UCHealth – University of Colorado Hospital Lots 4 & 6 Expansion

University of Colorado Design Review Board Analysis & Concept Design April 9, 2020



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A. Introductions

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A/E Team



Martin & Martin - Civil and Structural Engineering

Dig Studio – Landscape Architecture



B. Project Description

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Project Goals & Objectives

- 1. Provide immediate parking relief while Lot 2 goes offline for the construction of planned structured parking.
- 2. Create a landscaped campus edge along Colfax that helps screen lots 4 and 6 and enhances the pedestrian environment in a way that works with future growth of the campus.



Parking Projections

	2017/2018	2019 ²	2020	2021	2022	2023 ³	2024	2025	2026 4	2027	2028	2029
Population Gro	wth	250-2767	9-0.0240	500-500	~~~	1910-2-1	No. Company					9.5
Inpatient	620	684	684	684	684	787	787	787	859	859	859	859
Outpatient	4,639	5,396	5,666	5,949	6,247	6,559	6,887	7,231	7,593	7.972	8,371	8,790
Employee	6,350	6,383	6,442	6,501	6,560	7,197	7,263	7,330	7,801	7,874	7,948	8,022
Vendors	107-010-0	100	200	1,000	150	100	0.75536000	(0)(0)(0)(0)				- 200
Total	11,609	12,563	12,991	14,134	13,641	14,642	14,937	15,349	16,253	16,705	17,178	17,670
Parking Deman	d											
Inpatient	542	598	598	598	598	687	687	687	750	750	750	750
Outpatient	1,021	1,188	1,248	1,310	1,375	1,444	1,516	1,592	1,672	1,755	1,843	1,935
Employee	4,321	4,343	4,383	4,423	4,464	4,897	4,942	4,988	5,308	5,358	5,408	5,458
Vendors	0.000	100	100	800	-850	-50	-100				257,1157	55000
Total	5,884	6,229	6,328	7,131	5,587	6,978	7,146	7,267	7,730	7,863	8,001	8,144
Effective Suppl	v¹											
Inpatient	402	402	402	402	402	402	402	402	402	402	402	402
Outpatient	1,040	1,040	1,040	1,040	1,040	1,040	1,040	1.040	1,040	1,040	1,040	1,040
Employee	3,608	4,653	4,558	3,798	4,606	3,513	3,608	3,608	3,608	3,608	3,608	3,608
Total	5,050	6,095	6,000	5,240	6,048	4,955	5,050	5,050	5,050	5,050	5,050	5,050
Adequacy/Defic	iency											
Inpatient	(140)	(196)	(196)	(196)	(196)	(286)	(286)	(286)	(349)	(349)	(349)	(349)
Outpatient	19	(148)	(207)	(270)	(335)	(404)	(476)	(552)	(632)	(715)	(803)	(895)
Employee	(713)	310	175	(625)	142	(1,383)	(1.334)	(1,380)	(1,700)	(1,750)	(1,799)	(1,850
		(34)	(228)		(389)					(2,813)		(3,094
Total	(833)	(34)	(228)	(1,090)	(389)	(2,073)	(2,096)	(2,217)	(2,680)	(2,813)	(2,951)	

¹Effective Supply: the maximum number of parking spaces that can realistically be used within a given system. The number of spaces supplied to each user group is estimated based on peak efficiency usage remaining at 95% of total inventory



²Opening of Capri Lot (Net 1,200 spaces)

³ Tower III completion (Net 103 beds, 576 Employees) Sunset of Capri Lot (Net loss -1,200 spaces)

⁴ Tower III opens more floors(Net gain 72 beds, 403 Employees)

Context of Project – Campus



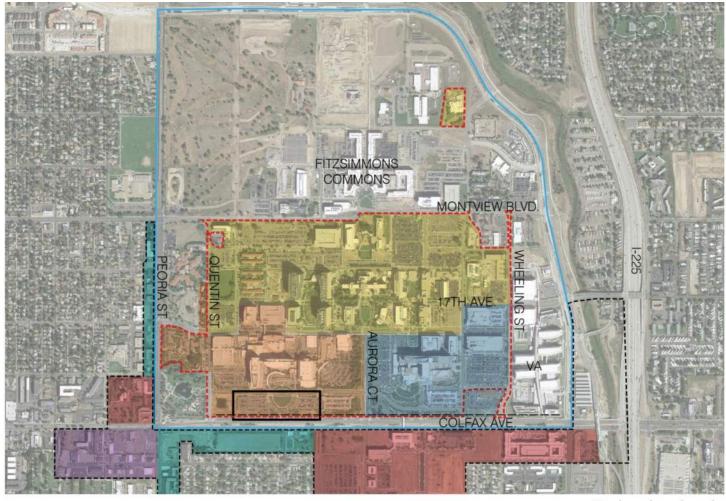


Context of Project – Campus and Area Zoning

The Fitzsimmons stretch of the Colfax corridor is currently undergoing redevelopment with properties on the south side of the street zoned to include retail and mixed-use with an urban street presence inviting pedestrian activity.

2012 MP Study Area
 Medical Campus Boundary
 Project Boundary
 University of Colorado
 UCHealth
 Children's Hospital Colorado
 Approximate Building Setback (+/- 65' from curb; set by south facade of VA)
 Fitzsimmons Boundary Area District
 Retail/Mixed Use (zoned)
 Small-Scale Retail (zoned)

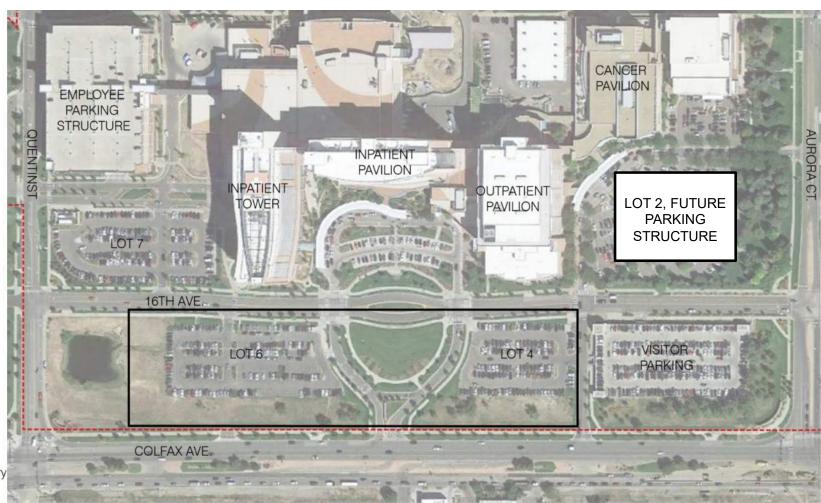
Shopping Center (zoned)





Context of Project – Site Location

Lots 4 and 6 lie in the blocks between 16th Avenue and Colfax, south of the inpatient and outpatient facilities.



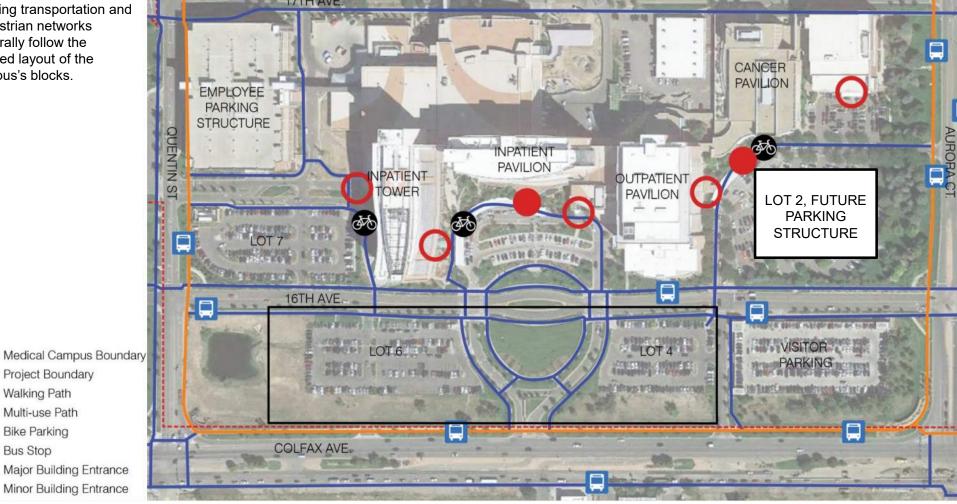
---- Medical Campus Boundary

Project Boundary



Analysis - Connectivity

Existing transportation and pedestrian networks generally follow the gridded layout of the campus's blocks.



Multi-use Path Bike Parking **Bus Stop** Major Building Entrance Minor Building Entrance

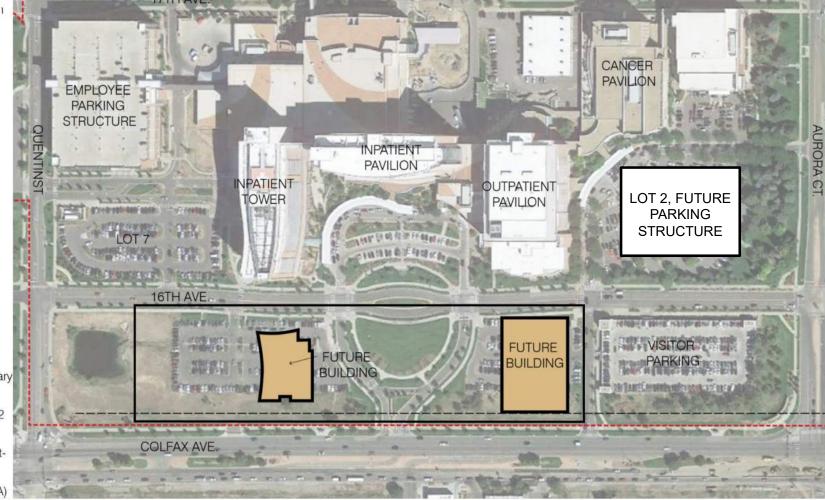
Project Boundary Walking Path



Analysis – Future Build-out

The 2012 Campus Masterplan calls for the blocks between 16th Avenue and Colfax to be developed with future uchealth buildings.

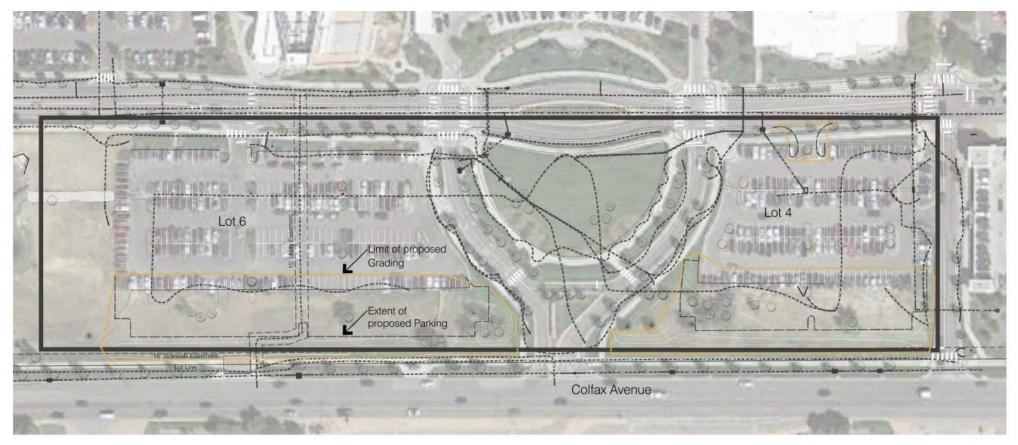
*The surface parking lot expansions in this proposal will not inhibit development of the 2012 Campus Master Plan







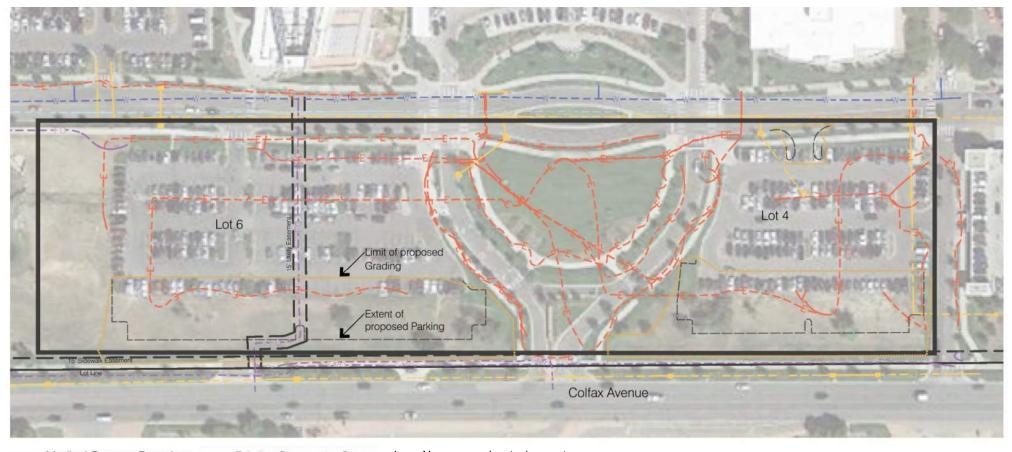
Analysis – Site Survey



- 1. Minimal impact to existing parking operations.
- Parking island placement designed to mimic existing parking lot spacing



Analysis – Utilities

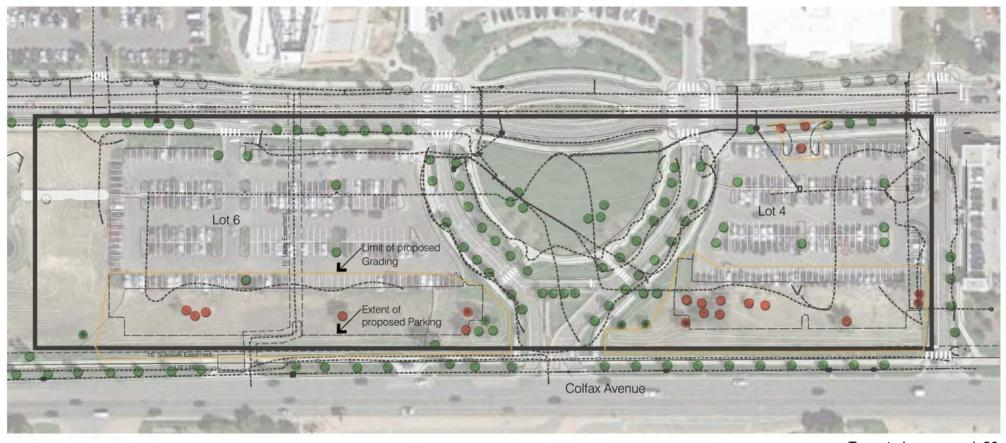


- Medical Campus BoundaryProject Boundary
 - --- Existing Electrical
 - --- Existing Fiber Optic
- Existing Stormwater Sewer
- Existing Sanitary Sewer
- ---- Existing Water

- I. No proposed water/sewer taps
- Parking expansion will surface drain to existing storm/drainage infrastructure in compliance with the Master Drainage Study.
- 3. Regional detention/water quality provided downstream.
- 4. Minimal utility work to provide electric for proposed parking lot lighting.



Analysis – Impacted Trees



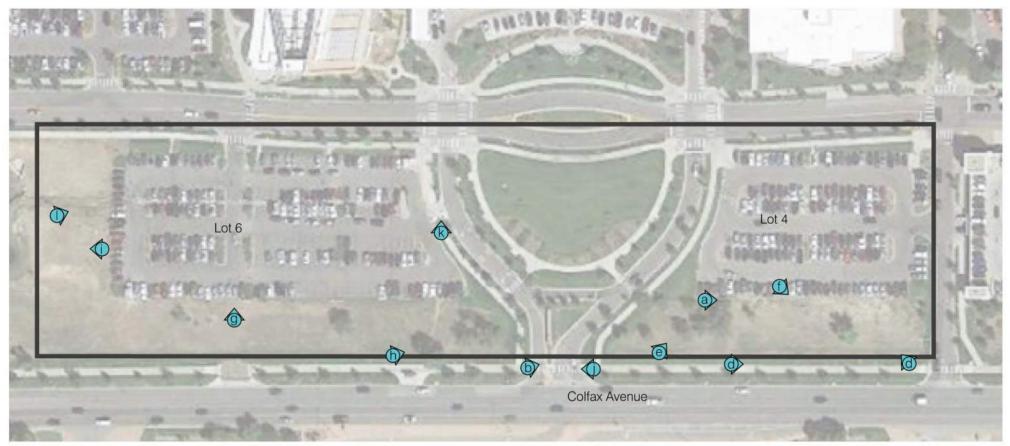
Tree To Be Removed

Tree To Be Saved

Trees to be removed: 20



Analysis – Site Photos



& Keyed photo (see next two slides)

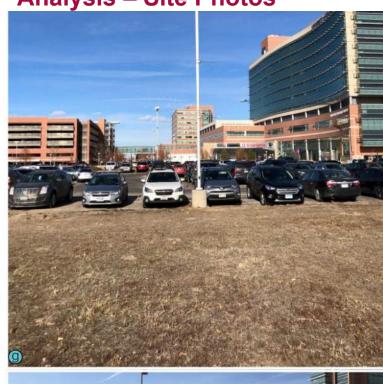


Analysis – Site Photos



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Analysis - Site Photos













C. Concept

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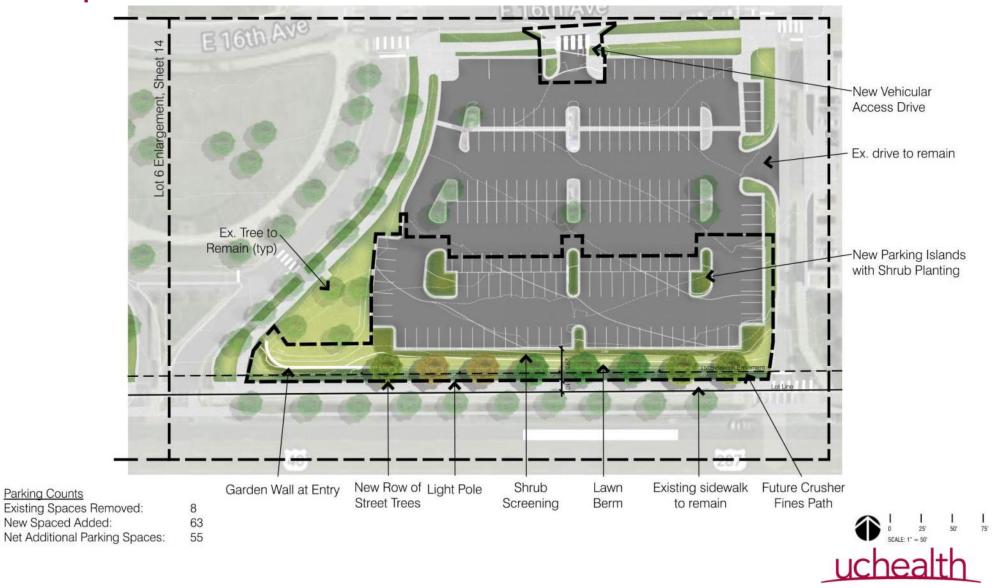
Concept – Site Plan



Parking Counts
Existing Spaces Removed: 37 New Spaced Added: 166 Net Additional Parking Spaces: 129



Concept - Site Plan: Lot 4

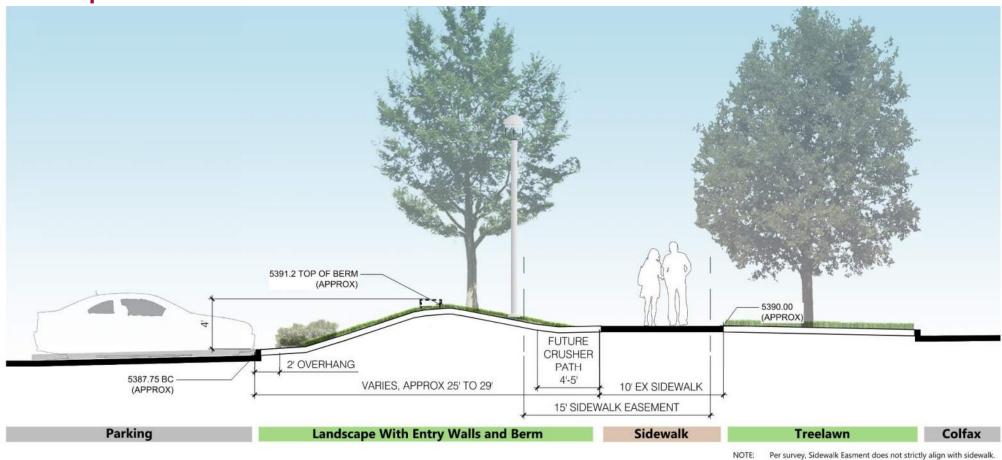


Concept - Site Plan: Lot 6



Existing Spaces Removed: New Spaced Added: Net Additional Parking Spaces:

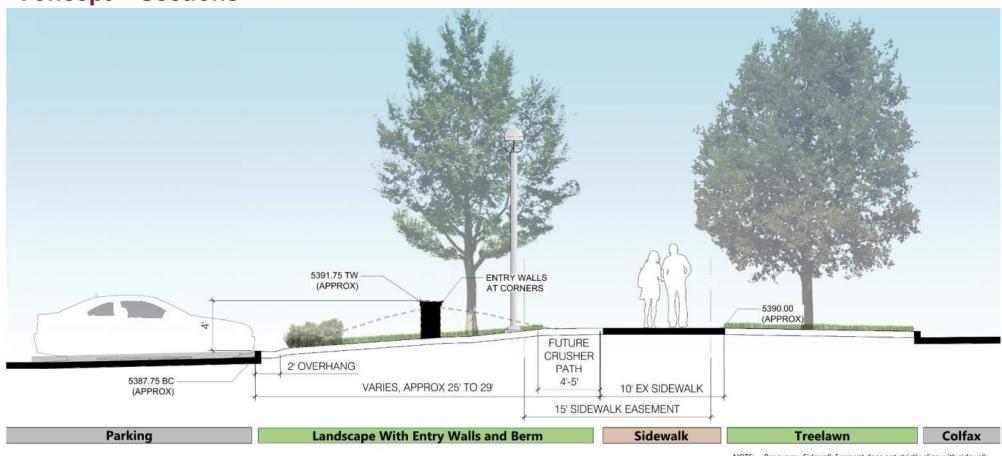
Concept – Sections



Typical Section B: Through Berm



Concept – Sections



Typical Section B: Through Garden Wall

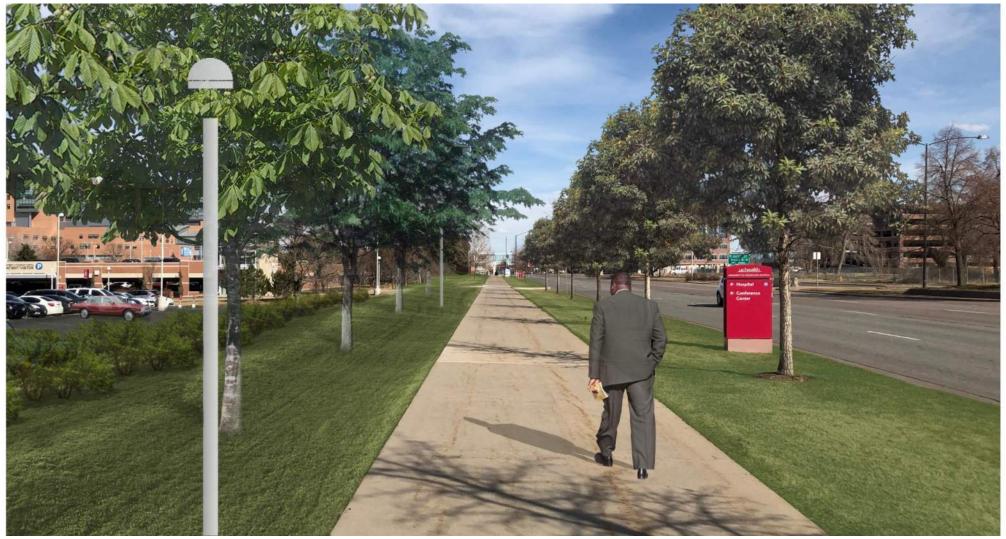
NOTE: Per survey, Sidewalk Easment does not strictly align with sidewalk.





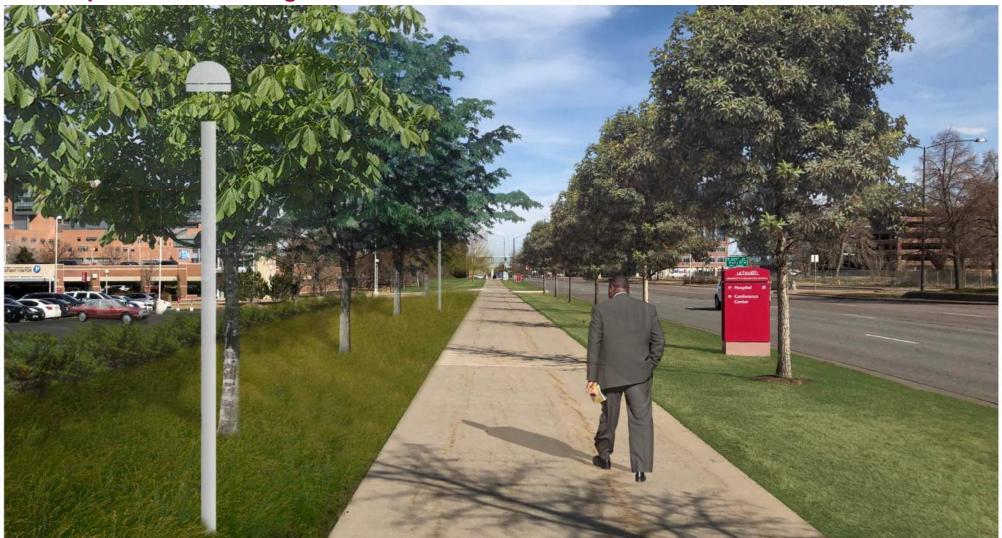
View Looking East, Lot 4 (Before)





View Looking East, Lot 4 (After, Lawn Berm Option)





View Looking East, Lot 4 (After, Native Seed Berm Option)





View Looking West, Lot 6 (Before)





View Looking West, Lot 6 (After, Lawn Berm Option)





View Looking West, Lot 6 (After, Native Seed Berm Option)



Concept – Plant Palette

Trees







Gymnocladus diocus Kentucky Coffee Tree

Catalpa speciosa Catalpa

Gleditsia trianthos 'Shademaster' Shademaster Honey Locust

Shrubs



Syringa pubescens 'Miss Kim' Miss Kim Lilac



Spiraea nipponica 'Snowmound' Snowmound Spirea



Cornus sericea 'Kelseyi' Kelsey Dogwood

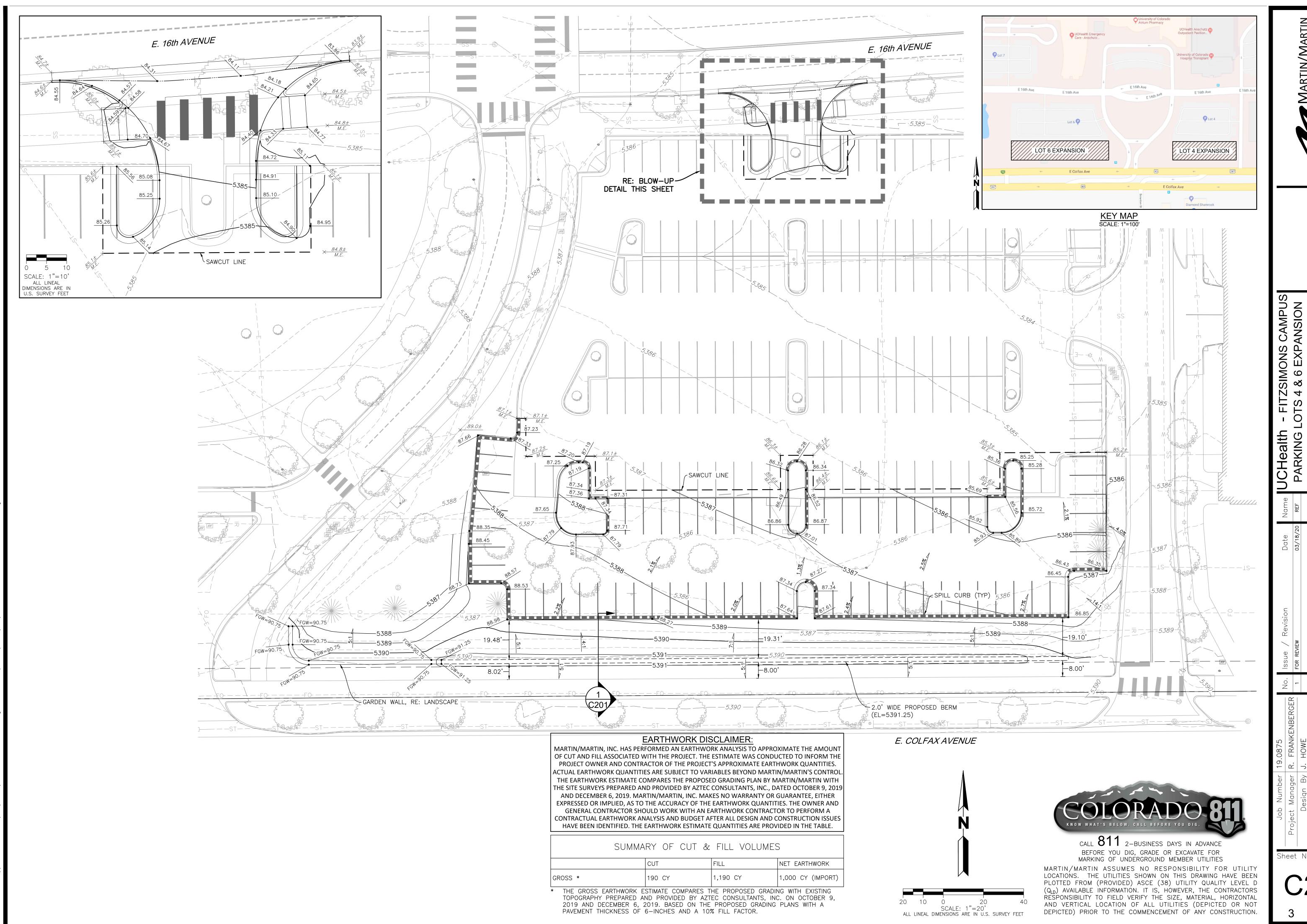


Calamagrostis x acutiflora 'Karl Foerster' Feather Reed Grass

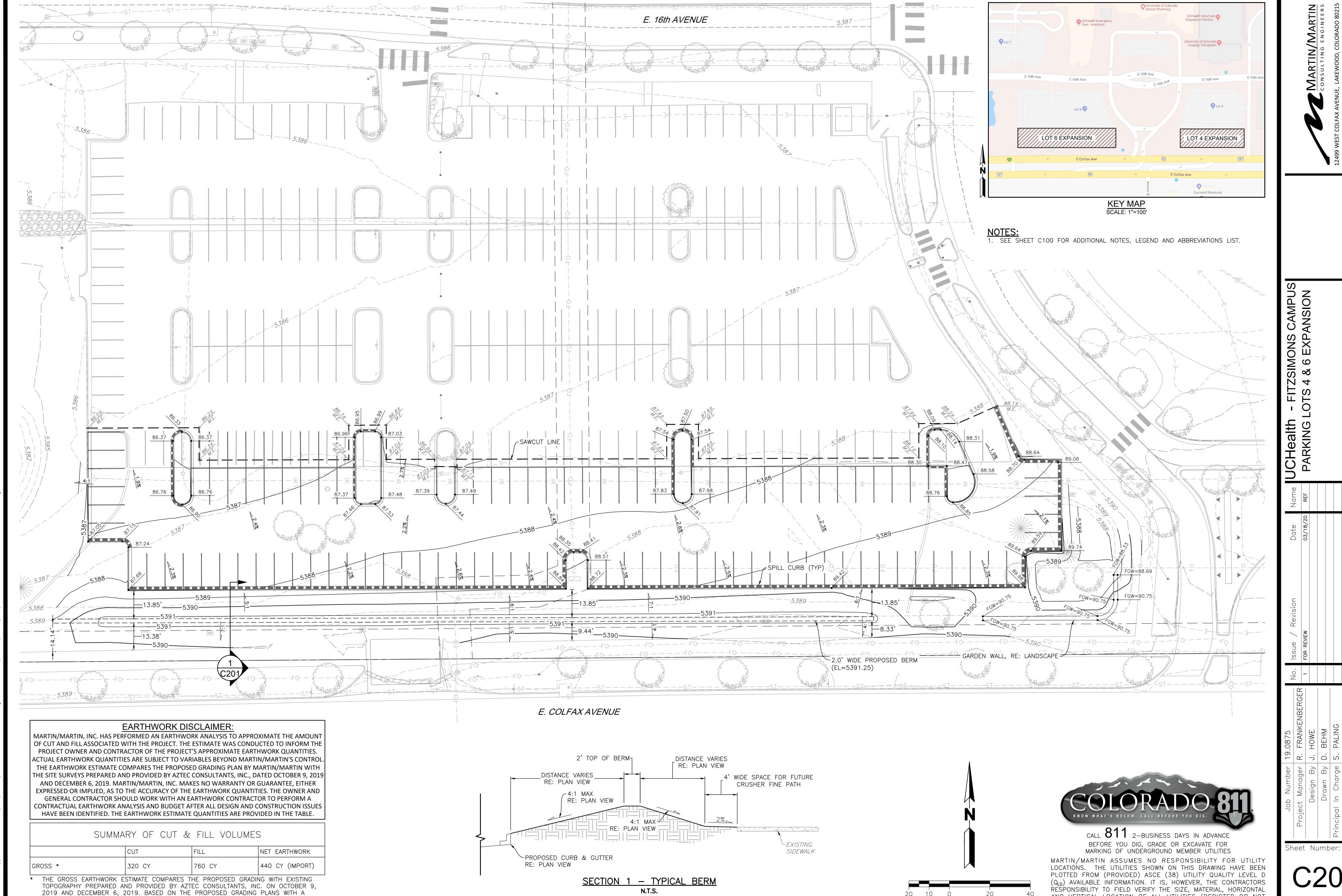


D. Appendix

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Sheet Number:



PAVEMENT THICKNESS OF 6-INCHES AND A 10% FILL FACTOR.

AND VERTICAL LOCATION OF ALL UTILITIES (DEPICTED OR NOT

DEPICTED) PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.

ALL LINEAL DIMENSIONS ARE IN U.S. SURVEY FEET