# **CAS FOUNDATION RMD**

110 Fawcett Street, Cambridge, MA 02138

#### OWNER:

CAS Foundation, LLC

#### **ARCHITECT:**

Elton + Hampton Architects 103 Terrace Street Roxbury, MA 02120 (617) 708-1071

#### **CIVIL ENGINEER:**

Joyce Consulting Group, Inc. 100 Wyman Road Braintree, MA 02184 (781) 817-6120

#### TRAFFIC CONSULTANT:

Howard Stein Hudson 11 Beacon Street Suite 1010 Boston, MA 02108 (617) 482-7080

#### **SECURITY:**

Lan-Tel Communications, Inc. 1400 Providence Highway Suite 3100 Norwood, MA 02062 (857) 939-8181



#### **DRAWING LIST**

Cover Page

Plan of Land - Feldman Survey

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C-2 Site Layout & Grading Plan

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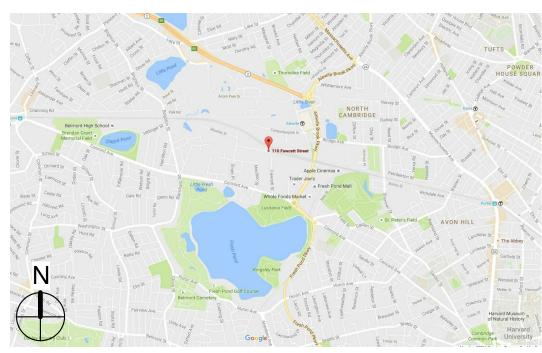
A-05 Proposed Floor Plan

A-06 Building Elevations

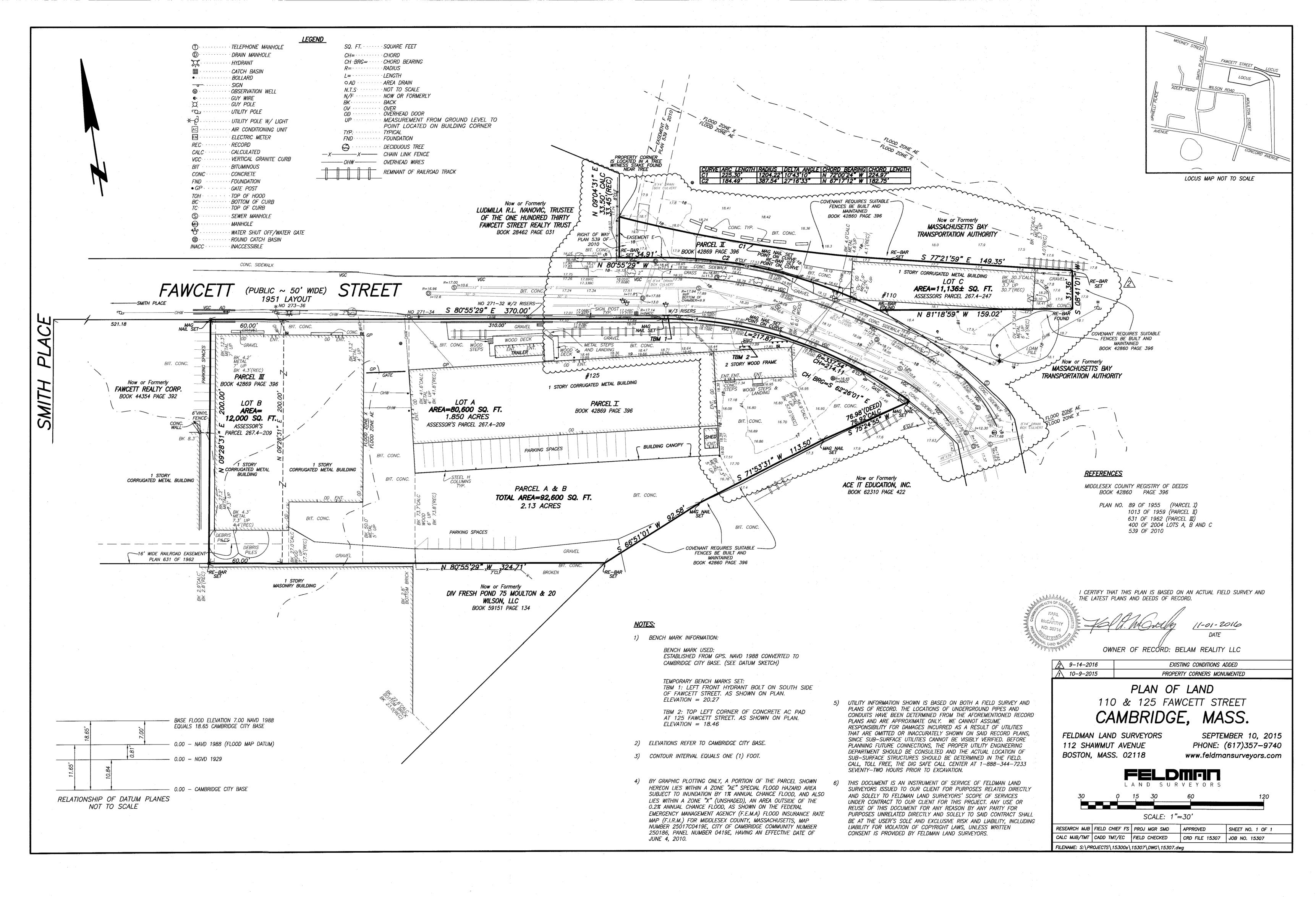
A-07 Site Photographs

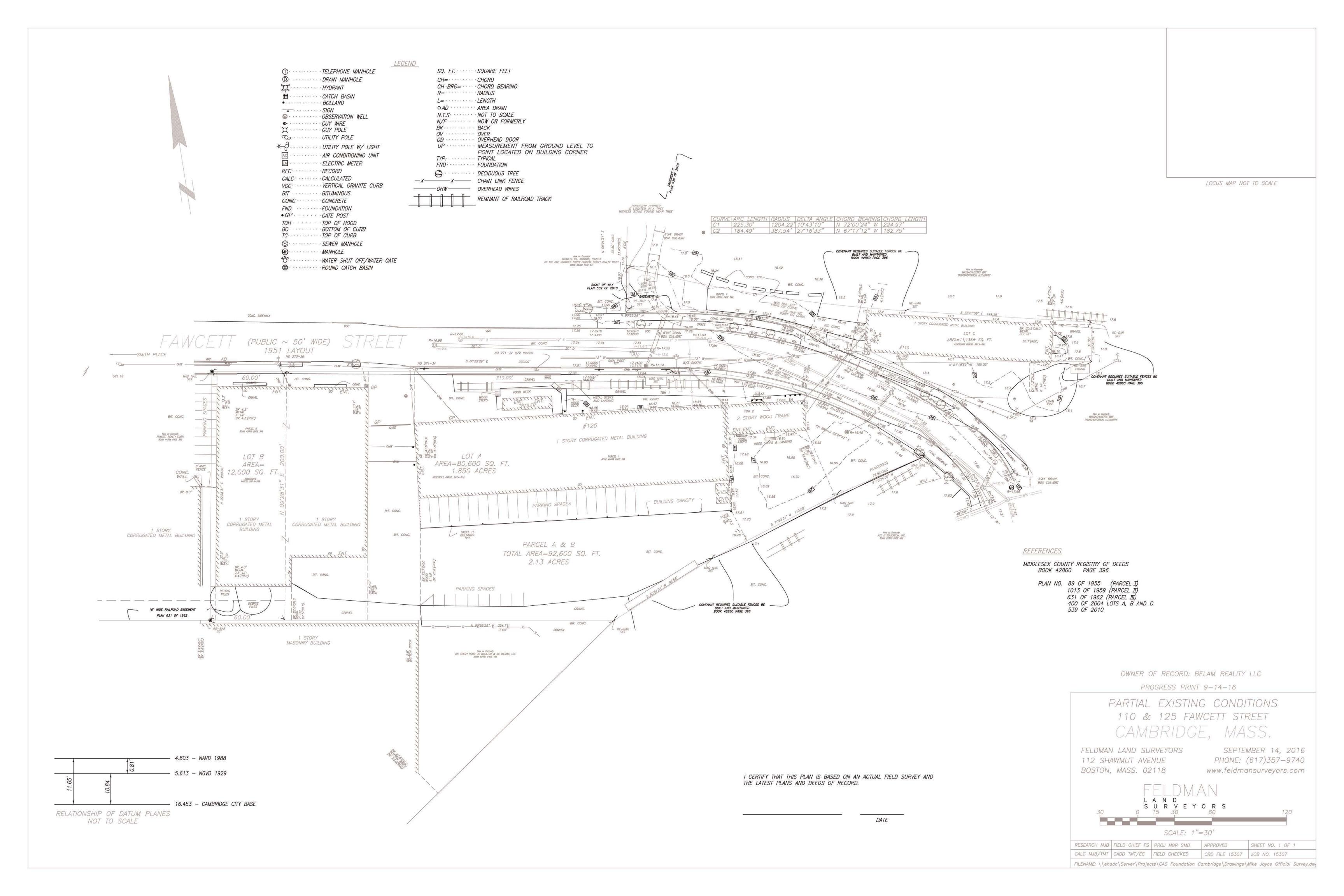
A-08 Exterior Rendering SP-1 Site Security Plan

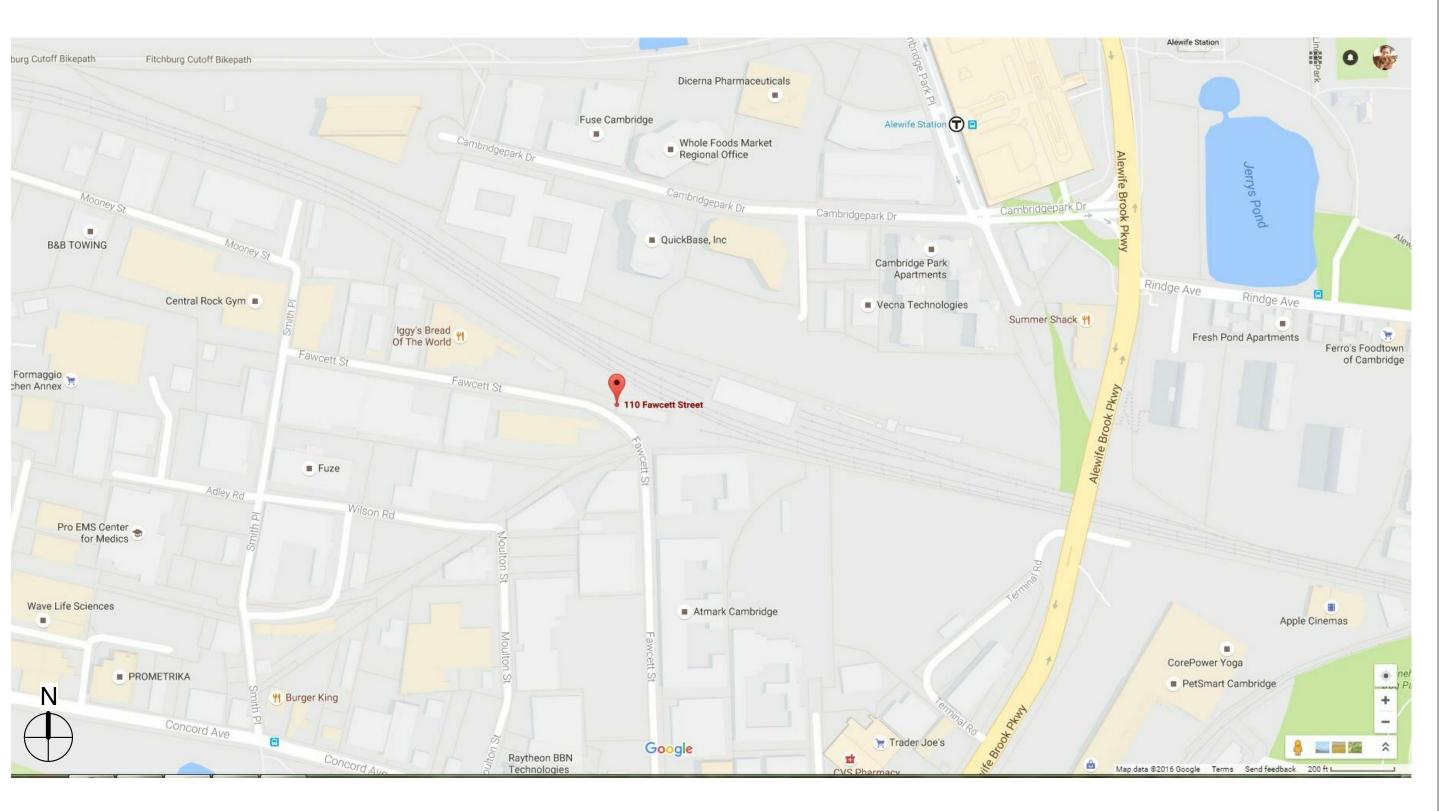
SP-2 Security Layout Floor Plan



October 24th, 2016







OWNER:

Revolutionary Growers, LLC 1 Oak Hill Road Fitchburg, MA 01420

No.	Description	Date
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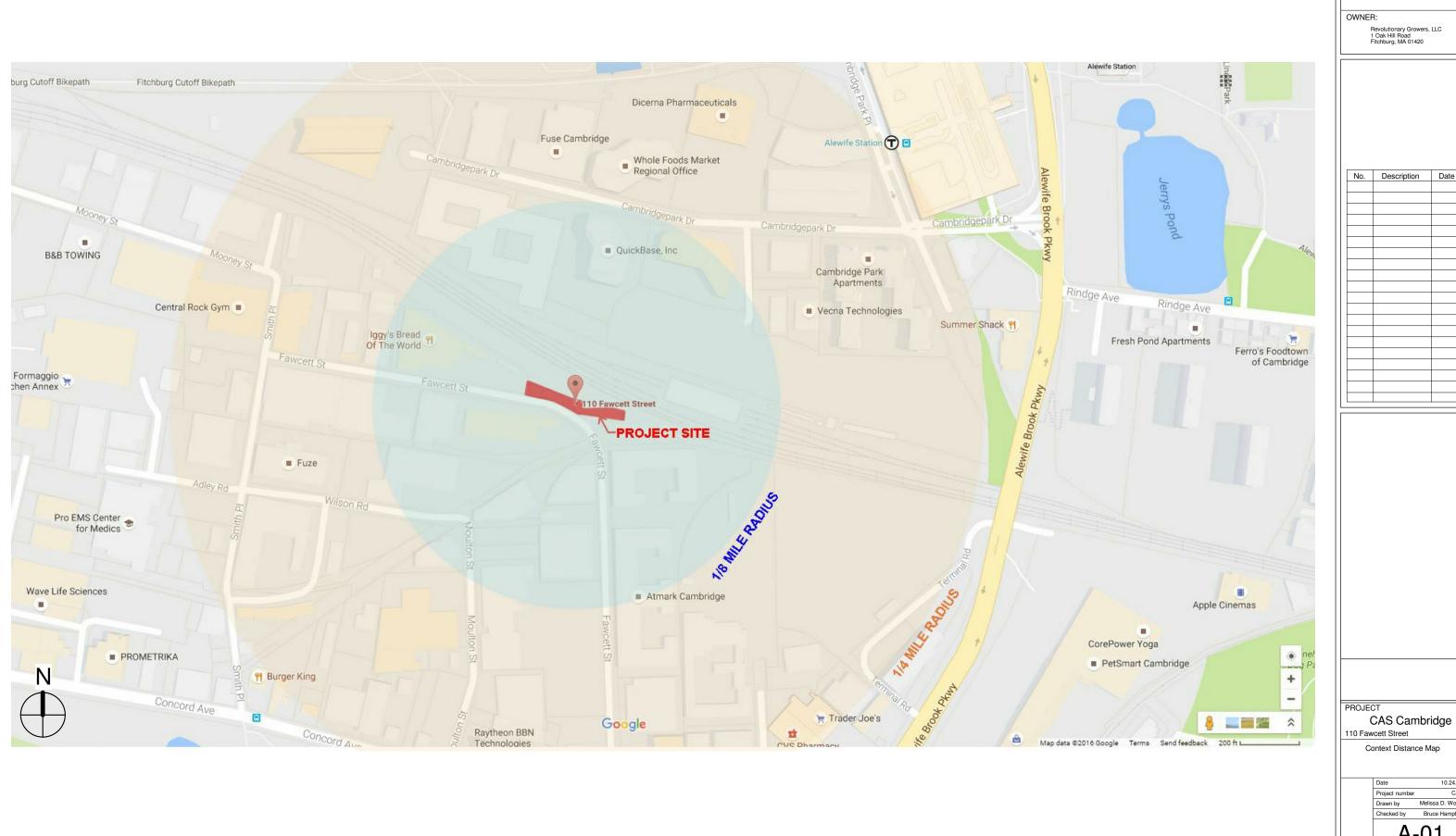
PROJECT

CAS Cambridge
110 Fawcett Street

Context Map

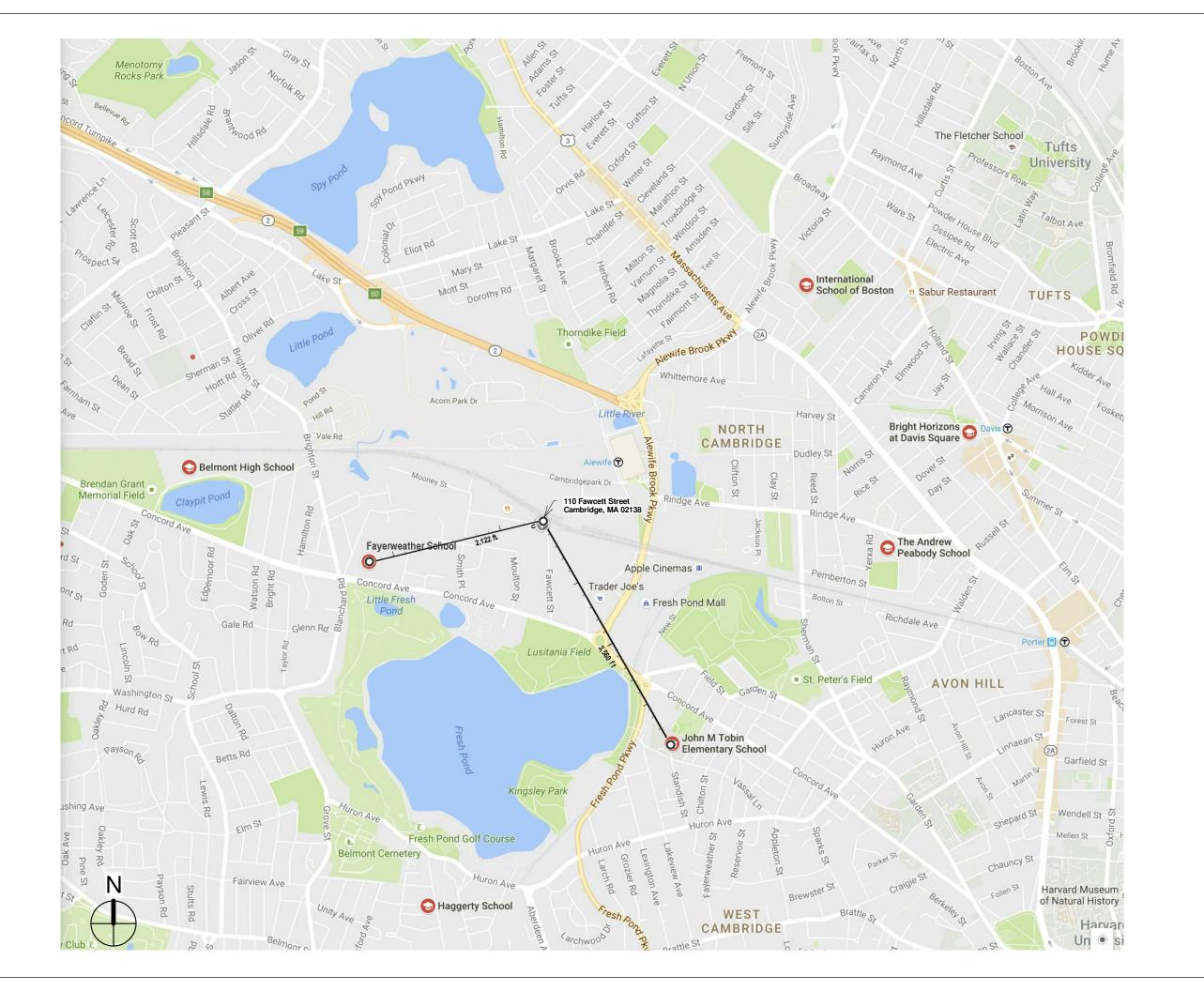
Date 10.24.16
Project number CAS
Drawn by Melissa D. Worth
Checked by Bruce Hampton

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Drawn by Melissa D. Worth Checked by Bruce Hampton A-01



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Revolutionary Growers, LLC 1 Oak Hill Road Fitchburg, MA 01420

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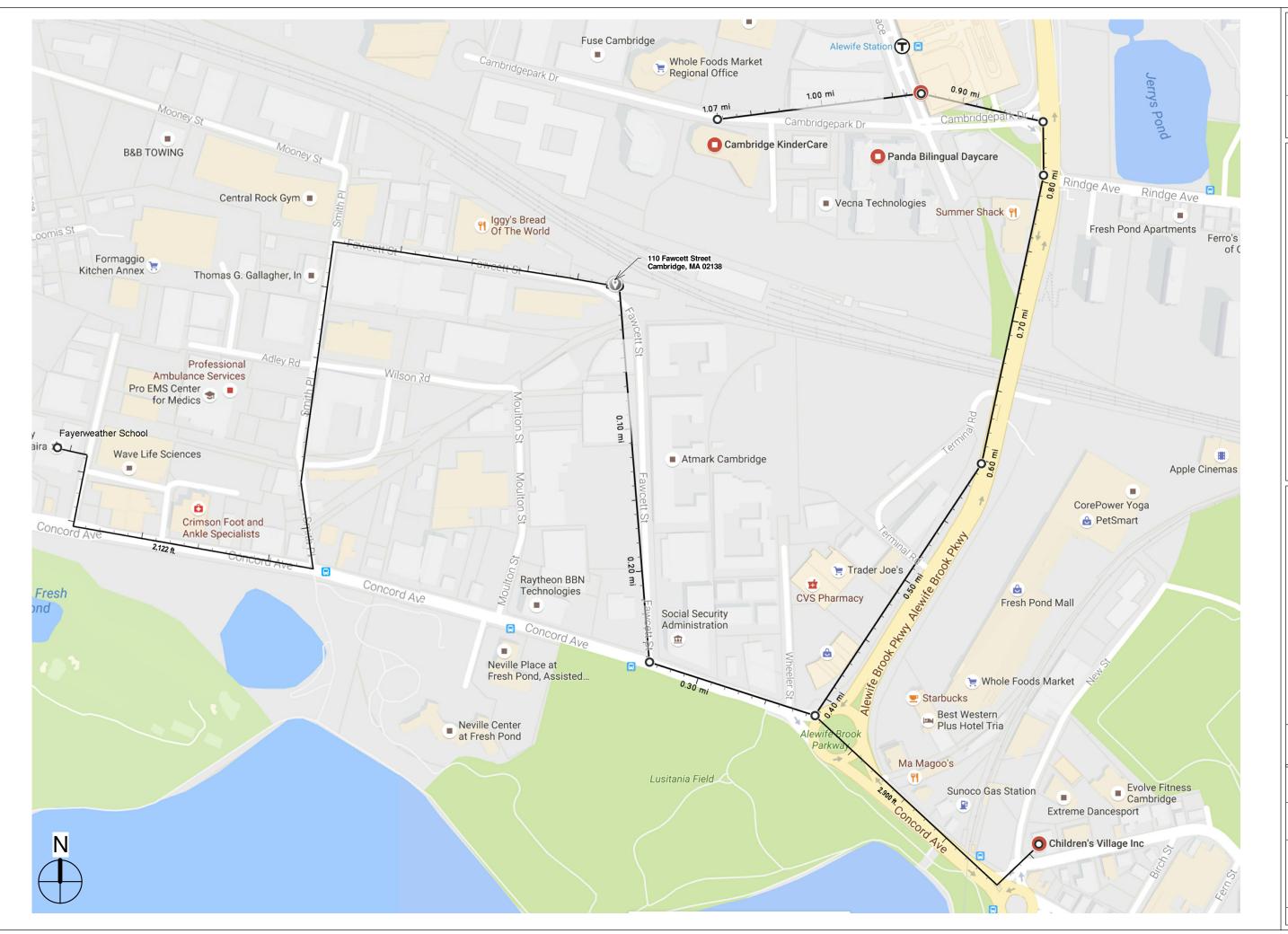
CAS Cambridge

110 Fawcett Street

Proximity to Schools

A-02	
Checked by	Bruce Hampton
Drawn by	Bruce Hampton
Project number	CAS
Date	10.24.16

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Revolutionary Growers, LLC 1 Oak Hill Road Fitchburg, MA 01420

No. Description Date

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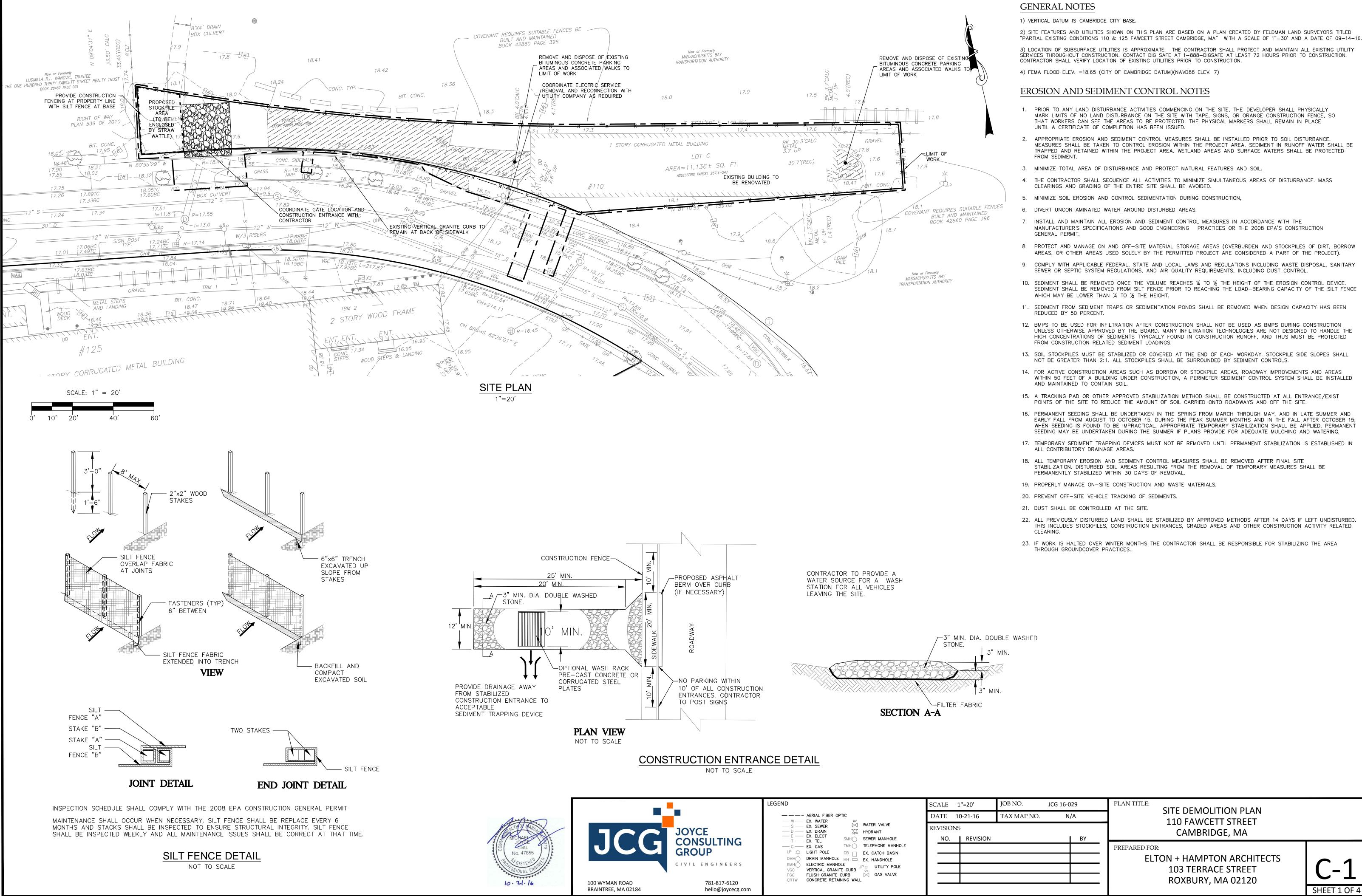
CAS Cambridge

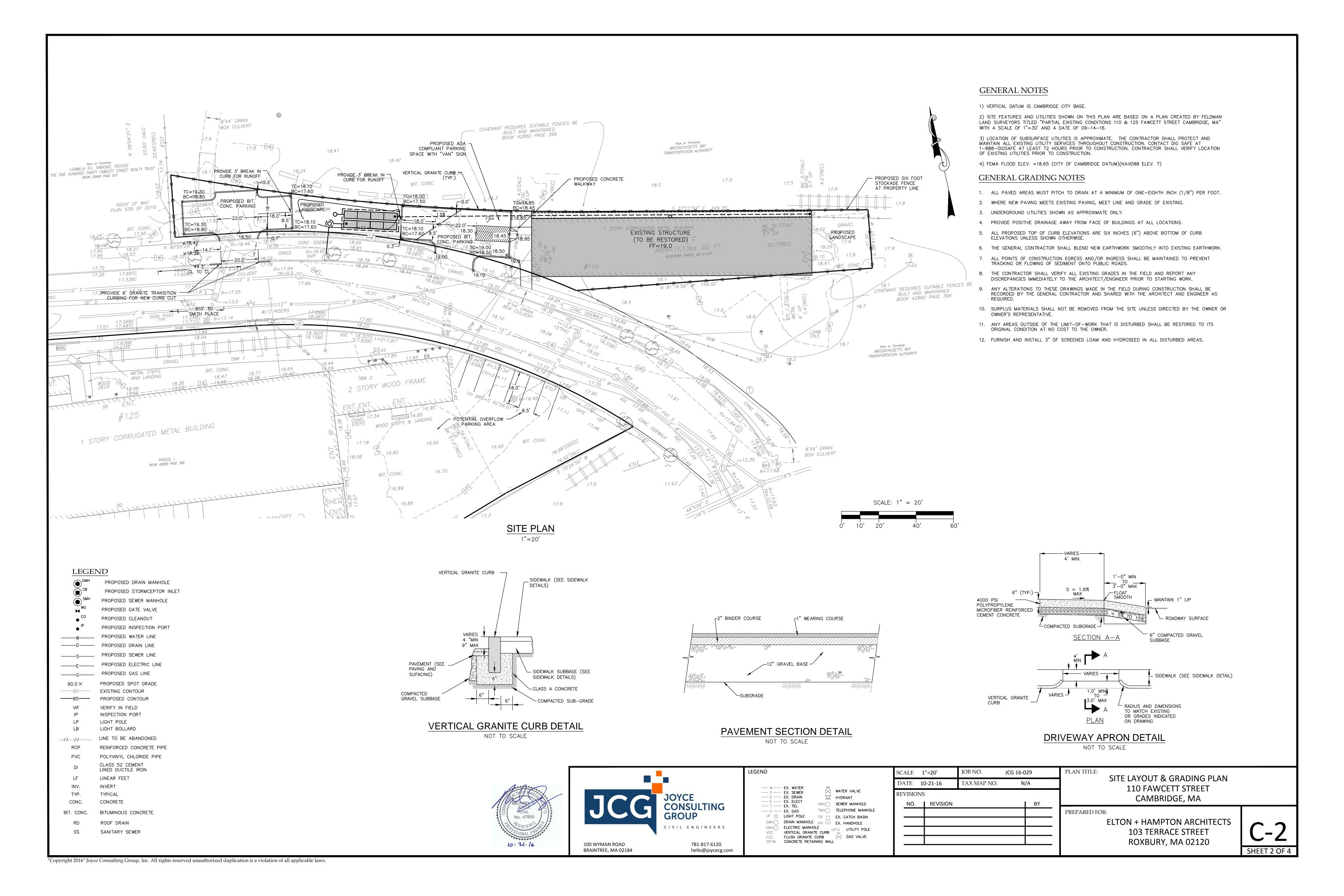
110 Fawcett Street

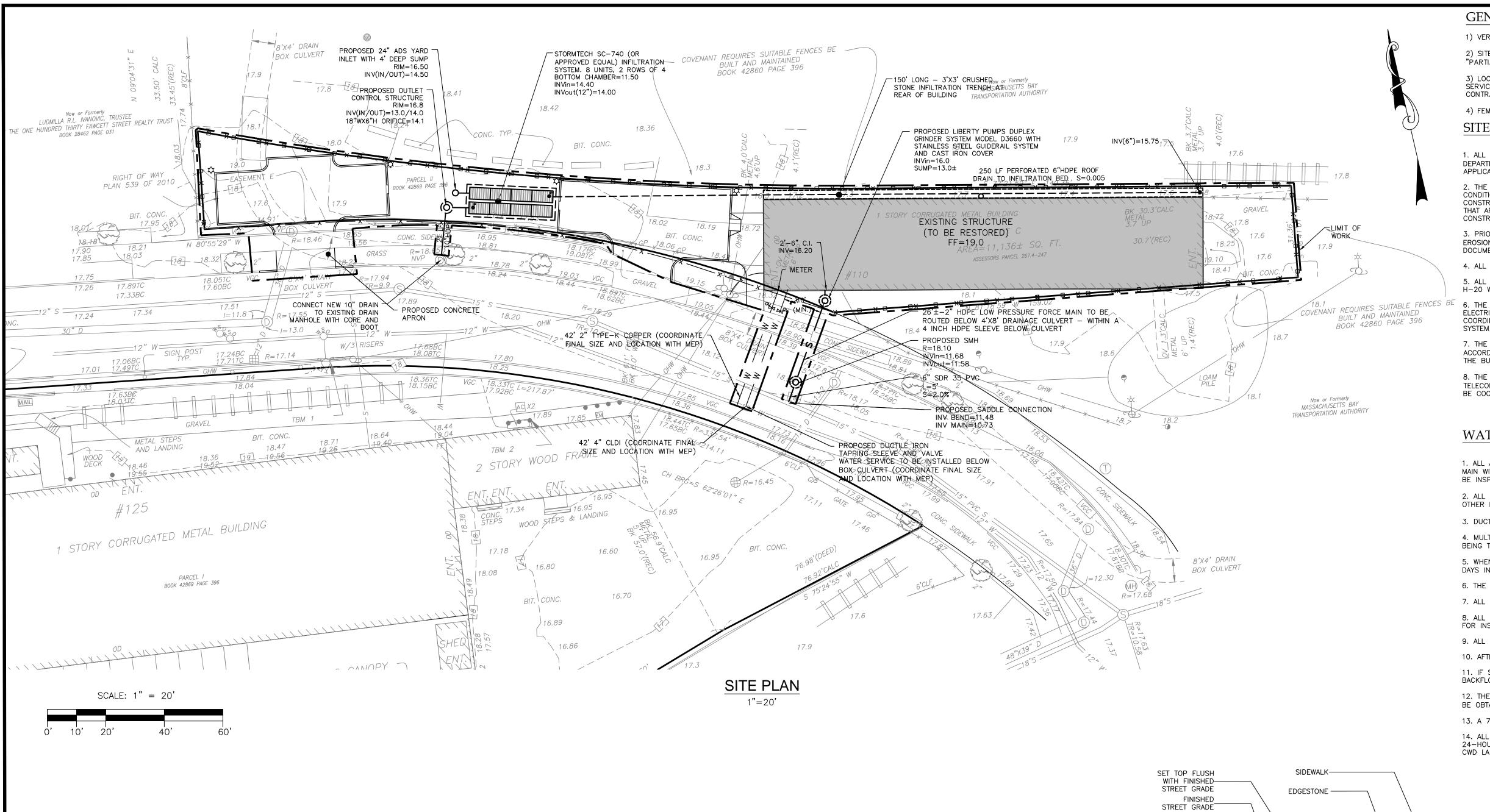
Proximity to Daycare Facilities

Date 10.24.16
Project number CAS
Drawn by Bruce Hampton
Checked by Bruce Hampton

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# GENERAL NOTES

1) VERTICAL DATUM IS CAMBRIDGE CITY BASE.

2) SITE FEATURES AND UTILITIES SHOWN ON THIS PLAN ARE BASED ON A PLAN CREATED BY FELDMAN LAND SURVEYORS TITLED "PARTIAL EXISTING CONDITIONS 110 & 125 FAWCETT STREET CAMBRIDGE, MA" WITH A SCALE OF 1"=30' AND A DATE OF 09-14-16.

3) LOCATION OF SUBSURFACE UTILITIES IS APPROXIMATE. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITY SERVICES THROUGHOUT CONSTRUCTION. CONTACT DIG SAFE AT 1-888-DIGSAFE AT LEAST 72 HOURS PRIOR TO CONSTRUCTION.

CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

4) FEMA FLOOD ELEV. =18.65 (CITY OF CAMBRIDGE DATUM)(NAVD88 ELEV. 7)

# SITE UTILITY NOTES

1. ALL CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF THE MASSACHUSETTS HIGHWAY DEPARTMENT'S 'STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES' AND ALL SUPPLEMENTS, AND SHALL CONFORM TO ALL APPLICABLE REQUIREMENTS AND SPECIFICATIONS OF THE CITY OF CAMBRIDGE.

2. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND CONDITION OF ALL EXISTING UTILITIES THAT MAY BE AFFECTED BY THE PROPOSED WORK AND SHALL CONTACT DIG—SAFE PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE CONDITION AND THE FUNCTIONALITY OF ALL UTILITIES THAT ARE AFFECTED BY THE WORK AND SHALL REPAIR OR REPLACE ANY STRUCTURES OR UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION.

3. PRIOR TO STARTING ANY OTHER WORK ON THE SITE, THE CONTRACTOR SHALL NOTIFY APPROPRIATE AGENCIES AND SHALL INSTALL EROSION CONTROL MEASURES AS SHOWN ON THE DRAWINGS AND AS IDENTIFIED BY ALL LOCAL, STATE, AND/OR FEDERAL APPROVAL DOCUMENTS ASSOCIATED WITH THE PROJECT

4. ALL PIPING SHALL BE LAID ON UNIFORM, CONTINUOUS GRADE OVER COMPACTED OR UNDISTURBED SUBBASE.

5. ALL STRUCTURES AND THEIR APPURTENANCES WITHIN OR ADJACENT TO VEHICLE TRAVEL WAYS SHALL BE CAPABLE OF WITHSTANDING H-20 WHEEL LOADS.

6. THE SITE CONTRACTOR SHALL COORDINATE WITH THE ELECTRICAL CONTRACTOR FOR FURNISHING AND INSTALLING REQUIRED SITE ELECTRICAL ITEMS SUCH AS PULL BOXES, HAND HOLES, CONDUITS, DUCTBANKS, LIGHT POLE BASES, CONCRETE PADS, ETC. AND SHALL COORDINATE LOCATION OF AND PROVIDE EXCAVATION AND BACKFILL FOR THESE ITEMS AS REQUIRED FOR A COMPLETE AND FUNCTIONA

7. THE SITE CONTRACTOR SHALL PROVIDE EXCAVATION AND BACKFILL SERVICES RELATED TO INSTALLATION OF GAS PIPING IN ACCORDANCE WITH THE GAS COMPANY'S REQUIREMENTS. FINAL LOCATION OF ANY NEW GAS SERVICES SHALL BE COORDINATED WITH THE BUILDING PLUMBING ENGINEER AND THE GAS COMPANY.

8. THE LOCATION, SIZE, DEPTH AND SPECIFICATIONS FOR CONSTRUCTION OF PROPOSED PRIVATE UTILITY SERVICES (GAS, TELECOMMUNICATIONS, ELECTRIC) SHALL BE AS REQUIRED BY THE CONTROLLING COMPANY. FINAL LOCATIONS AND DESIGN LOADS SHALL BE COORDINATED WITH THE ENGINEER PRIOR TO INSTALLATION.

### WATER SYSTEM NOTES

1. ALL ABANDONED WATER LINES (EX. TEMPORARY, DOMESTIC, FIRE, IRRIGATION, NON—ACTIVE, ETC) MUST BE CUT AND CAPPED AT THE MAIN WITH RESTRAINED JOINTS OR CLIPPED AND THEN INSPECTED BY THE WATER DEPARTMENT. TRENCH AND SURFACE CONDITION MUST BE INSPECTED BY THE CITY OF CAMBRIDGE WATER DEPARTMENT (CWD).

2. ALL MATERIALS FOR WATER WORK SHALL MEET AMERICAN WATER WORKS ASSOCIATION (AWWA) STANDARDS AS APPLICABLE. ALL OTHER MATERIALS MUST MEET SPECIFICATIONS OF THE DPW AND CWD.

3. DUCTILE IRON PIPE IS TO BE CLASS 52 OR GREATER WITH 18" CEMENT LINING. COPPER TUBING SHALL BE TYPE K ONLY.

4. MULTIPLE TAPS MUST BE A MINIMUM OF THREE (3) FEET APART AND THREE (3) FEET FROM ANY JOINT OR BELL ON THE MAIN BEING TAPPED.

5. WHEN WORK IS COMPLETED, AS-BUILT DRAWING MUST BE SUBMITTED TO THE CWD (PREFERABLE IN ELECTRONIC FORMAT) WITHIN 60 DAYS IN TRIPLICATE PRIOR TO WATER TURN-ON.

6. THE CWD MUST BE NOTIFIED WITHIN 24 HOURS BEFORE WATER WORK IS TO START.

7. ALL SHUT-OFFS/TURN-ONS TO BE PERFORMED BY CWD PERSONNEL. TO ARRANGE FOR THIS SERVICE CALL (617) 349-4763.

8. ALL WATER WORK MUST BE INSPECTED PRIOR TO TRENCH BACKFILL. PLEASE CALL TO MAKE ARRANGEMENTS 24 HOURS IN ADVANCE

9. ALL COMPANIES PERFORMING WATER CONSTRUCTION MUST BE BONDED WITH THE DPW.

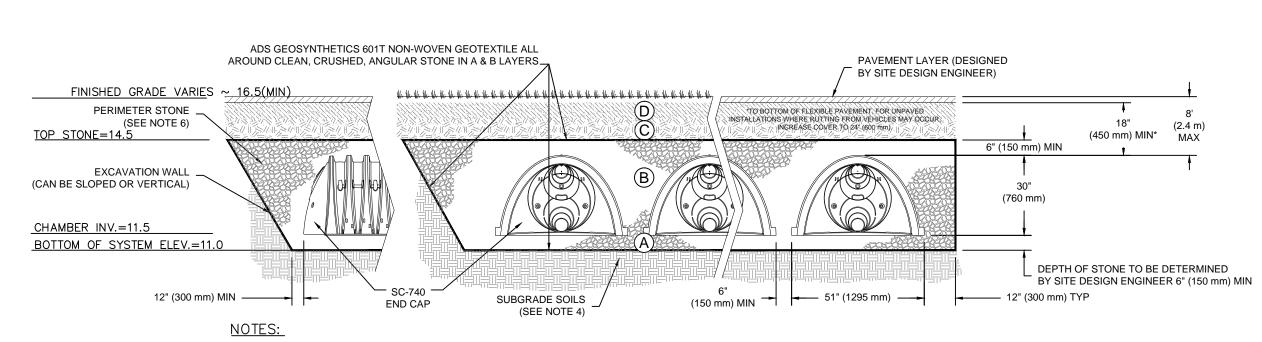
10. AFTER THE CWD PERMIT IS APPROVED A STREET OPENING PERMIT MUST BE OBTAINED FROM DPW.

11. IF SERVICE IS TO BE USED FOR CONSTRUCTION PURPOSES, BACK FLOW DEVICES MAY BE REQUIRED. FOR MORE INFORMATION ON BACKFLOW PREVENTION PLEASE CONTACT THE CWD CROSS CONNECTION DEPARTMENT.

12. THE CAMBRIDGE FIRE DEPARTMENT (CFD) APPROVAL IS REQUIRED FOR FIRE LINE INSTALLATION. A BACKFLOW DEVICE PERMIT MUST BE OBTAINED FORM THE ENGINEERING DIVISION BY CALLING (617) 349-4782.

13. A 72 HOUR NOTICE IS REQUIRED BY THE CWD TO MARK OUT THE WATER UTILITIES BEFORE CONSTRUCTION CAN BEGIN.

14. ALL NEW WATER MAINS MUST BE PRESSURE TESTED AND CHLORINATED BEFORE ACTIVATION IN THE DISTRIBUTION SYSTEM. A 24—HOUR NOTICE IS REQUIRED BY THE CWD FOR PRESSURE TEST AND SAMPLING AFTER CHLORINATION. ANY QUESTIONS, CONTACT THE CWD LABORATORY SUPERVISOR TO ARRANGE SAMPLE COLLECTION.



1. SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".

2. SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".

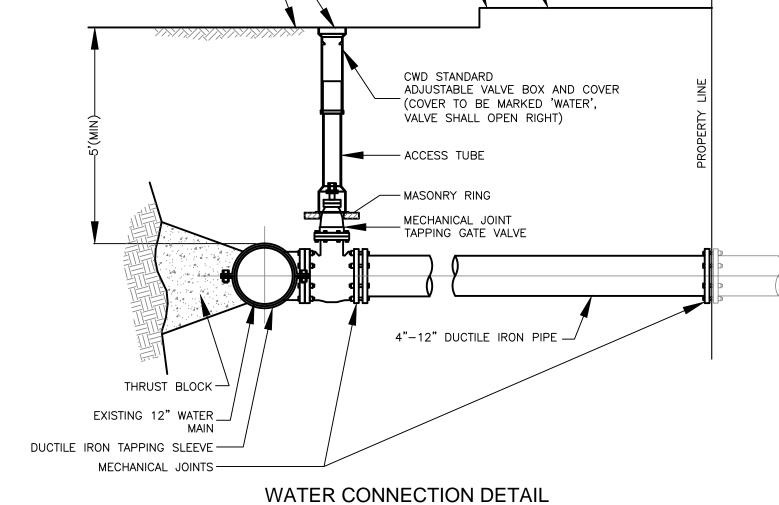
3. "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.

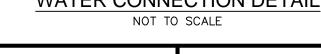
4. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.

5. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.

6. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.

# UNDERGROUND INFILTRATION DETAIL







— W —		₩V	WATER VALVE
— D —	EX. DRAIN	X	HYDRANT
— E —		SMH	SEWER MANHOLE
— G —		TMH	TELEPHONE MANHOL
LP 🌣	LIGHT POLE	СВ 🖂	EX. CATCH BASIN
DMH	DRAIN MANHOLE	HH $\square$	EX. HANDHOLE
EMH	ELECTRIC MANHOI VERTICAL GRANITI	[]	IPO UTILITY POLE
VGC FGC	FLUSH GRANITE		⊠ GAS VALVE
CRTW	CONCRETE RETAIN	NING WALL	_

SCALE :	1"=20'	JOB NO.	JCG 16-0	)29	PLAN TITLE:
DATE 1	0-21-16	TAX MAP NO.	N,	/A	
REVISIONS	5				7
NO.	REVISION			ВҮ	
					PREPARED FO
			•		

SITE UTILITY PLAN
110 FAWCETT STREET
CAMBRIDGE, MA

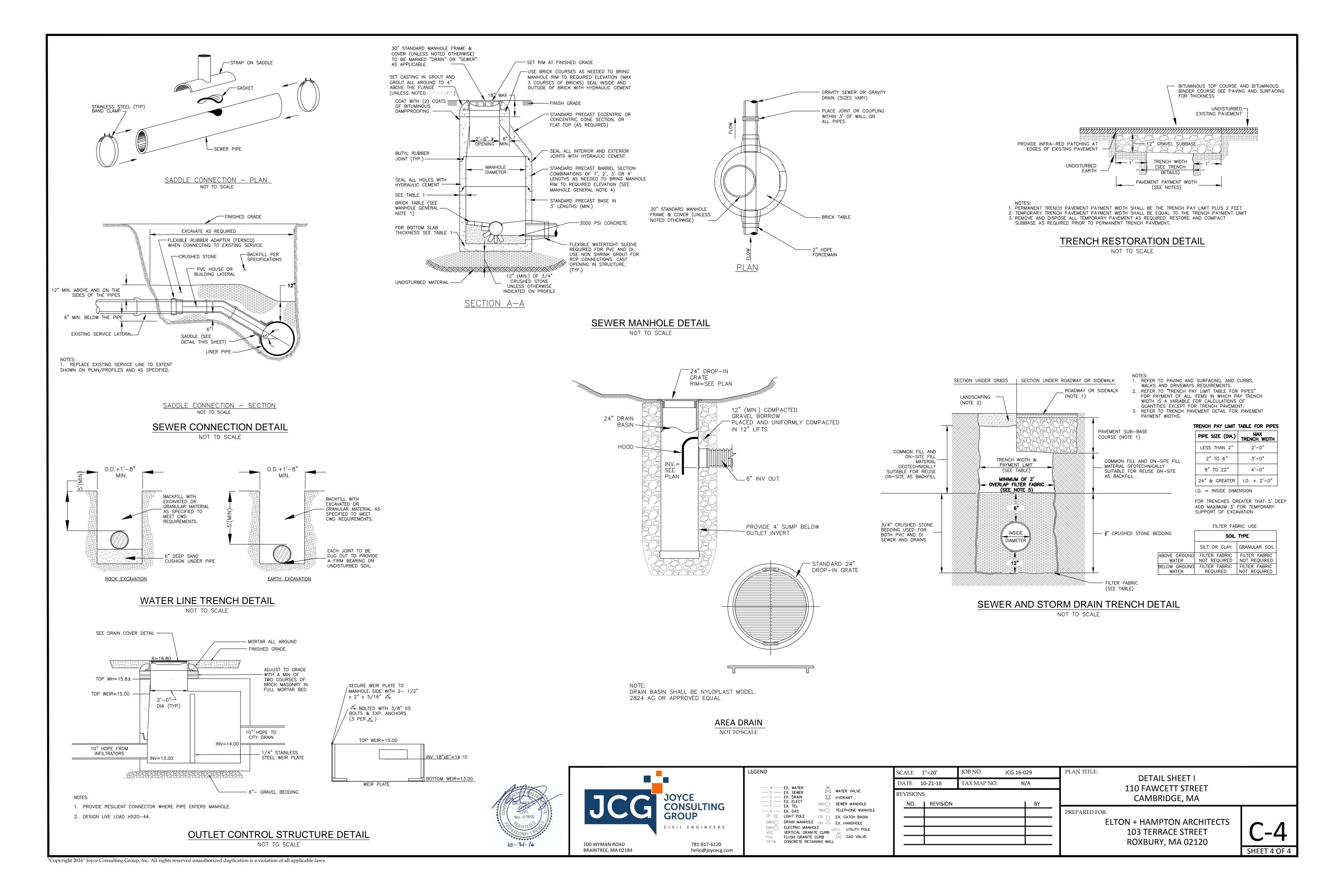
PREPARED FOR:

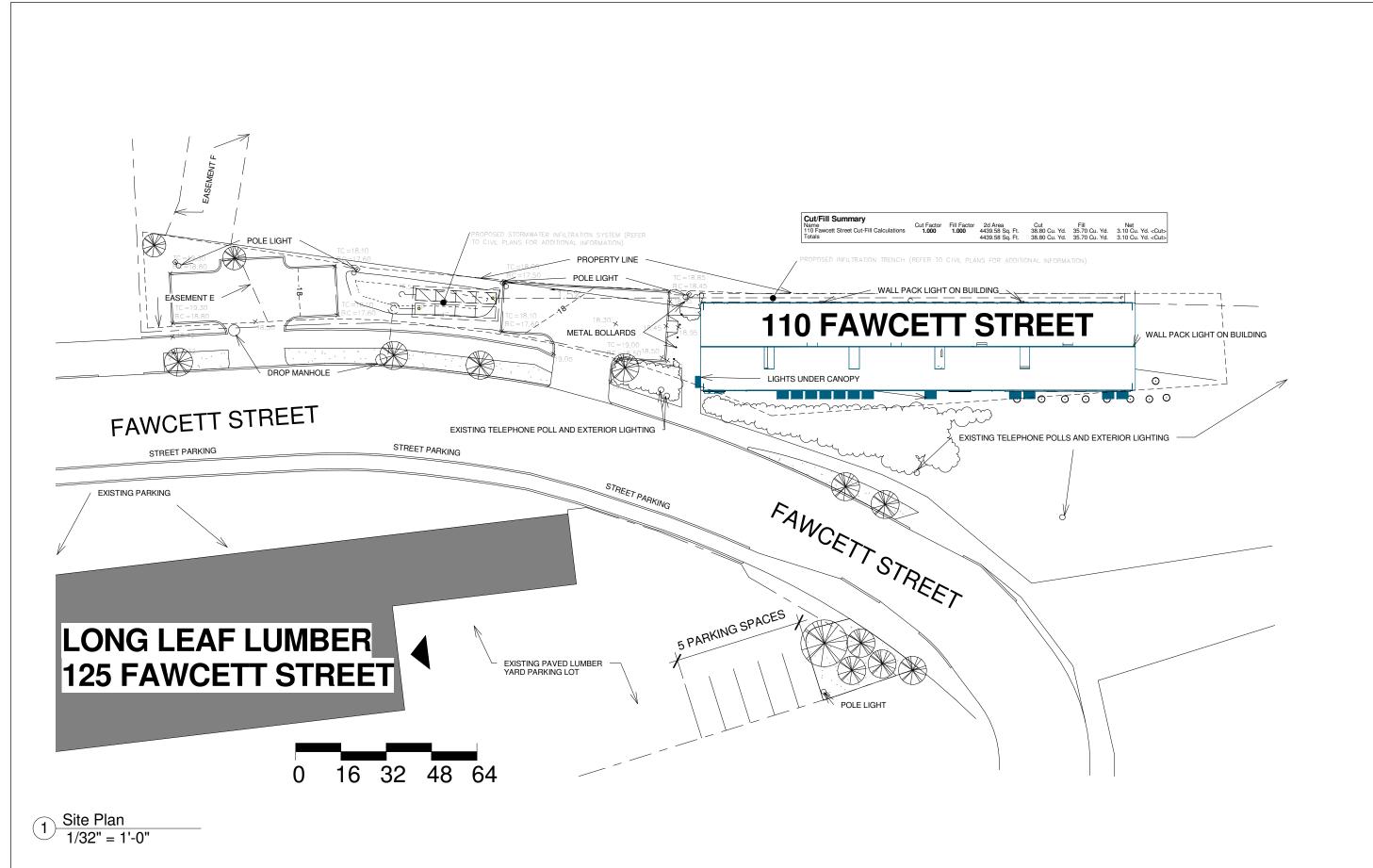
ELTON + HAMPTON ARCHITECTS

103 TERRACE STREET

ROXBURY, MA 02120

**C-3**SHEET 3 OF 4



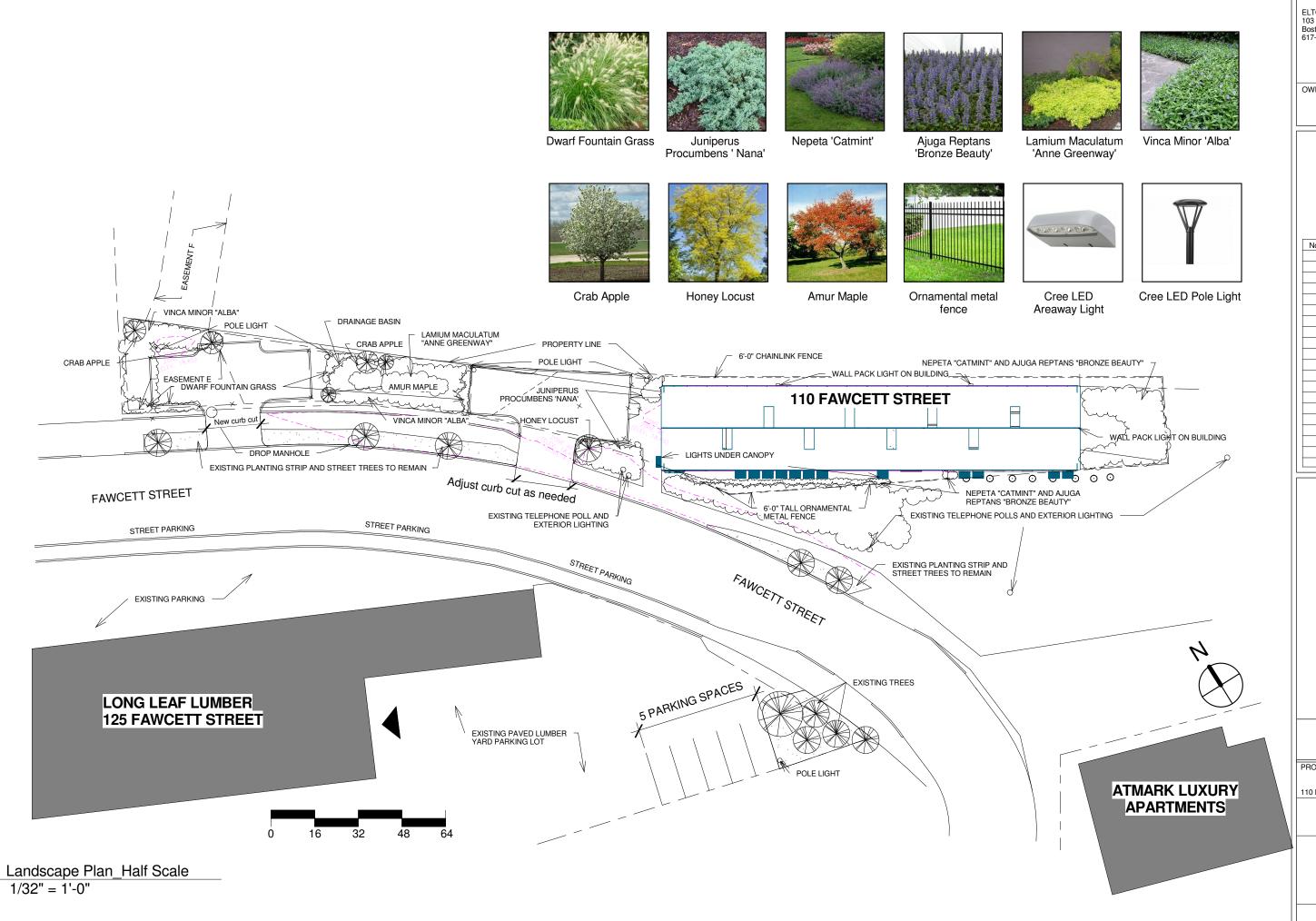


1 Oak Hill Road Fitchburg, MA 01420

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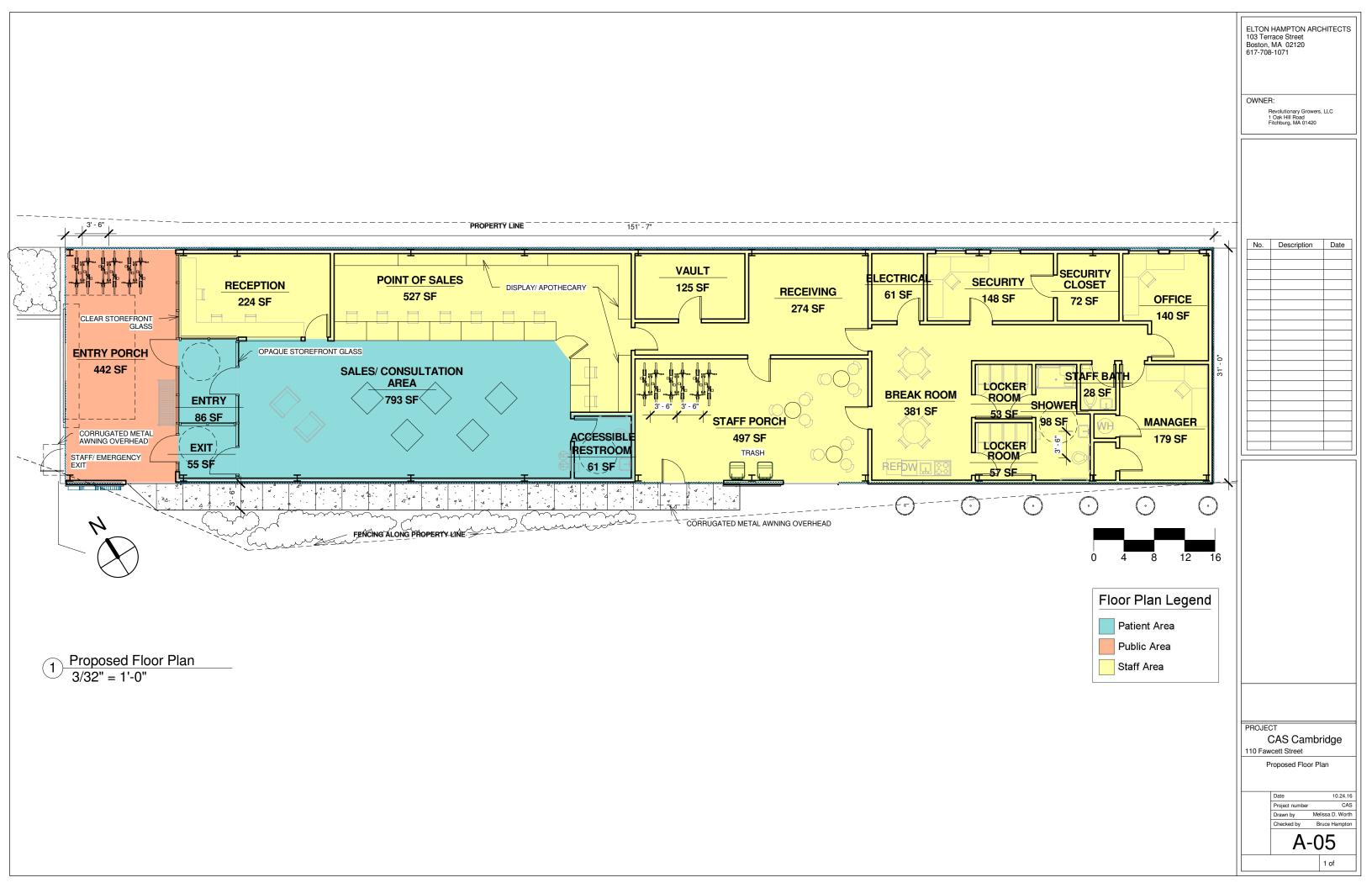
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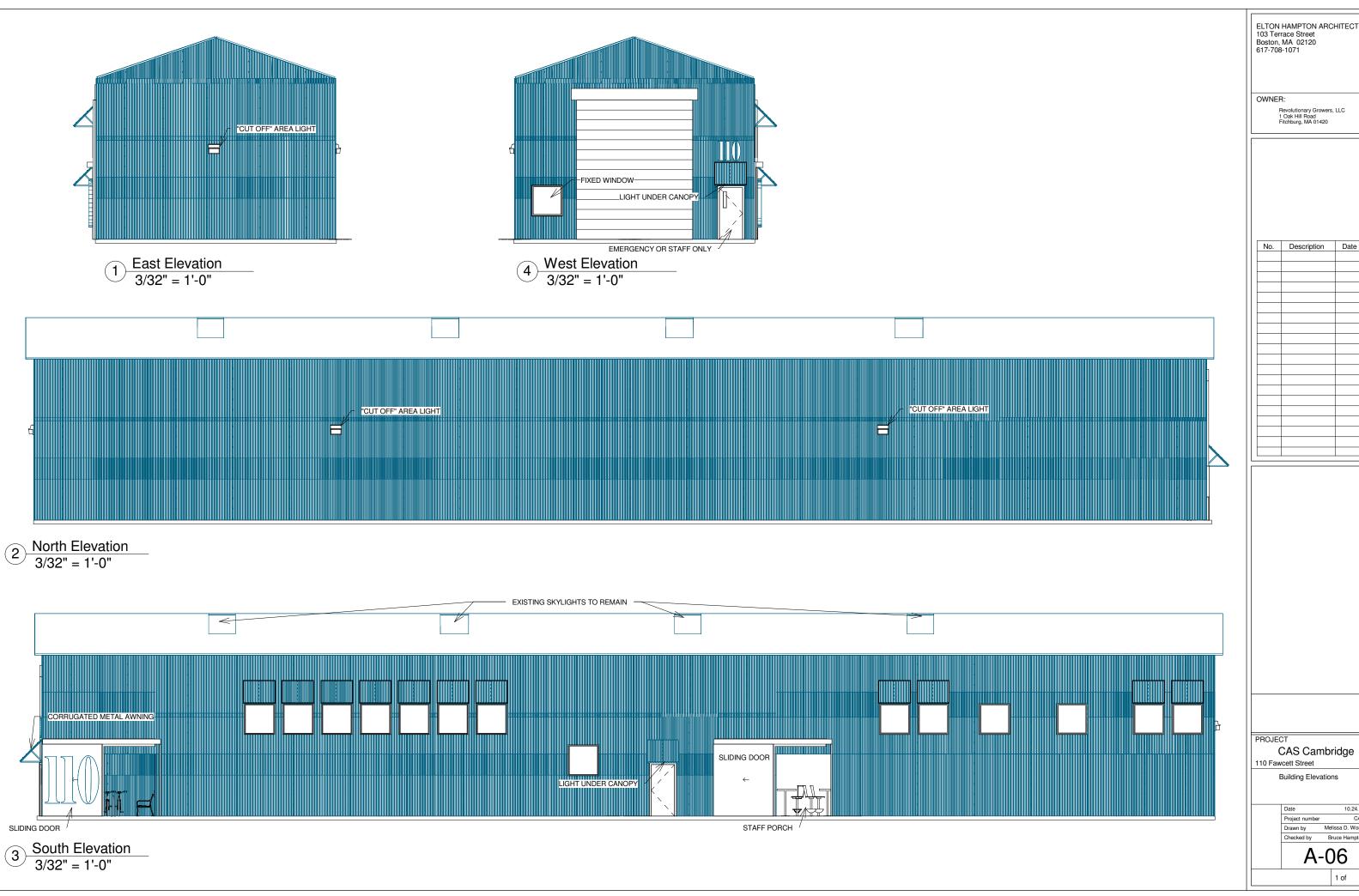
CAS Cambridge

110 Fawcett Street

Landscape Plan

10



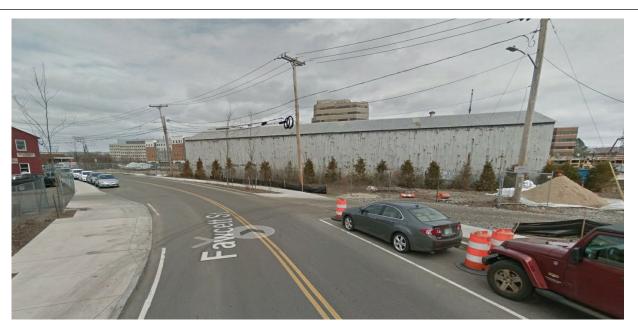


No. Description Date

**Building Elevations** 

A-	-06
Checked by	Bruce Hampton
Drawn by	Melissa D. Worth
Project number	CAS
Date	10.24.16

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View from South



South Facade



Existing Building from South East

OWNER:

Revolutionary Growers, LLC 1 Oak Hill Road Fitchburg, MA 01420

No.	Description	Date

PROJECT

CAS Cambridge

Existing Site Photographs

A-07



Proposed RMD Doors Open for Business

OWNER:

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No.	Description	Date

PROJECT

CAS Cambridge
110 Fawcett Street

Exterior Rendering

Date	10.24.16
Project number	CAS
Drawn by	Melissa D. Worth
Checked by	Bruce Hampton

A-08

