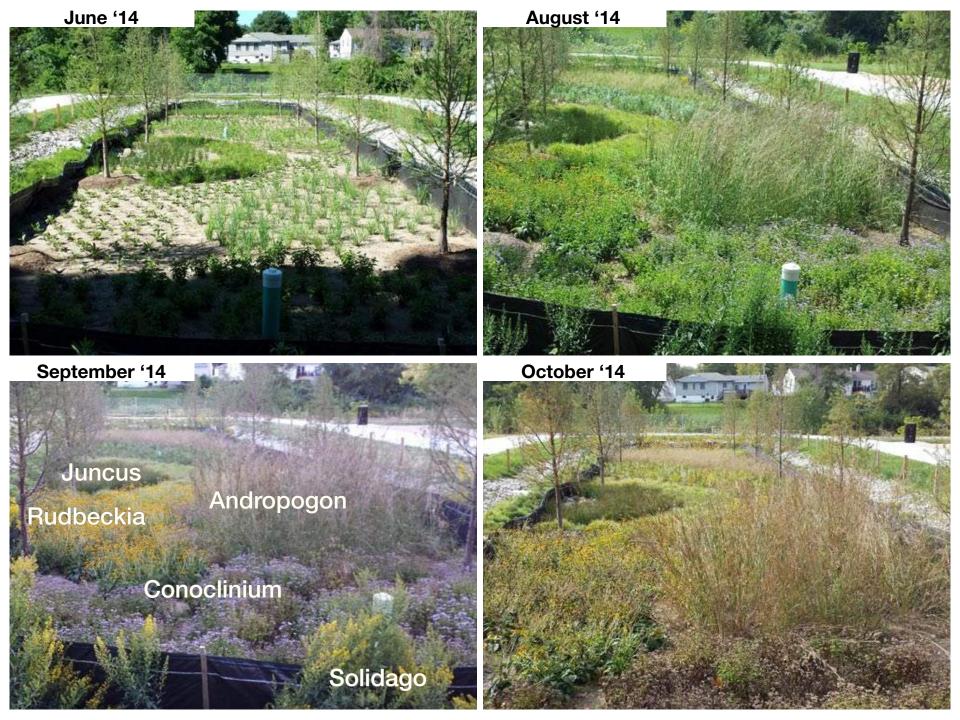




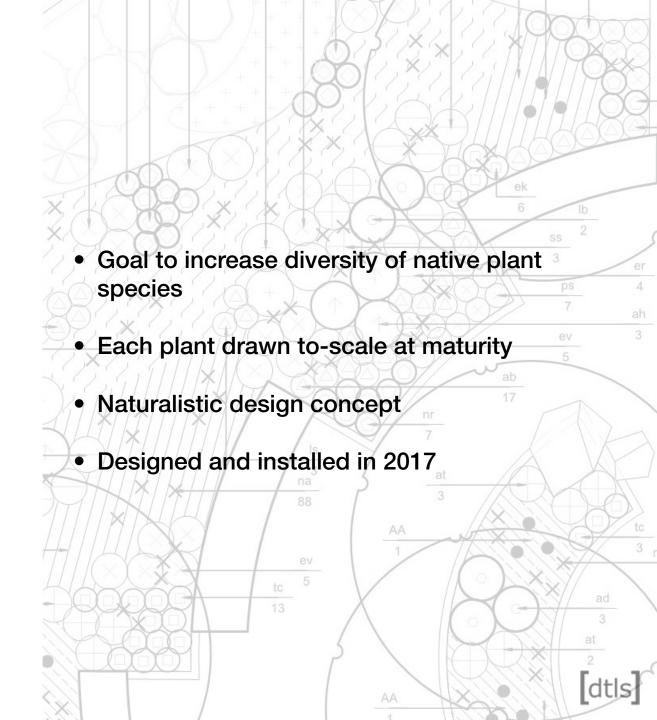
Case Study:

River Des Peres Greenway

- Installed 2014
- Design by Arcturis
- Traditional planting design in bioretention areas

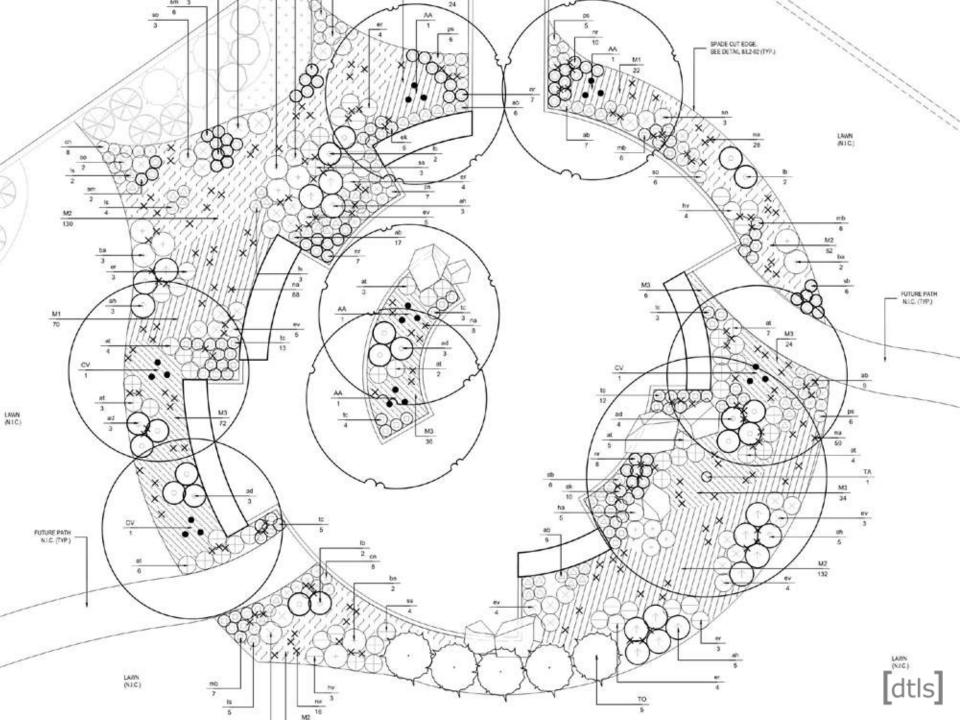


Case Study: Healing Garden



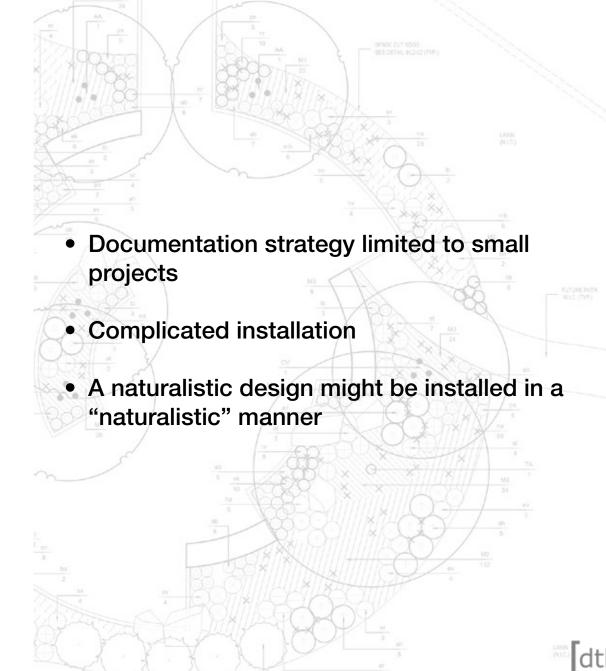








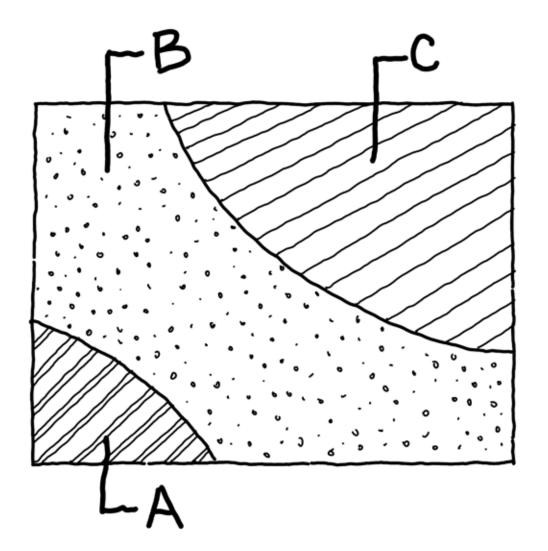
Lessons Learned:

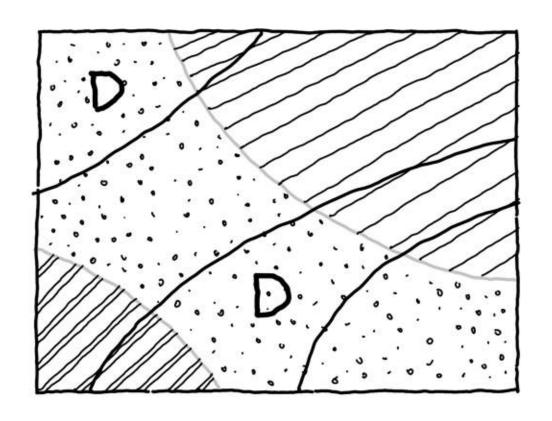


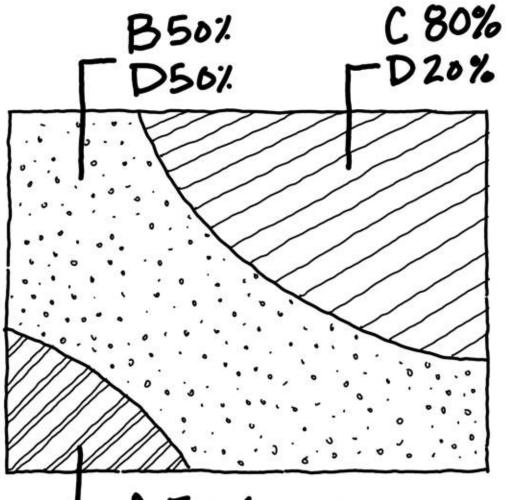
Back to the Drawing Board

- Scalable
- Simple
- Layered
- Compatible with standard planting conventions

dtls





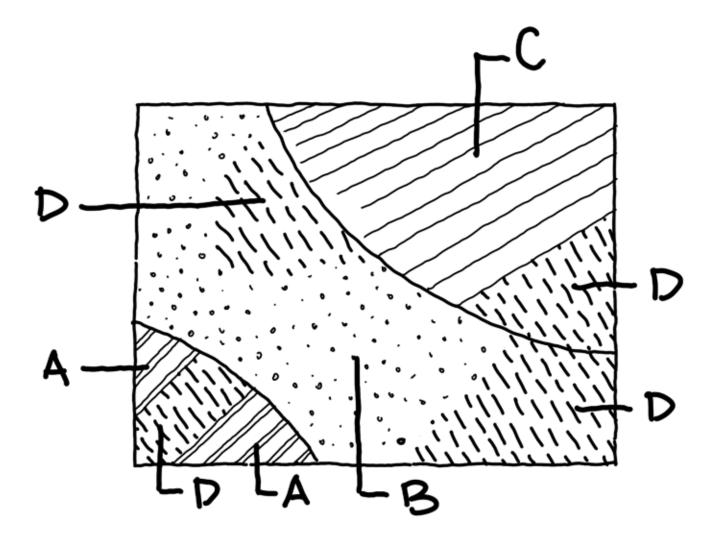


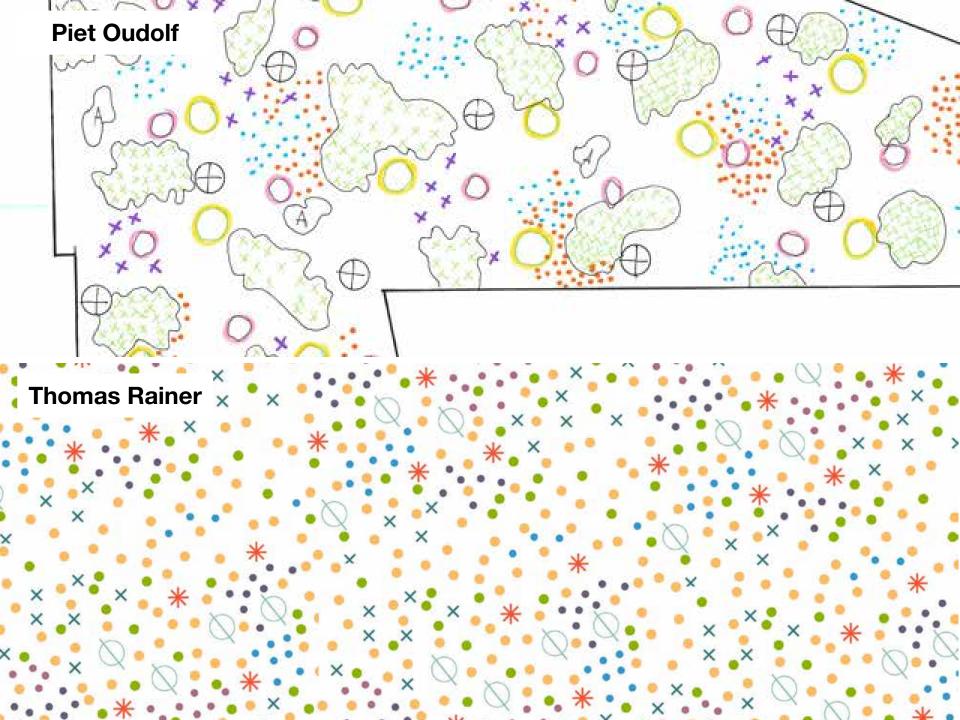
-A70%

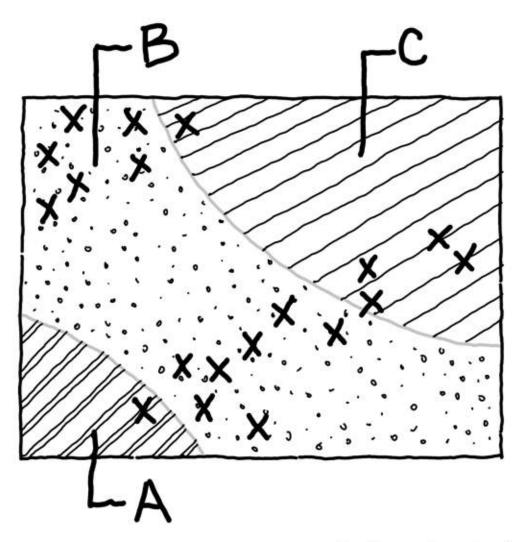
NOTE: CALL LANDSCAPE

ARCHITECT BEFORE INSTALL: 314-534-4000

dtls







$$X = D(3)$$

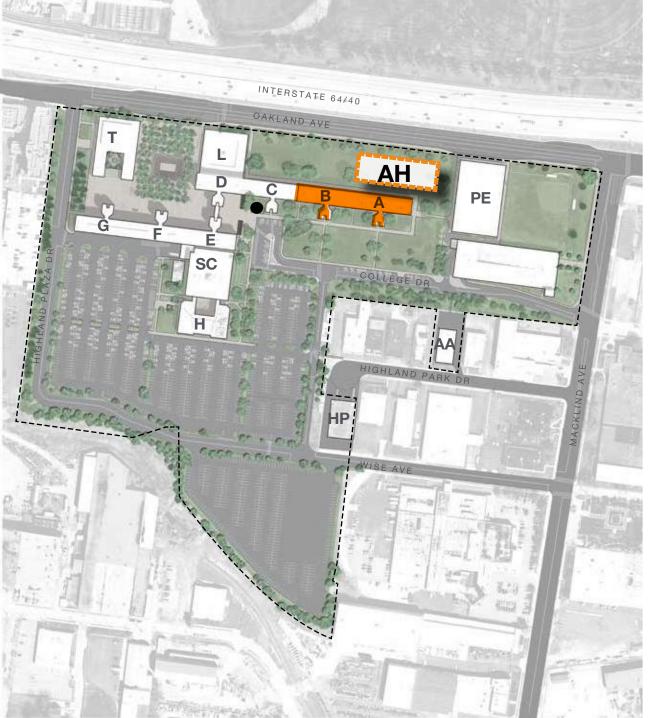
Graphic Symbols

- Establish layers within plantings
- Species that evolved to compete in a community (tall/leggy)
- Species that are not ideal for massing arrangements
- Short-lived

Hatch Regions

- Clumping forming / spreading
- Highly social species
- Mixes or blends to increase diversity





- P Center for Nursing and Health Sciences "AH" under construction (2018-2019)
- Building A & B to be removed (2019-2020)





- Create new campus entry from Oakland Avenue
- Leadership in Energy and Environmental Design (LEED) silver rating







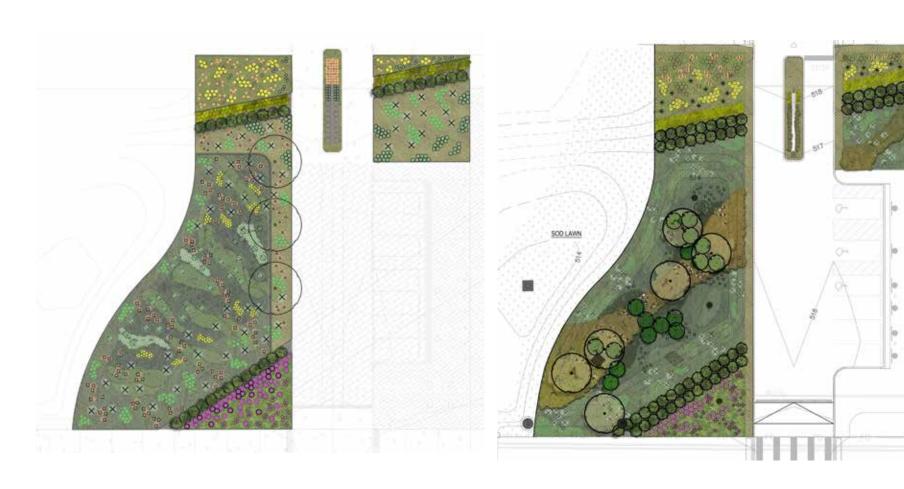


PLANTING PLAN

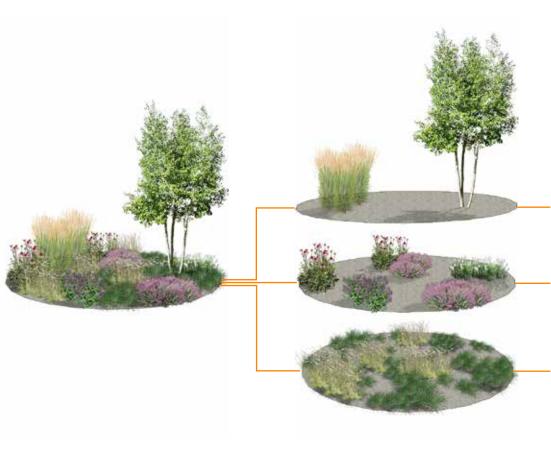




ORIGINAL REVISED







COMMUNITY BASED PLANTING DESIGN

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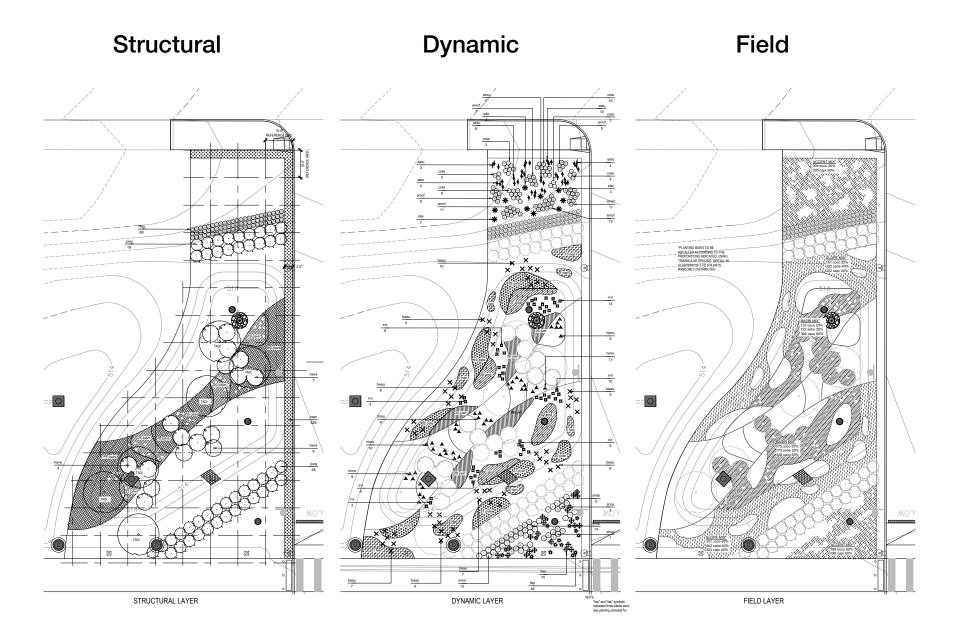
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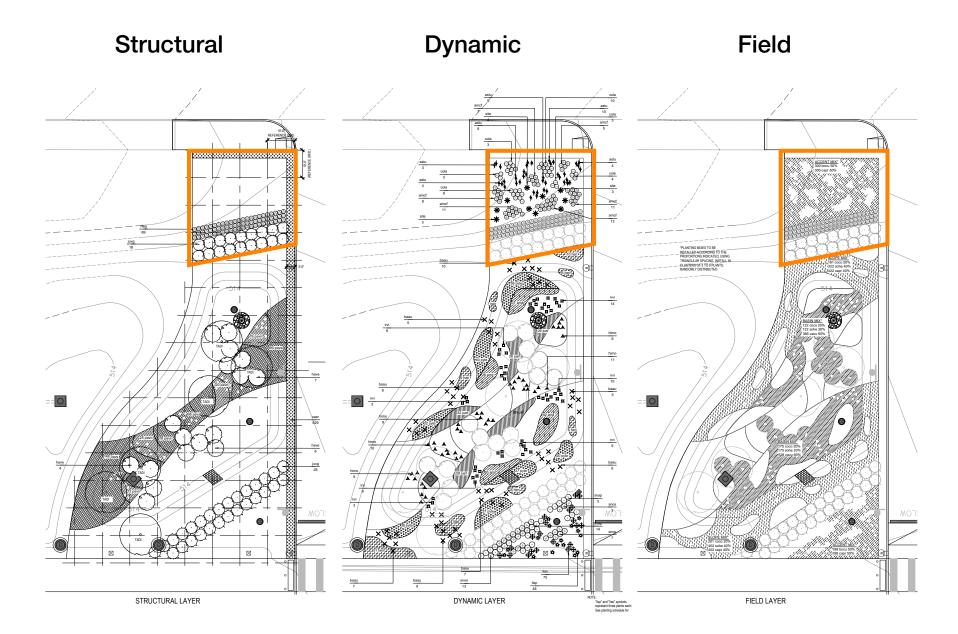
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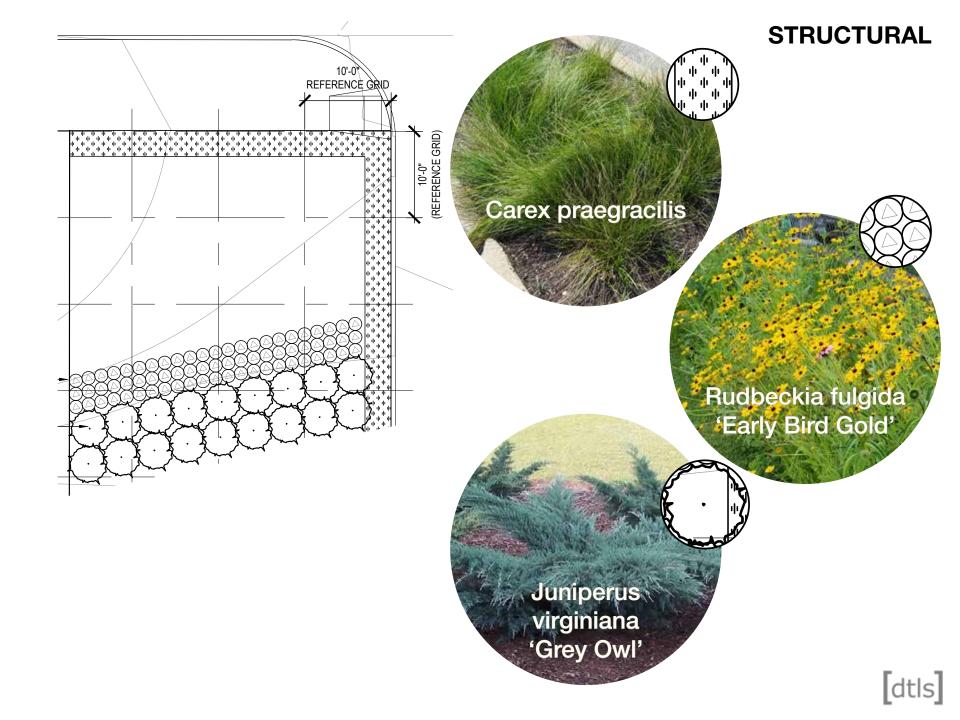


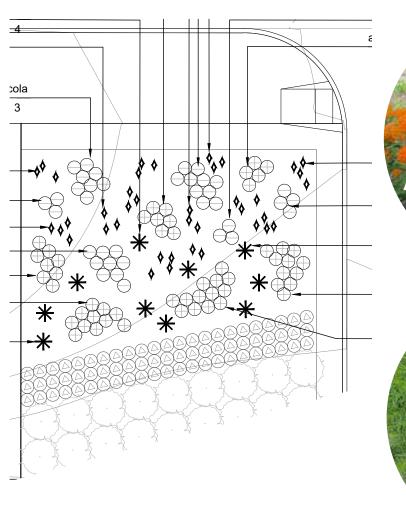












DYNAMIC

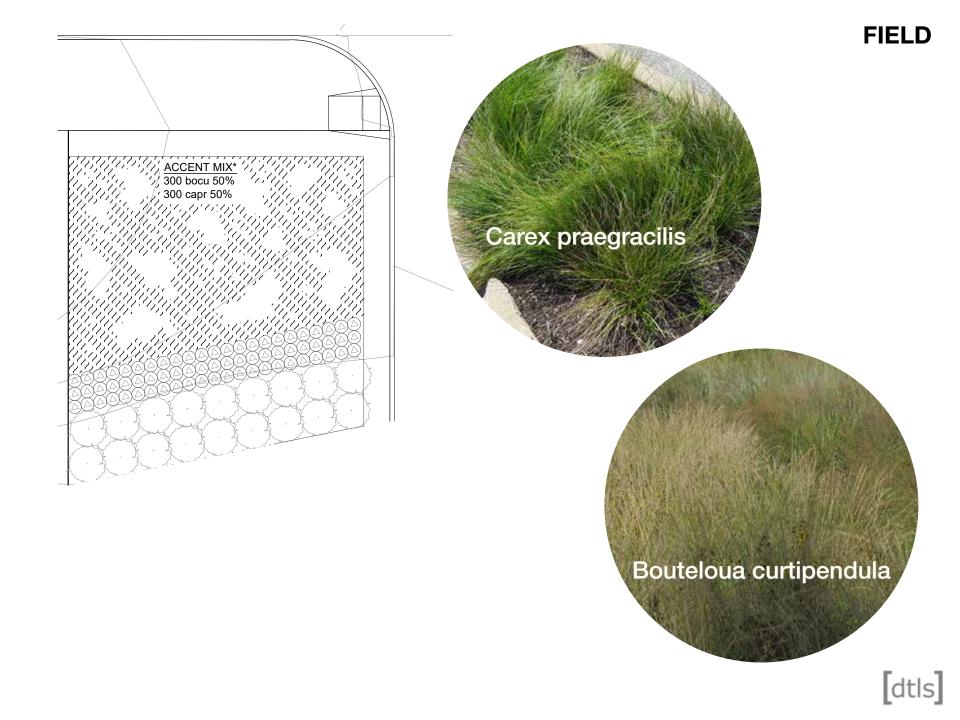
Asclepias tuberosa



Amsonia ciliata var. filifolia







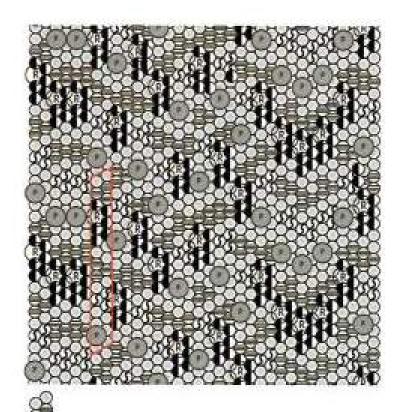






Modular Planting - Dan Pearson

Tokachi Millennium Forest, Japan





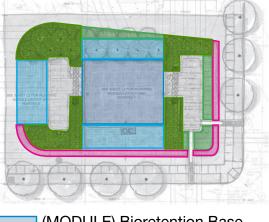
- Aster divaricatus

 Cimicifuga racemosa var. condifolia
 - Eupharbia griffithii "Fireglow"
 - R Rodgersia podophylla
 - Sanguisorba tenuifolia 'Alba'
 - Paeania P. obovata 60%, P. mlokosewitschii 40%



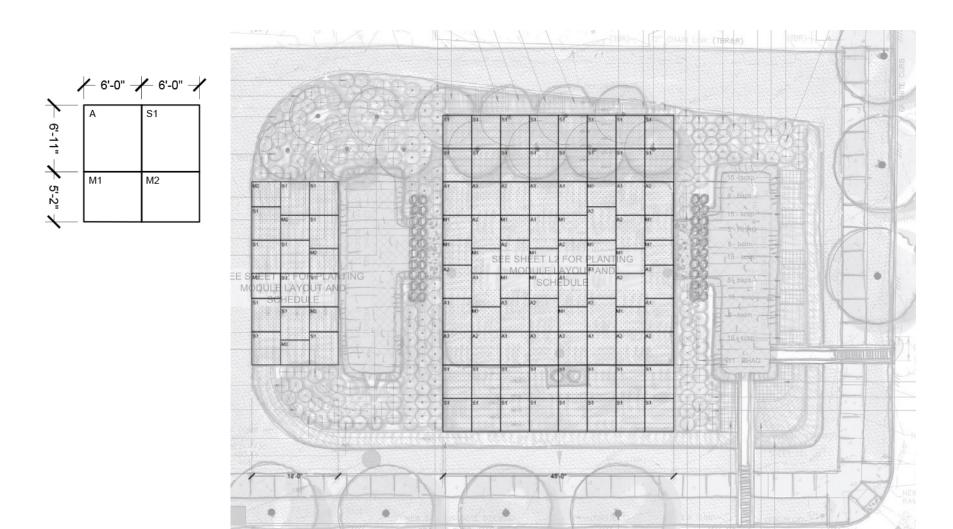


PLANTING AREAS

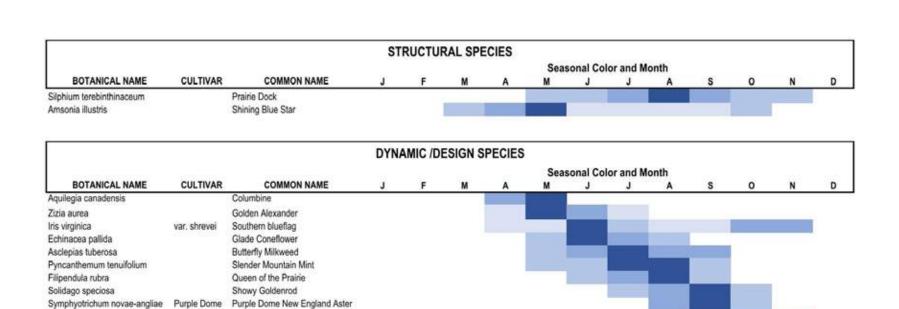


- (MODULE) Bioretention Base
- (MODULE) Side Slopes
- Accent / Edges
- Forebay Screening
- Shrubland









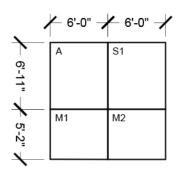
| | | | FIE | LD / FIL | LER SPI | ECIES | | | | | | | | |
|-------------------------|--------------------------|--------------------|-----|----------|---------|-------|---|---|---|---|---|---|-----|---|
| | Seasonal Color and Month | | | | | | | | | | | | | |
| BOTANICAL NAME | CULTIVAR | COMMON NAME | J | F | M | A | M | J | J | A | S | 0 | N | D |
| Antennaria neglecta | Prairie Pussytoes | | | | | | | | | | | | | |
| Carex praegracilis | 1 | Follway Sedge | | | | | | | | | | | | |
| Carex radiata | E | Eastern Star Sedge | | | | | | | | | | | | |
| Conoclinium coelestinum | E | Blue Mistflower | | | | | | | | 0 | | | | |
| Fragaria virginiana | 1 | Wild Strawberry | | | | | | 1 | | | | | 100 | |
| Packera aurea | 1 | Roundleaf Ragwort | | | | | | | | | | | | |
| Packera obovata | | Golden Groundsel | | | | | | | | | | | | |

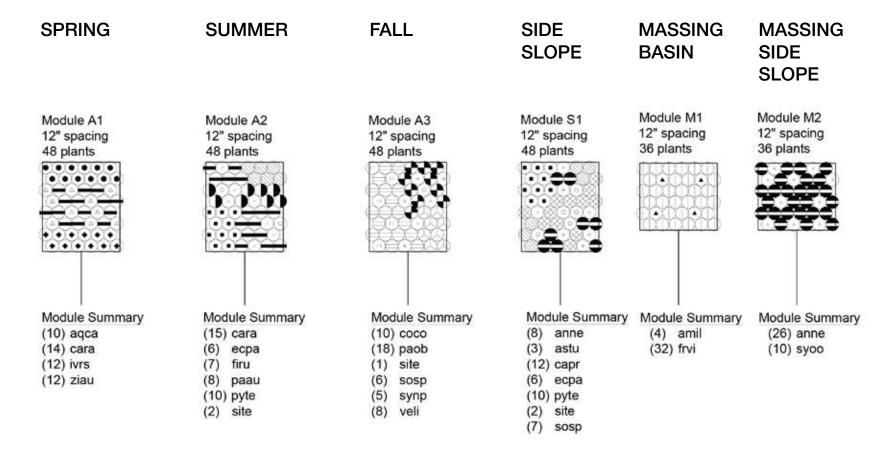
Symphyotrichum oblongifolium

Vernonia lettermanii

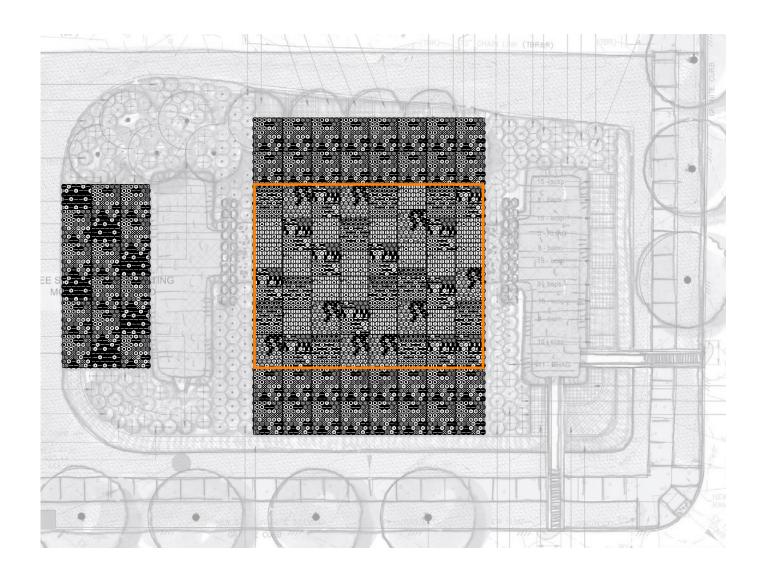
October Skies Aromatic aster Iron Butterfly Iron Butterfly ironweed



















THANK YOU