City of Dublin

Office of the City Manager
5555 Perimeter Drive • Dublin, OH 43017
Phone: 614.410.4400

Memo

To: Members of Dublin City Council

From: Dana L. McDaniel, City Manager

Date: March 15, 2022

Initiated By: Robert E. Ranc, Jr., Deputy City Manager/Chief Operating Officer
Jay Anderson, Public Service Director
Jean-Ellen Willis, PE, Deputy Director – Transportation & Mobility
Shawn Krawetzki, PLA, ASLA, Landscape Architect Manager

Re: I-270/Sawmill Road Interchange Landscape Plan

Background

At its October 11, 2021 meeting, Council referred the issue of evaluating a potential landscape plan enhancement at the I-270 Interchange at Sawmill Road to the Community Development Committee (CDC). The CDC considered the issue at its February 22, 2022 meeting (the staff report and presentation from the February 22 meeting are attached for reference).

Staff prepared three concepts for the CDC's consideration. Each concept builds on an overall design, with additional design elements in each concept adding additional costs. The CDC expressed its support for Concept A (see Exhibit 1 below), noting that it provides a cost-effective improvement to the current landscaping at the interchange. The estimated cost for Concept A is shown below:

I-270 Interchange at Sawmill Road – Cost Estimate

	Concept A
Site Work	$157,275
Quad Plantings	$163,900
Sawmill Road Plantings	$50,100
Stone Walls (Triangles)	$ -
Storm Water Features	$ -
Erosion Control	$10,000
Sub-Total	**$381,275**
Contractor Cost (18%)	$114,383
Contingency (30%)	$68,630
Total	**$564,287**

The CDC also discussed the fact that the east half of the interchange is in the city limits of Columbus, and that if the City moves forward with improving the interchange's landscaping some of the cost will be spent to improve land outside of the City of Dublin. The CDC wants to be sure the full Council supports the decision to spend City of Dublin funds for an improvement outside City of Dublin limits.

If the Council supports moving forward with improving the landscape plan at the interchange, staff will begin discussions with ODOT and the City of Columbus regarding the details of the

improvement. Staff's discussions with ODOT may result in changes to plant type, etc. Staff will ensure that it informs Council of any changes to the concept design based on discussions with ODOT.

Recommendation

If the Council supports improving the landscape plan at the interchange, staff recommends moving forward with Concept A and considering funding as part of the 2023 – 227 Capital Improvements Program.

Exhibit 1 – I-270/Sawmill Road Interchange – Concept A

City of Dublin
OHIO, USA

I-270 Interchange at Sawmill Road Concepts

COMMUNITY DEVELOPMENT COMMITTEE

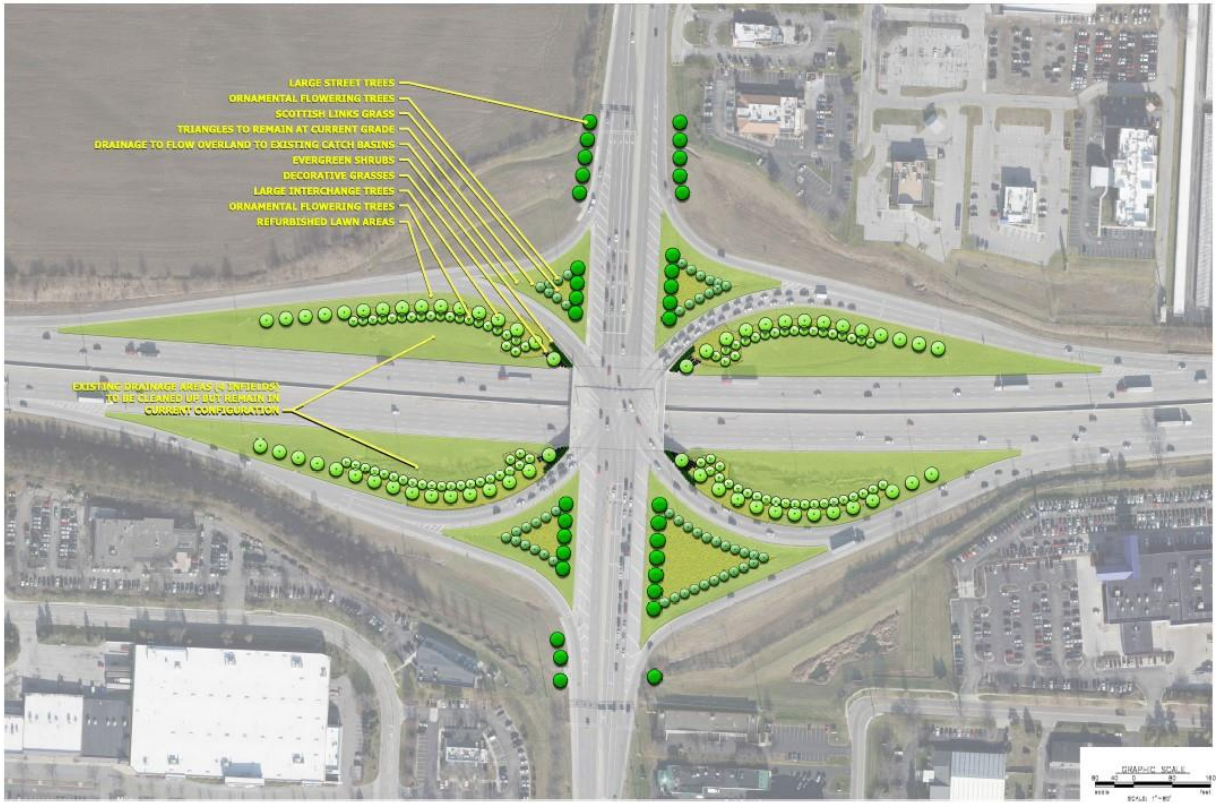
February 22, 2022

Background

- Staff is coordinating with the City of Columbus and ODOT to assume maintenance of the interchange

- **October 11, 2021 City Council Meeting** – Request to consider improved landscape plan at interchange

Concept A


LARGE STREET TREES
ORNAMENTAL FLOWERING TREES
SCOTTISH LINKS GRASS
TRIANGLES TO REMAIN AT CURRENT GRADE
DRAINAGE TO FLOW OVERLAND TO EXISTING CATCH BASINS
EVERGREEN SHRUBS
DECORATIVE GRASSES
LARGE INTERCHANGE TREES
ORNAMENTAL FLOWERING TREES
REFURBISHED LAWN AREAS
EXISTING DRAINAGE AREAS (& TREES) TO BE CLEANED UP BUT REMAIN IN CURRENT CONFIGURATION

City of Dublin
OHIO, USA

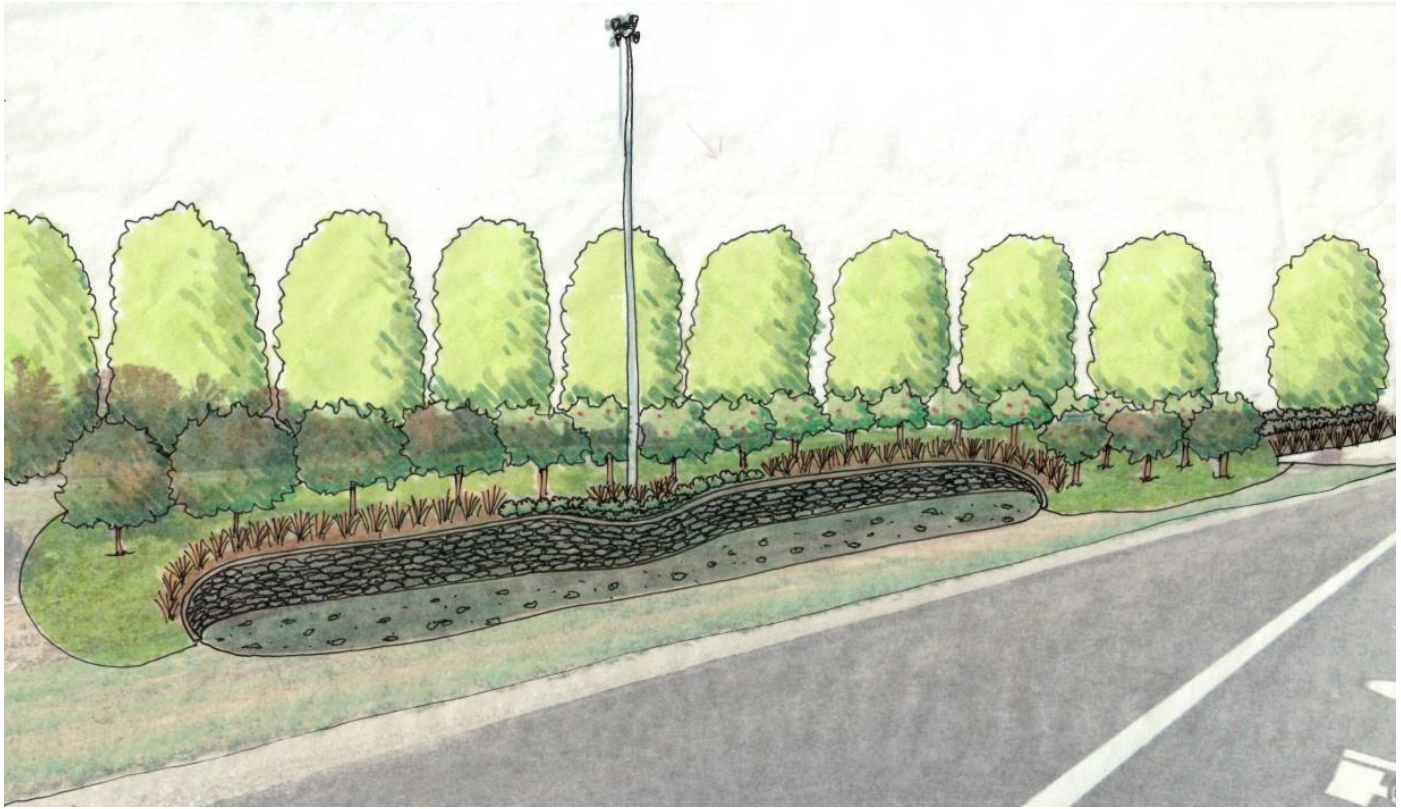
Concept B

City of Dublin
OHIO, USA

Concept C

Upper Triangle Rendering

Infield Rendering



Cost Estimates

I-270 Interchange at Sawmill Road – Cost Estimates

	Concept A	Concept B	Concept C
Site Work	$157,275	$157,275	$157,275
Quad Plantings	$163,900	$163,900	$163,900
Sawmill Road Plantings	$50,100	$50,100	$50,100
Stone Walls (Triangles)	$ -	$963,800	$963,800
Storm Water Features	$ -	$ -	$751,500
Erosion Control	$10,000	$10,000	$10,000
Sub-Total	**$381,275**	**$1,345,075**	**$2,096,575**
Contractor Cost (18%)	$114,383	$242,114	$377,384
Contingency (30%)	$68,630	$403,523	$628,973
Total	**$564,287**	**$1,990,711**	**$3,102,931**

I-270 at Sawmill Road Interchange - Considerations

- Improved Maintenance vs. Improved Landscape Plan
  - City is taking on significant maintenance cost to improve maintenance at existing interchange

- If CDC recommends an option to Council, include for consideration in 2023 – 2027 CIP
  - Future maintenance costs included in future operating budgets

QUESTIONS

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Re: I-270 Interchange at Sawmill Road Concepts

Background

At the November 30, 2021 Community Development Committee (CDC) meeting, staff provided a summary of the City's plans regarding assuming maintenance responsibilities for the I-270 Interchange at Sawmill Road. Per Council's request at its October 11, 2021 meeting, staff committed to return to the CDC with preliminary design concepts to improve the landscape plan at the interchange.

Staff has prepared three concepts for a new landscape plan at the interchange (see Appendix A). The three concepts build on an overall design, with additional design elements in each concept adding additional cost. Concept A features new plantings in the quads throughout the interchange, as well as new plantings along Sawmill Road surrounding the interchange. Concept B adds stone wall triangles, and Concept C adds storm water features. The cost estimates for each concept are included below. Additionally, staff estimates the maintenance costs for each concept as follows:

- Concept A - $55,000 annually
- Concept B - $55,000 annually
- Concept C - $70,000 annually

One of the City's landscape maintenance contractors would address the necessary maintenance, and additional funding would be necessary in the City's operating budget. If the CDC recommends moving forward with an improved landscape plan at the interchange, staff recommends including the approved landscape plan for funding consideration as part of the 2023 – 2027 Capital Improvement Program.

I-270 Interchange at Sawmill Road – Cost Estimates

	Concept A	Concept B	Concept C
Site Work	$157,275	$157,275	$157,275
Quad Plantings	$163,900	$163,900	$163,900
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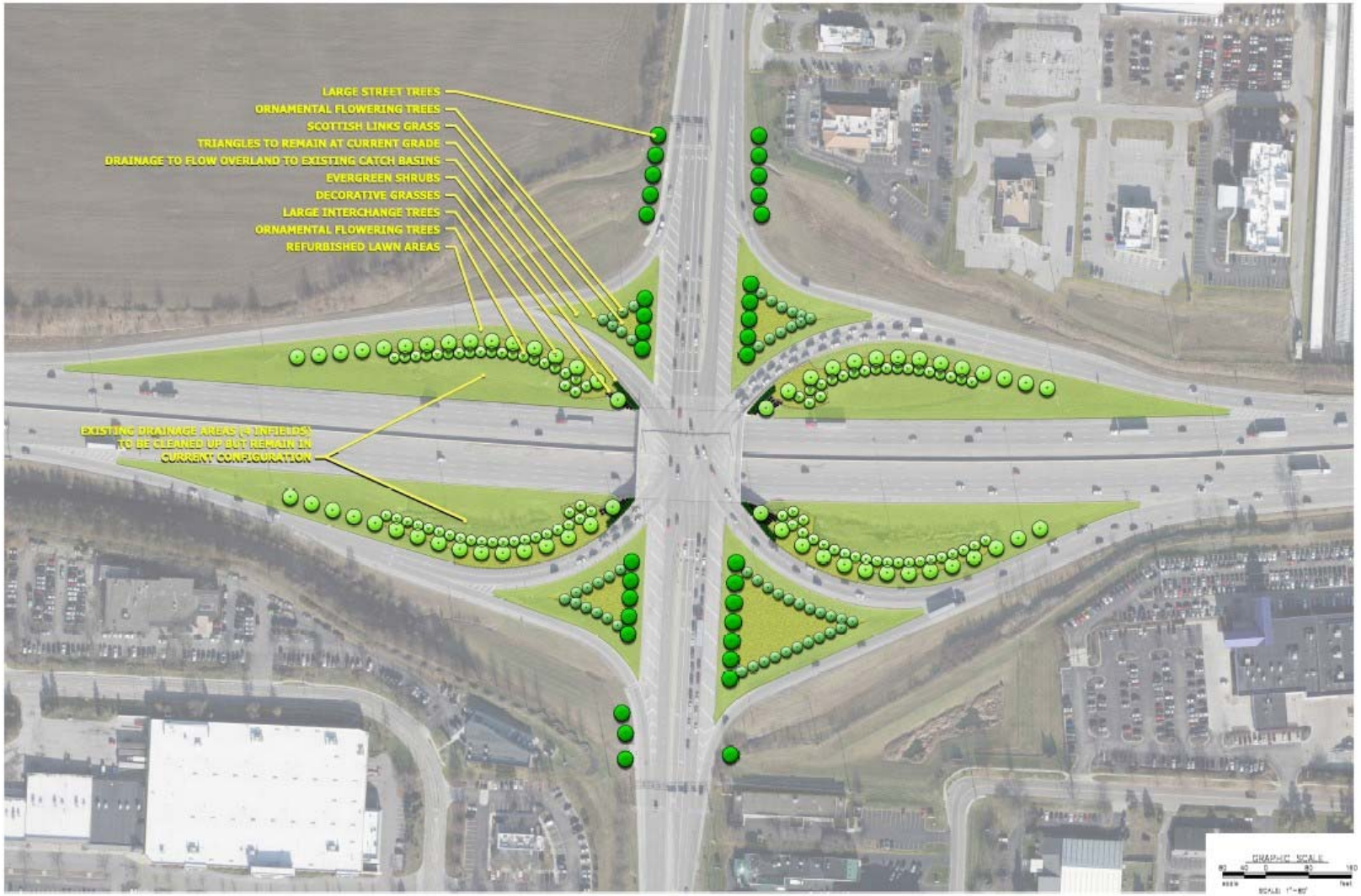
Contingency (30%)	$68,630	$403,523	$628,973
Total	**$564,287**	**$1,990,711**	**$3,102,931**

Recommendation

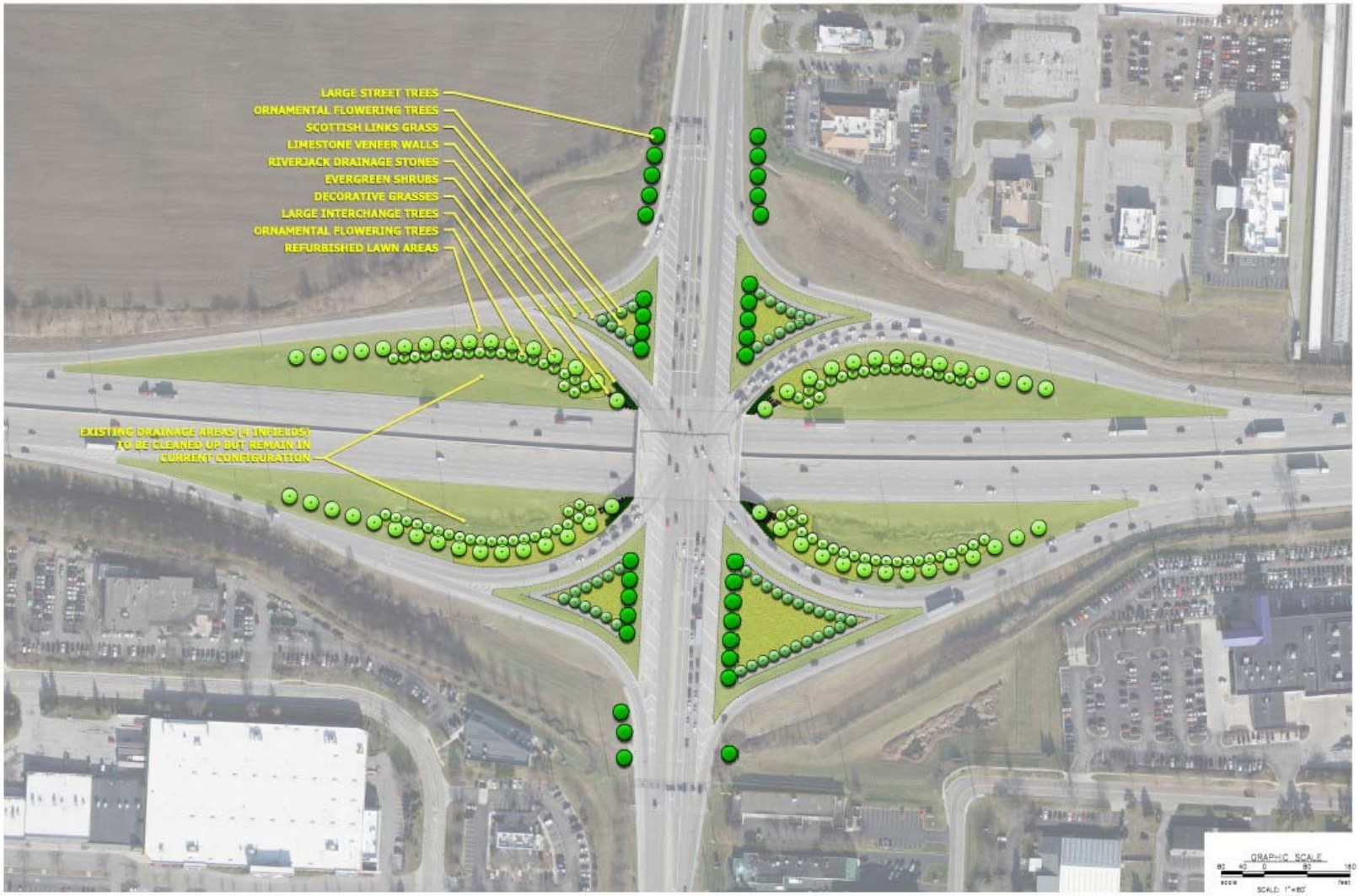
Staff requests the CDC provide direction on the following items of consideration:

1. Should the City proceed with providing an improved landscape plan at the I-270 at Sawmill Road Interchange?
2. If the CDC determines to recommend an improved landscape plan, which of the proposed concepts does the CDC prefer for a recommendation to the full Council?

Appendix A – I-270 Interchange at Sawmill Road Concepts



Concept A


LARGE STREET TREES
ORNAMENTAL FLOWERING TREES
SCOTTISH LINKS GRASS
LIMESTONE VENEER WALLS
RIVERJACK DRAINAGE STONES
EVERGREEN SHRUBS
DECORATIVE GRASSES
LARGE INTERCHANGE TREES
ORNAMENTAL FLOWERING TREES
REFURBISHED LAWN AREAS
EXISTING DRAINAGE AREAS (4 INFIELDS) TO BE CLEANED UP BUT REMAIN IN CURRENT CONFIGURATION
GRAPHIC SCALE
SCALE: 1"=80'

Concept B

LARGE STREET TREES
ORNAMENTAL FLOWERING TREES
SCOTTISH LINKS GRASS
LIMESTONE VENEER WALLS
RIVERJACK DRAINAGE STONES
EVERGREEN SHRUBS
DECORATIVE GRASSES
LARGE INTERCHANGE TREES
ORNAMENTAL FLOWERING TREES
REFURBISHED LAWN AREAS
EXISTING INTERCHANGE LIGHT POLES LOCATED BEHIND LIMESTONE WALLS (TYP)
LIMESTONE WALLED STORMWATER DRY BASINS WITH RIVER ROCK BOTTOM TO REDUCE THE EROSION DITCHES WITHIN INTERCHANGE INFIELDS
COLORFUL ACCENT PLANTING BEDS CONTAINING EVERGREENS, DECORATIVE GRASSES, PERENNIALS, AND GROUNDCOVERS
GRAPHIC SCALE

Concept C