FRANK J. MANNING APARTMENTS 240 GREEN STREET, CAMBRIDGE, MA 02139 SPECIAL PERMIT APPLICATION SET ISSUED October 14, 2015

DRAWING LIST

A001 COVER SHEET

CIVIL :

ARCHITECTURAL :

C001	SITE SURVEY - Complete City Parcel	A002 CODE REVIEW SUMMARY	
C002	SITE SURVEY - Manning Parcel		
C100	EXISTING CONDITIONS PLAN OF LAND	D100 BASEMENT DEMOLITION PLAN	
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201	CONSTRUCTION DETAILS	D200 SOUTH & EAST DEMOLITION ELEVATIONS	
		D201 NORTH & WEST DEMOLITION ELEVATIONS	
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		A309 PARTIAL WEST ELEVATION J, PLAN & WALL SECTIONS	
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		A311 WALL SECTIONS	
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		A351 WALL SECTIONS @ EAST ARCADE	
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		A414 PUBLIC ENTRANCE, COMMUNITY SPACE, & OFFICE SUITE ENLARG	
		A417 2ND FLOOR COMMUNITY SPACE ENLARGED PLAN & ELEVATIONS	

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IONS SUITE ENLARGED PLAN

Harvard Museu of Natural History Harvard University 0 0

LOCATION MAP



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2) BACK BAY

John B. Hynes

ARCHITECT

bhta Bargmann Hendrie + Archetype, Inc 300 A Street Boston, MA 02210 617 350-0450 Tel 617 350-0215 Fax www.bhplus.com

PROJECT NAME

Frank J Manning Apartments 237 Franklin Street, Cambridge MA 02139

CLIENT

Cambridge Housing Authority

362 Green Street Cambridge, MA 02139 617-864-3020 Tel 616-868-5372 Fax www.cambridge-housing.org

PROJECT TEAM

STRUCTURAL CONSULTANT DM Berg Consultants, PC 100 Crescent Road, Suite 1A Needham, MA 02494 718-444-5156 Tel 718-444-5157 Fax www.dmberg.com

MECHANICAL, PLUMBING, & FIRE PROTECTION CONSULTANT VAV International, Inc. 400 W. Cummings Park, Suite 4700 Woburn, MA 01801 781-935-7228 Tel 781-935-1822 Fax www.vavint.com

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LANDSCAPE ARCHITECT Hammer+Walsh Design Inc. 300 A Street Boston, MA 02210-1620 617-439-0125 Tel 617-439-0126 Fax

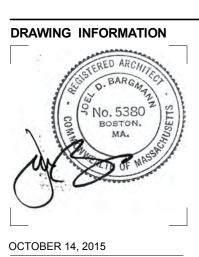
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ISSUED FOR:

SPECIAL PERMIT **APPLICATION**

DRAWING TITLE

Cover Sheet Volume 1



DATE OF ISSUE SPECIAL PERMIT APPLICATION DESCRIPTION 3/16" = 1'-0' SCALE

DRAWN BY Manning Apts.rv FILE NAME PROJECT #

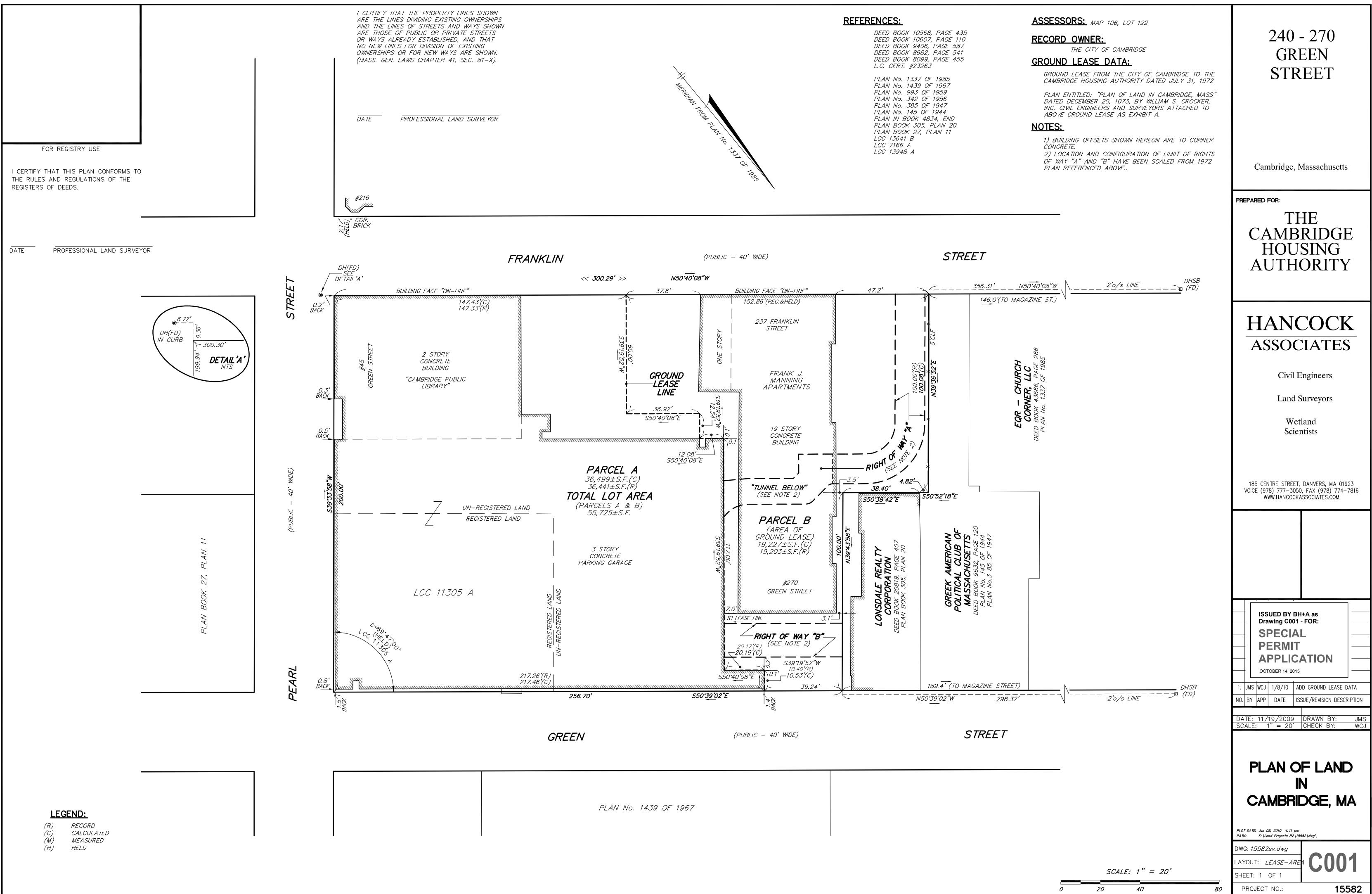
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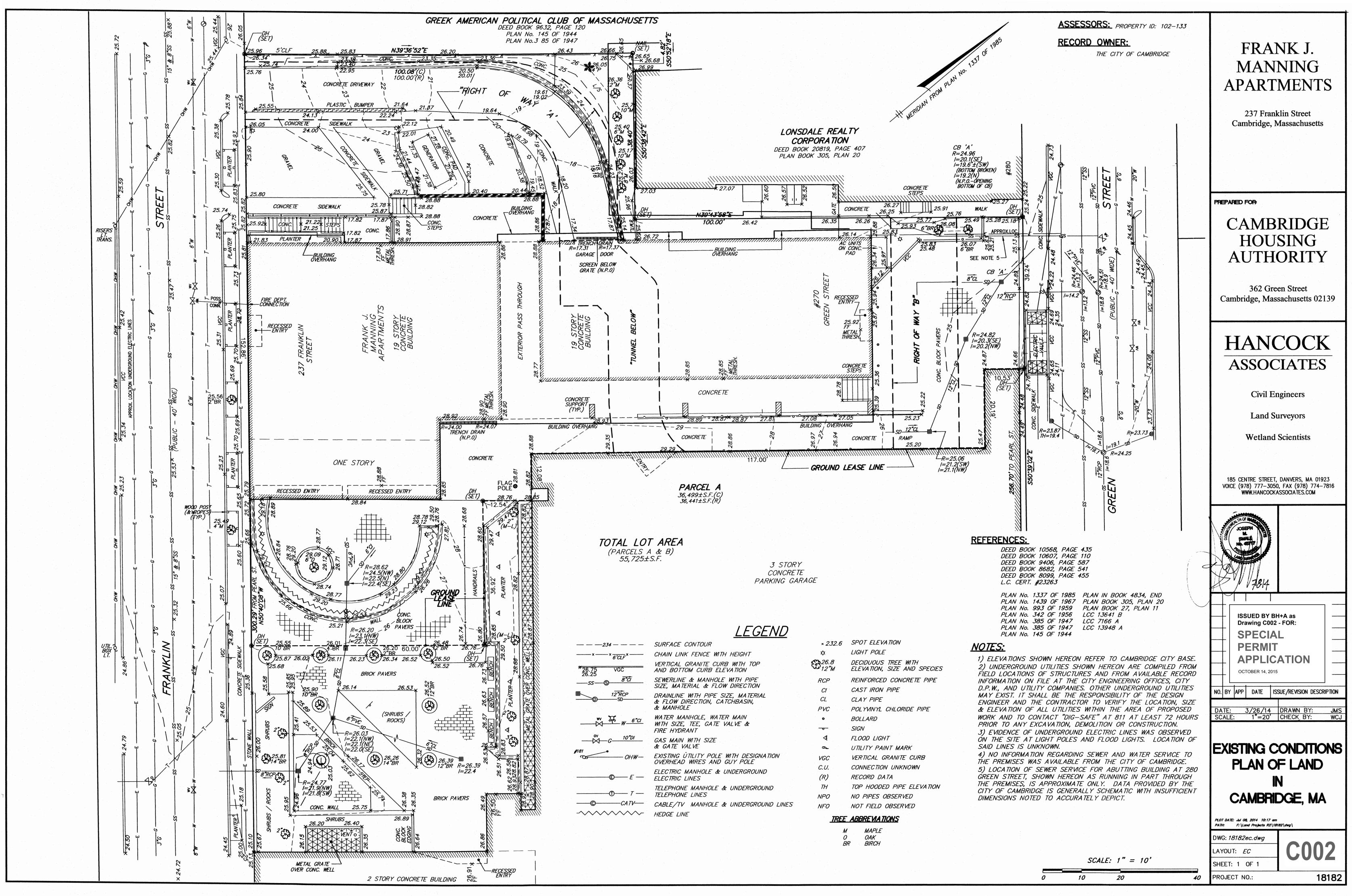
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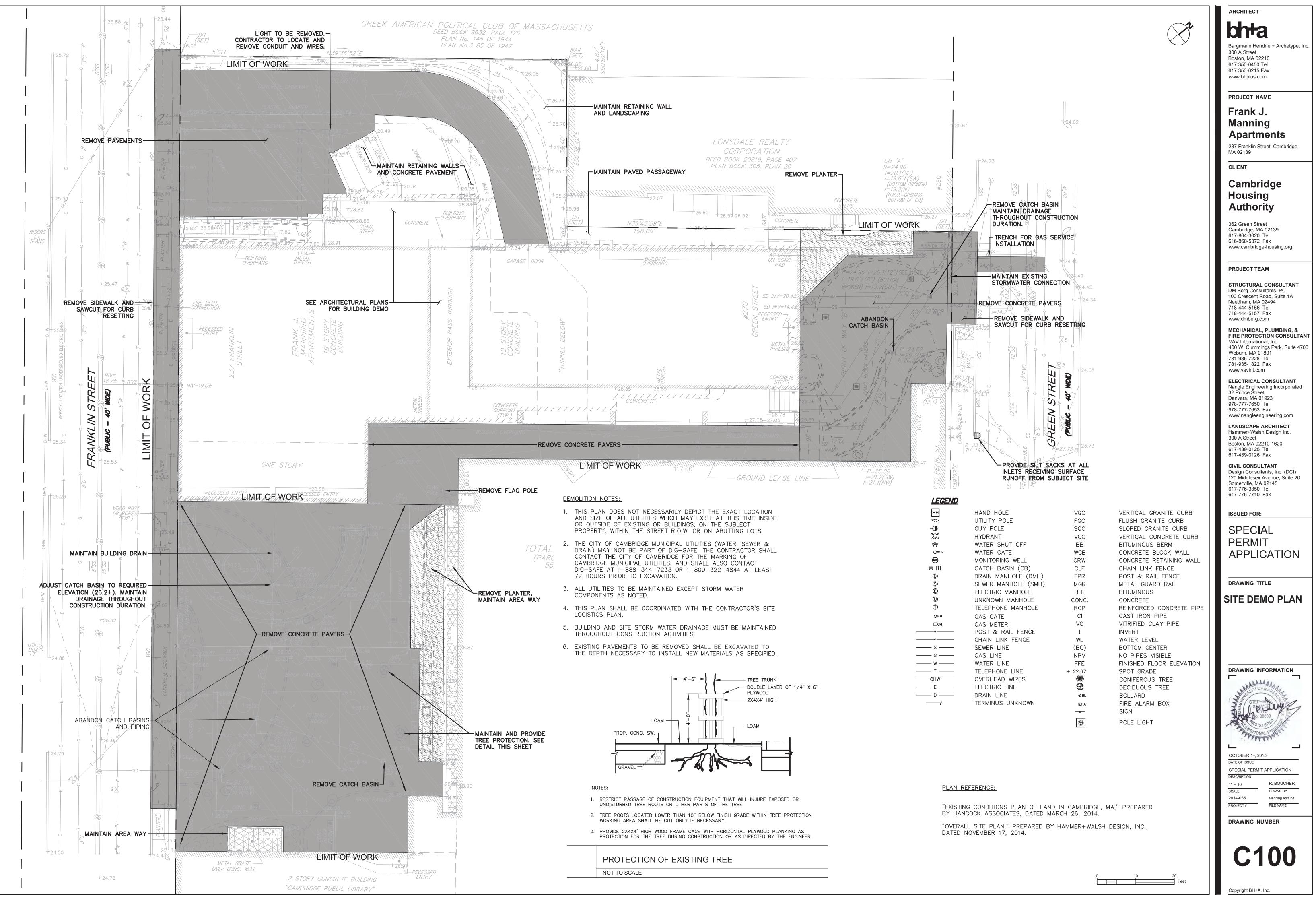
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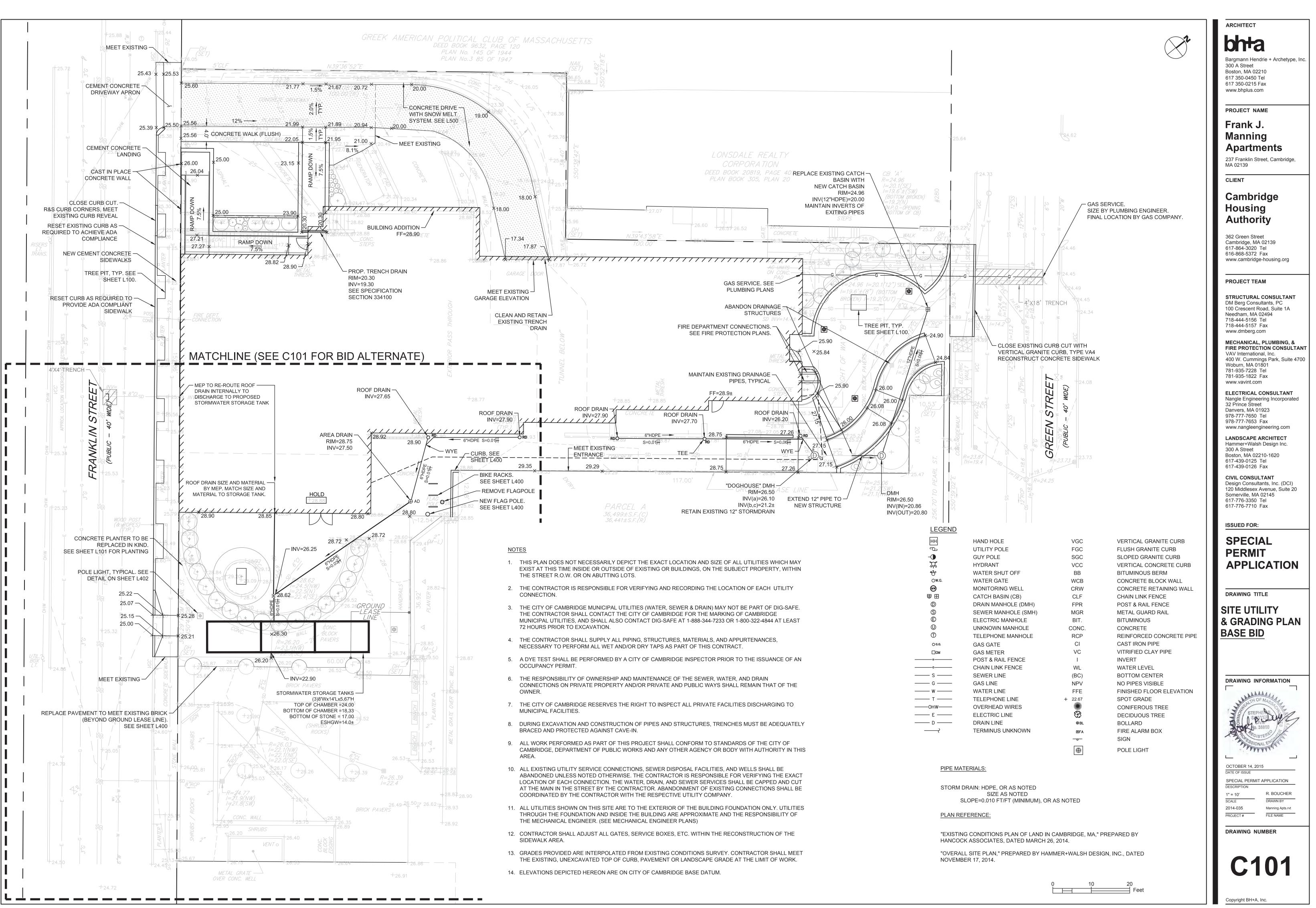


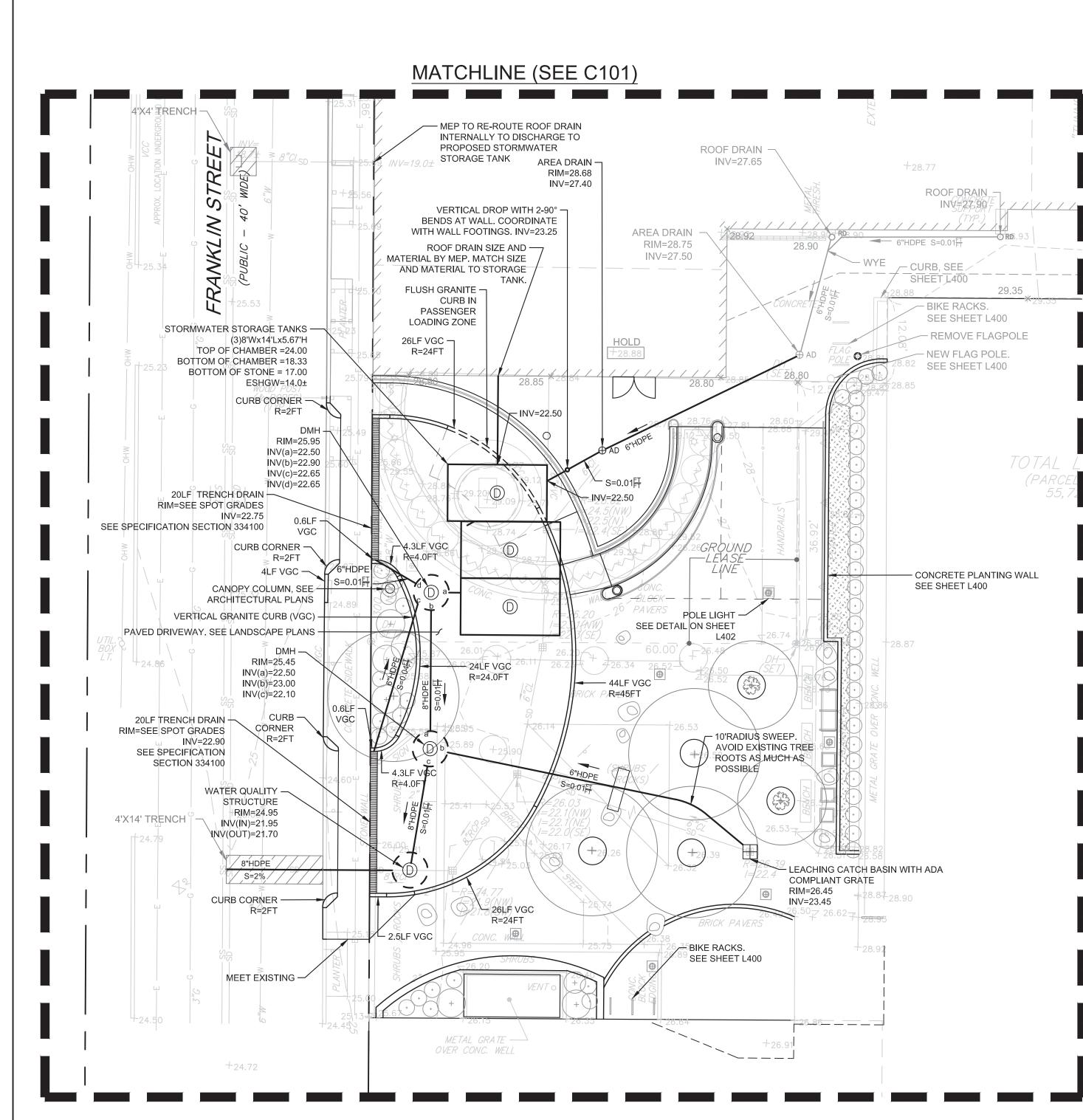


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GRADING - LAYOUT & MATERIALS

PIPE MATERIALS:

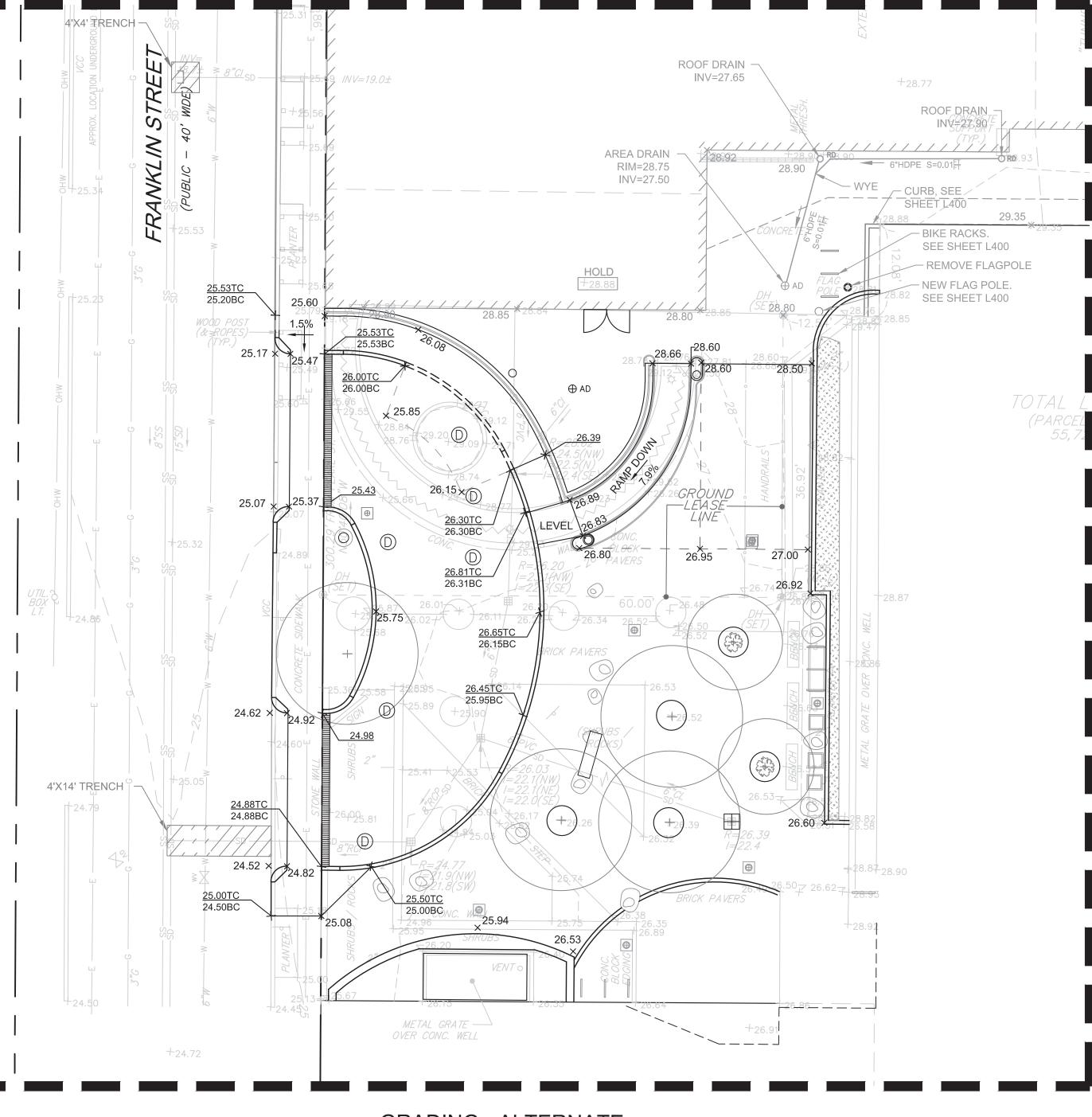
STORM DRAIN: HDPE, OR AS NOTED SIZE AS NOTED SLOPE=0.010 FT/FT (MINIMUM), OR AS NOTED

PLAN REFERENCE:

"EXISTING CONDITIONS PLAN OF LAND IN CAMBRIDGE, MA," PREPARED BY HANCOCK ASSOCIATES, DATED MARCH 26, 2014.

"OVERALL SITE PLAN," PREPARED BY HAMMER+WALSH DESIGN, INC., DATED NOVEMBER 17, 2014.

MATCHLINE (SEE C101)



GRADING - ALTERNATE

0 10 20

bhta Bargmann Hendrie + Archetype, Inc.

ARCHITECT

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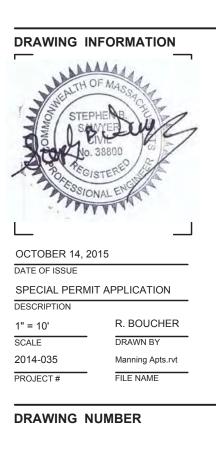
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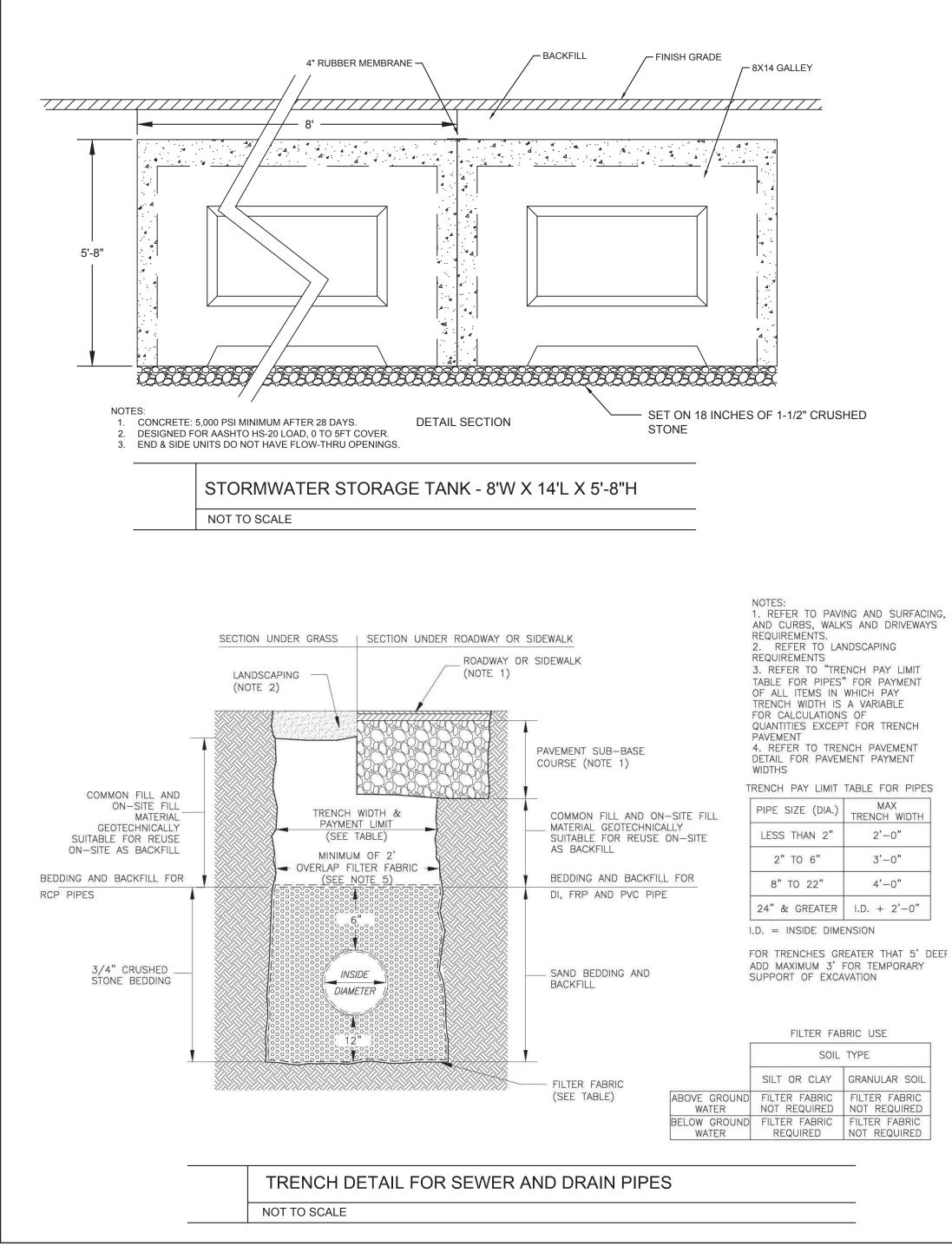
SITE UTILITY & GRADING PLAN **ALTERNATE BID**

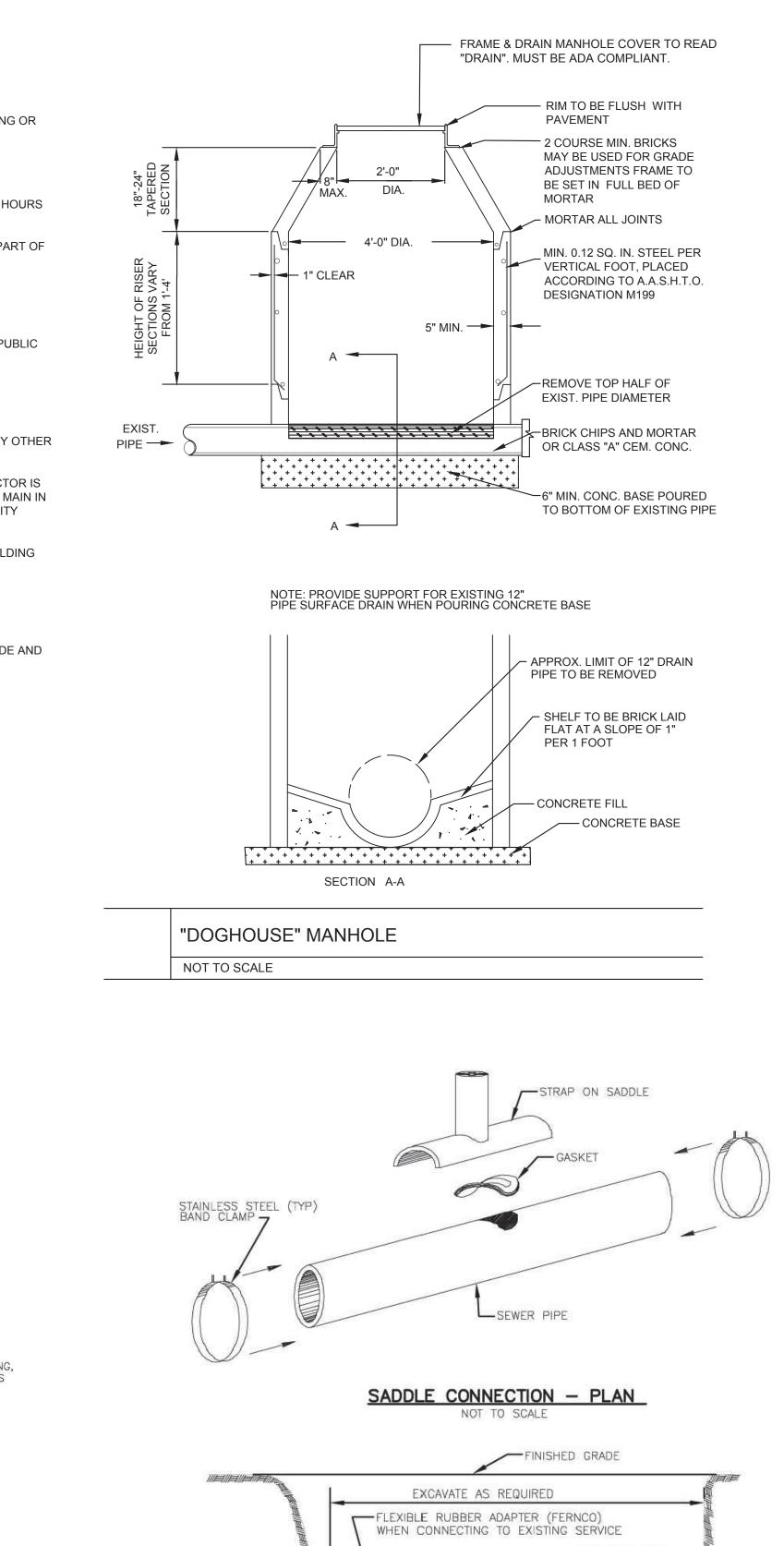


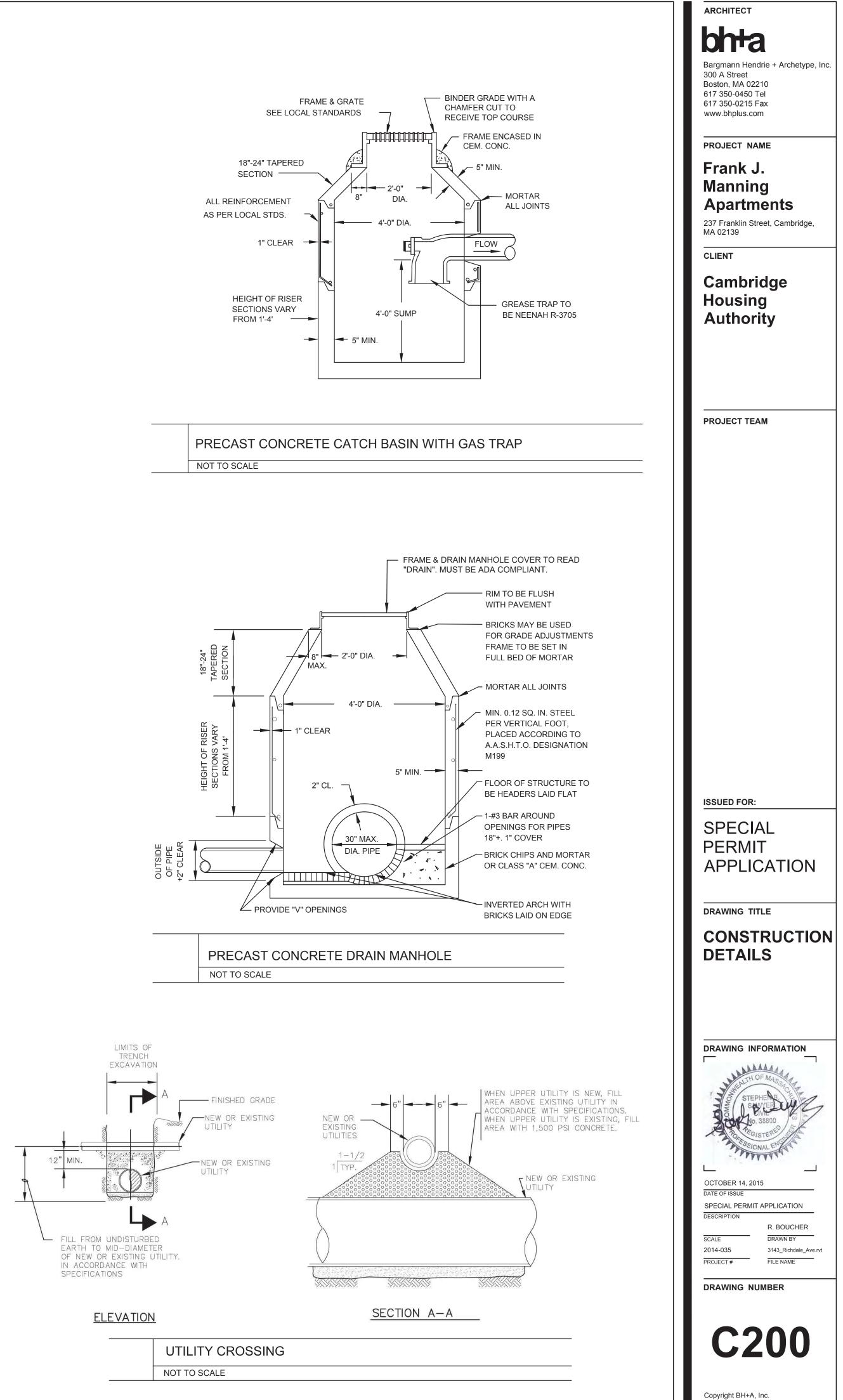


GENERAL NOTES:

- 1. THIS PLAN DOES NOT NECESSARILY DEPICT THE EXACT LOCATION AND SIZE OF ALL UTILITIES WHICH MAY EXIST AT THIS TIME INSIDE OR OUTSIDE OF EXISTING OR PROPOSED BUILDINGS, ON THE SUBJECT PROPERTY, WITHIN THE STREET R.O.W. OR ON ABUTTING LOTS.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING AND RECORDING THE LOCATION OF EACH PROPOSED UTILITY CONNECTION.
- 3. THE CITY OF CAMBRIDGE MUNICIPAL UTILITIES (WATER, SEWER & DRAIN) MAY NOT BE PART OF DIG-SAFE. THE CONTRACTOR SHALL CONTACT THE CITY OF CAMBRIDGE FOR THE MARKING OF CAMBRIDGE MUNICIPAL UTILITIES, AND SHALL ALSO CONTACT DIG-SAFE AT 1-888-344-7233 OR 1-800-322-4844 AT LEAST 72 HOURS PRIOR TO EXCAVATION.
- 4. THE CONTRACTOR SHALL SUPPLY ALL PIPING, STRUCTURES, MATERIALS, AND APPURTENANCES, NECESSARY TO PERFORM ALL WET AND/OR DRY TAPS AS PART OF THIS CONTRACT.
- 5. NEW WATER SERVICES MUST BE LEFT SHUT OFF AT THE MAIN ON THE STREET UNTIL ACTIVATED BY THE CITY OF CAMBRIDGE.
- 6. A DYE TEST SHALL BE PERFORMED BY A CITY OF CAMBRIDGE INSPECTOR PRIOR TO THE ISSUANCE OF AN OCCUPANCY PERMIT.
- 7. THE RESPONSIBILITY OF OWNERSHIP AND MAINTENANCE OF THE SEWER, WATER, AND DRAIN CONNECTIONS ON PRIVATE PROPERTY AND/OR PRIVATE AND PUBLIC WAYS SHALL REMAIN THAT OF THE OWNER.
- 8. THE CITY OF CAMBRIDGE RESERVES THE RIGHT TO INSPECT ALL PRIVATE FACILITIES DISCHARGING TO MUNICIPAL FACILITIES.
- 9. DURING EXCAVATION AND CONSTRUCTION OF PIPES AND STRUCTURES, TRENCHES MUST BE ADEQUATELY BRACED AND PROTECTED AGAINST CAVE-IN.
- 10. ALL WORK PERFORMED AS PART OF THIS PROJECT SHALL CONFORM TO STANDARDS OF THE CITY OF CAMBRIDGE, DEPARTMENT OF PUBLIC WORKS AND ANY OTHER AGENCY OR BODY WITH AUTHORITY IN THIS AREA.
- 11. ALL EXISTING UTILITY SERVICE CONNECTIONS, SEWER DISPOSAL FACILITIES, AND WELLS SHALL BE ABANDONED UNLESS NOTED OTHERWISE. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXACT LOCATION OF EACH CONNECTION. THE WATER, DRAIN, AND SEWER SERVICES SHALL BE CAPPED AND CUT AT THE MAIN IN THE STREET BY THE CONTRACTOR. ABANDONMENT OF EXISTING CONNECTIONS SHALL BE COORDINATED BY THE CONTRACTOR WITH THE RESPECTIVE UTILITY COMPANY.
- 12. ALL UTILITIES SHOWN ON THIS SITE ARE TO THE EXTERIOR OF THE BUILDING FOUNDATION ONLY. UTILITIES THROUGH THE FOUNDATION AND INSIDE THE BUILDING ARE APPROXIMATE AND THE RESPONSIBILITY OF THE MECHANICAL ENGINEER. (SEE MECHANICAL ENGINEER PLANS)
- 13. CONTRACTOR SHALL ADJUST ALL GATES, SERVICE BOXES, ETC. WITHIN THE RECONSTRUCTION OF THE SIDEWALK AREA.
- 14. FOR ZONING REQUIREMENTS AND SETBACK INFORMATION, SEE ARCHITECTURAL DRAWING AND ZONING COMPLIANCE PLAN.
- 15. GRADES PROVIDED ARE INTERPOLATED FROM EXISTING CONDITIONS SURVEY. CONTRACTOR SHALL MEET THE EXISTING, UNEXCAVATED TOP OF CURB GRADE AND SIDEWALK GRADE AT THE LIMIT OF WORK.
- 16. ELEVATIONS DEPICTED ON PLANS ARE ON CITY OF CAMBRIDGE BASE DATUM.







SADDLE CONNECTION FOR DRAIN

BACKFILL PER

SPECIFICATIONS

CRUSHED STONE

SADDLE (SEE

DETAIL THIS SHEET)

LINER P

SADDLE CONNECTION - SECTION

NOT TO SCALE

PVC HOUSE OR

BUILDING LATERAL

NOT TO SCALE

1. REPLACE EXISTING SERVICE LINE TO EXTENT

SHOWN ON PLAN/PROFILES AND AS SPECIFIED.

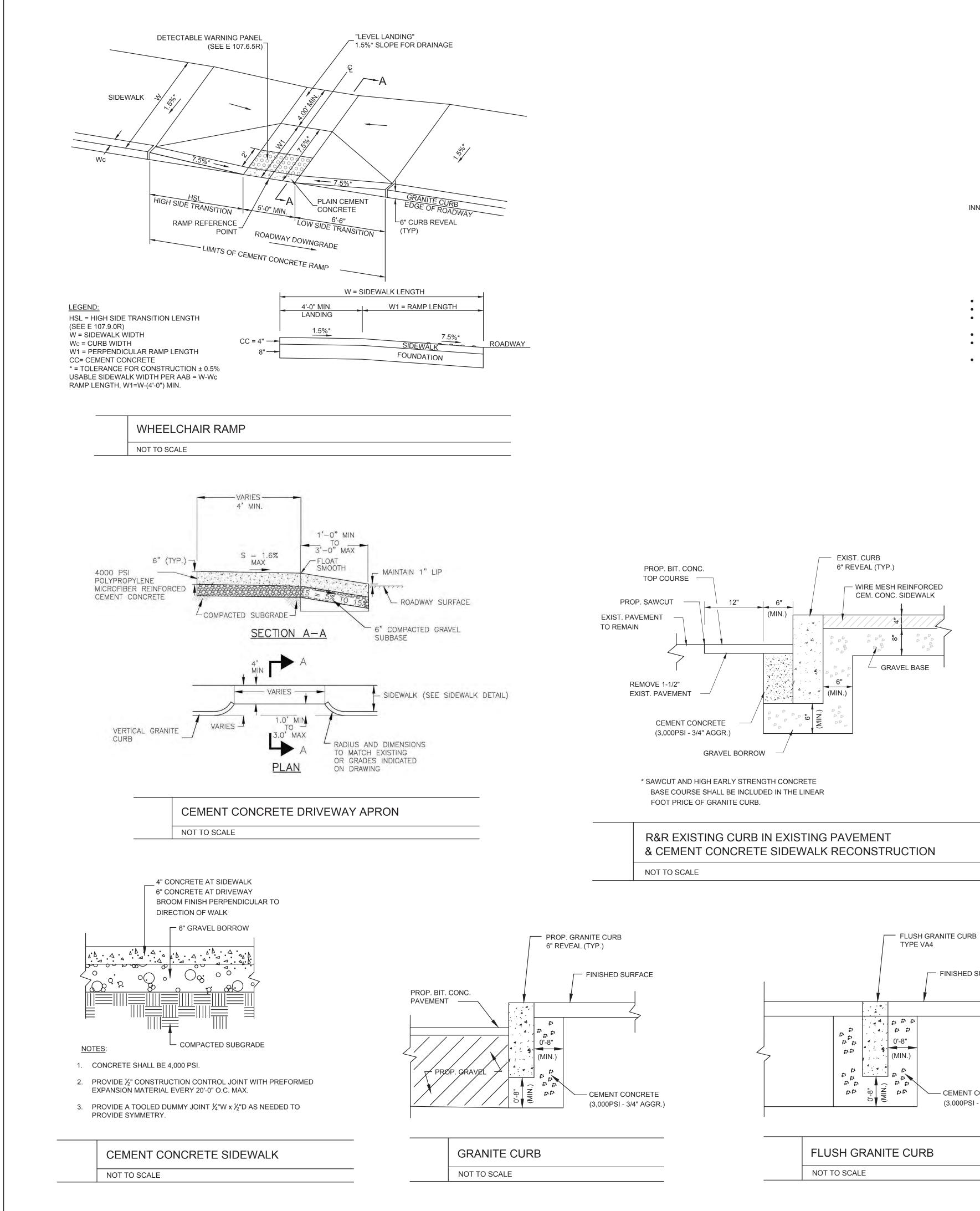
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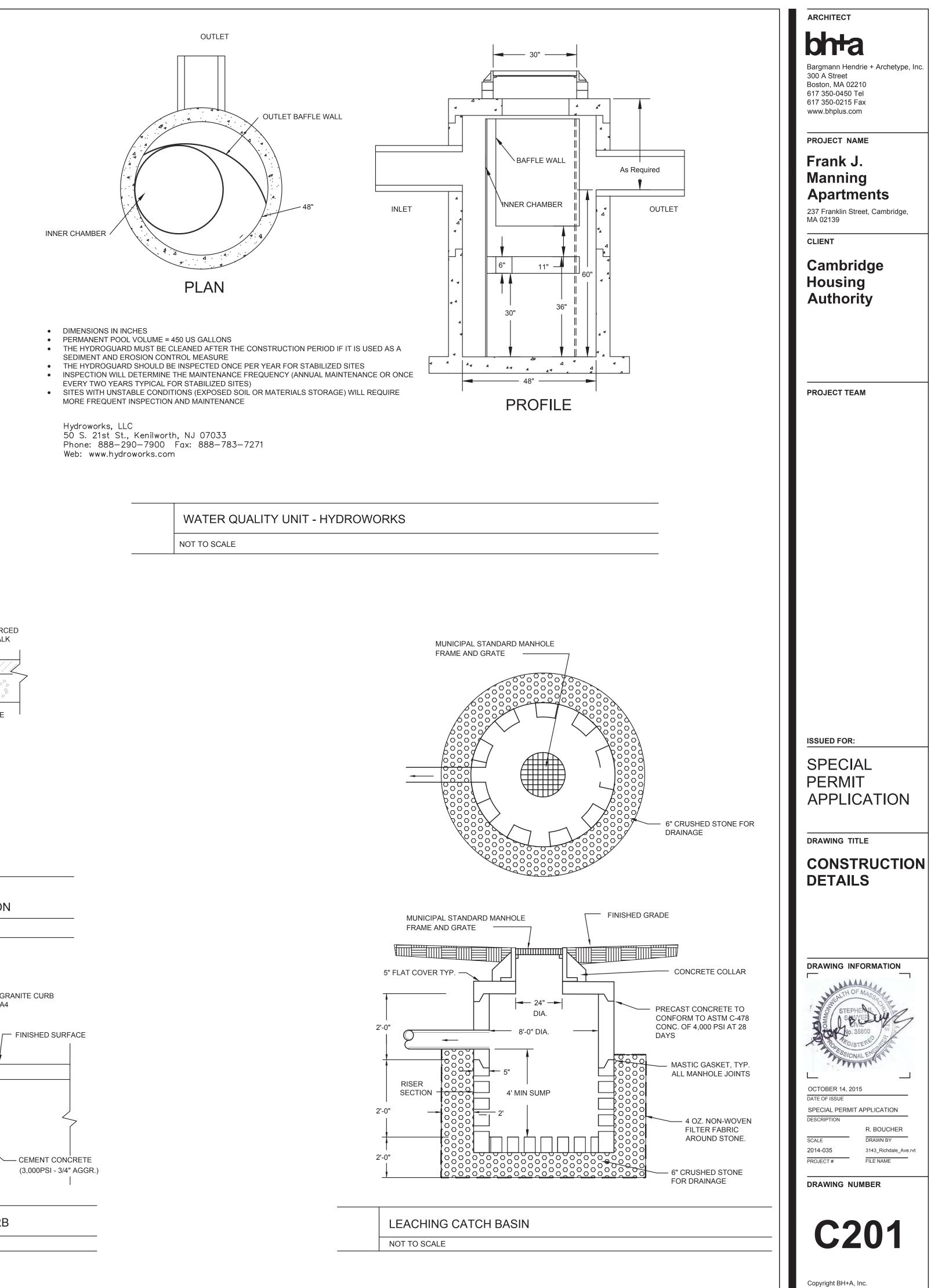
NOTES

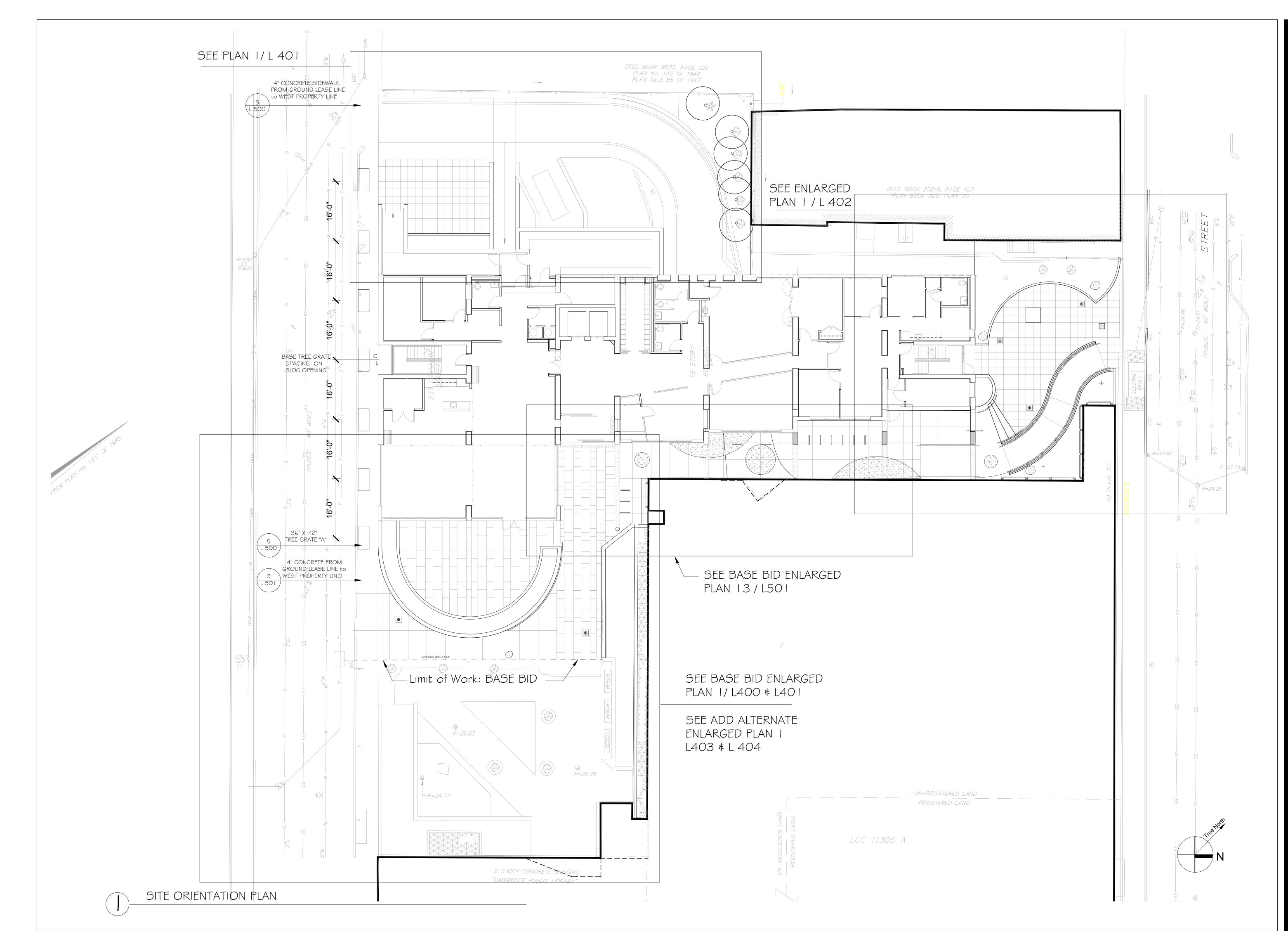
SIDES OF THE PIPES

6" MIN, BELOW THE PIPE

EXISTING SERVICE LATERAL







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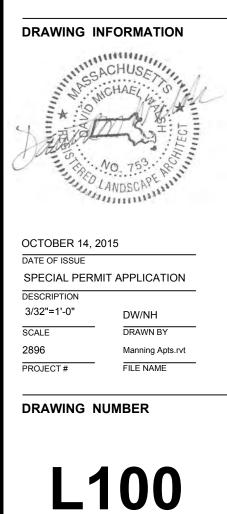
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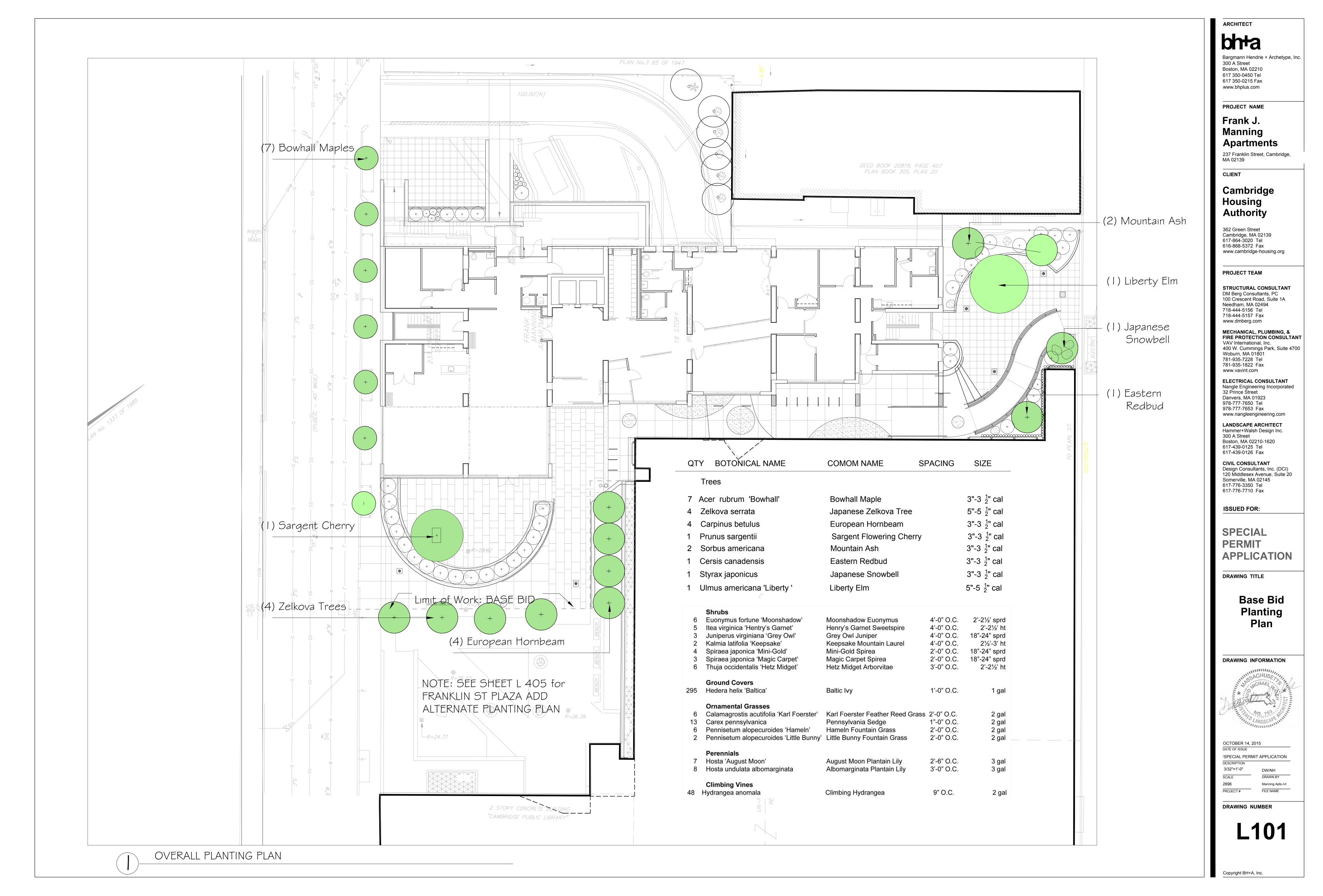
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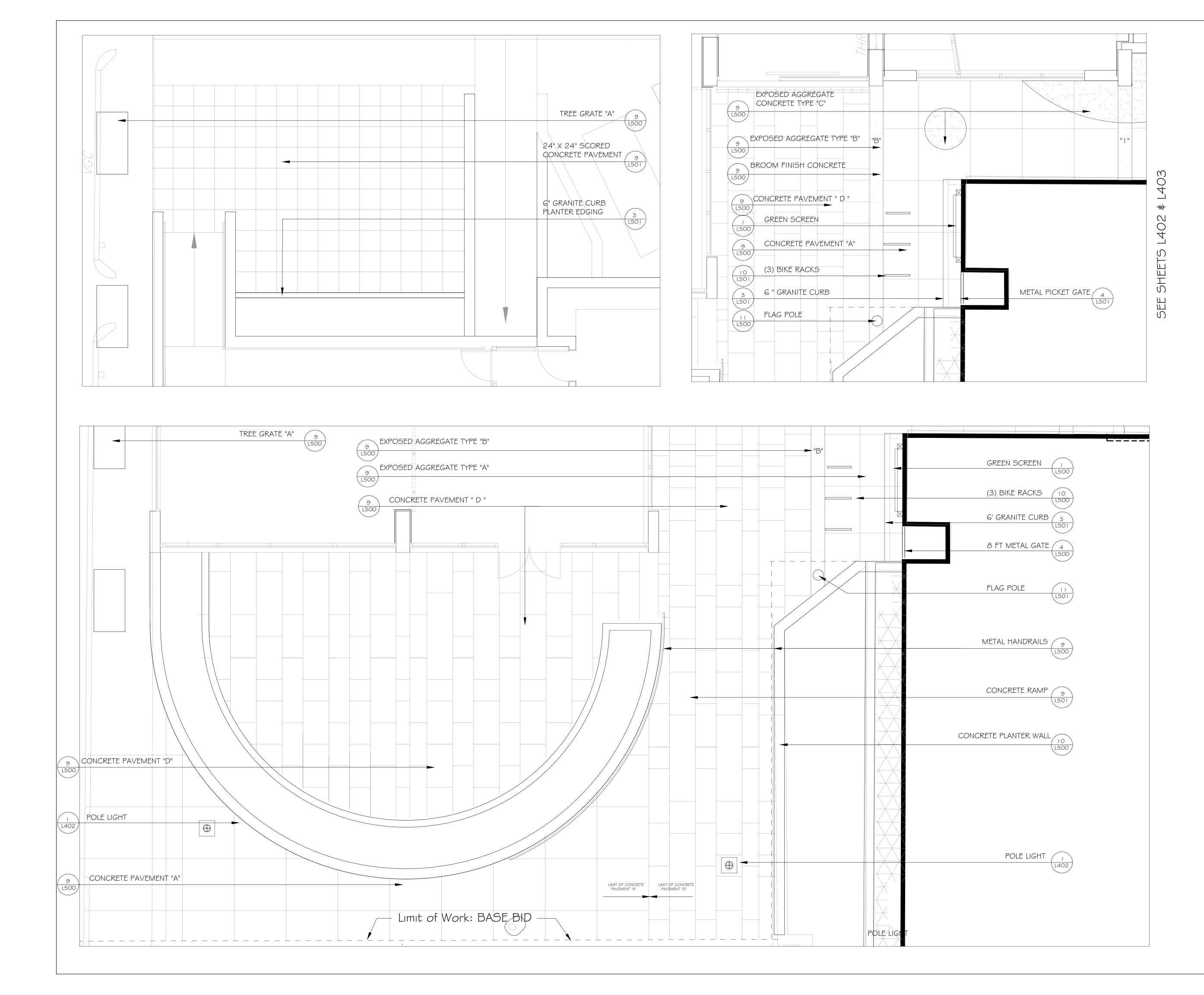
SPECIAL PERMIT APPLICATION

DRAWING TITLE

Site Orientation Plan







The NOC

ARCHITECT

bhta

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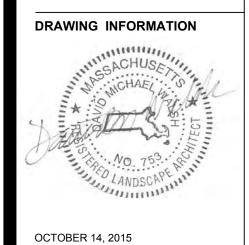
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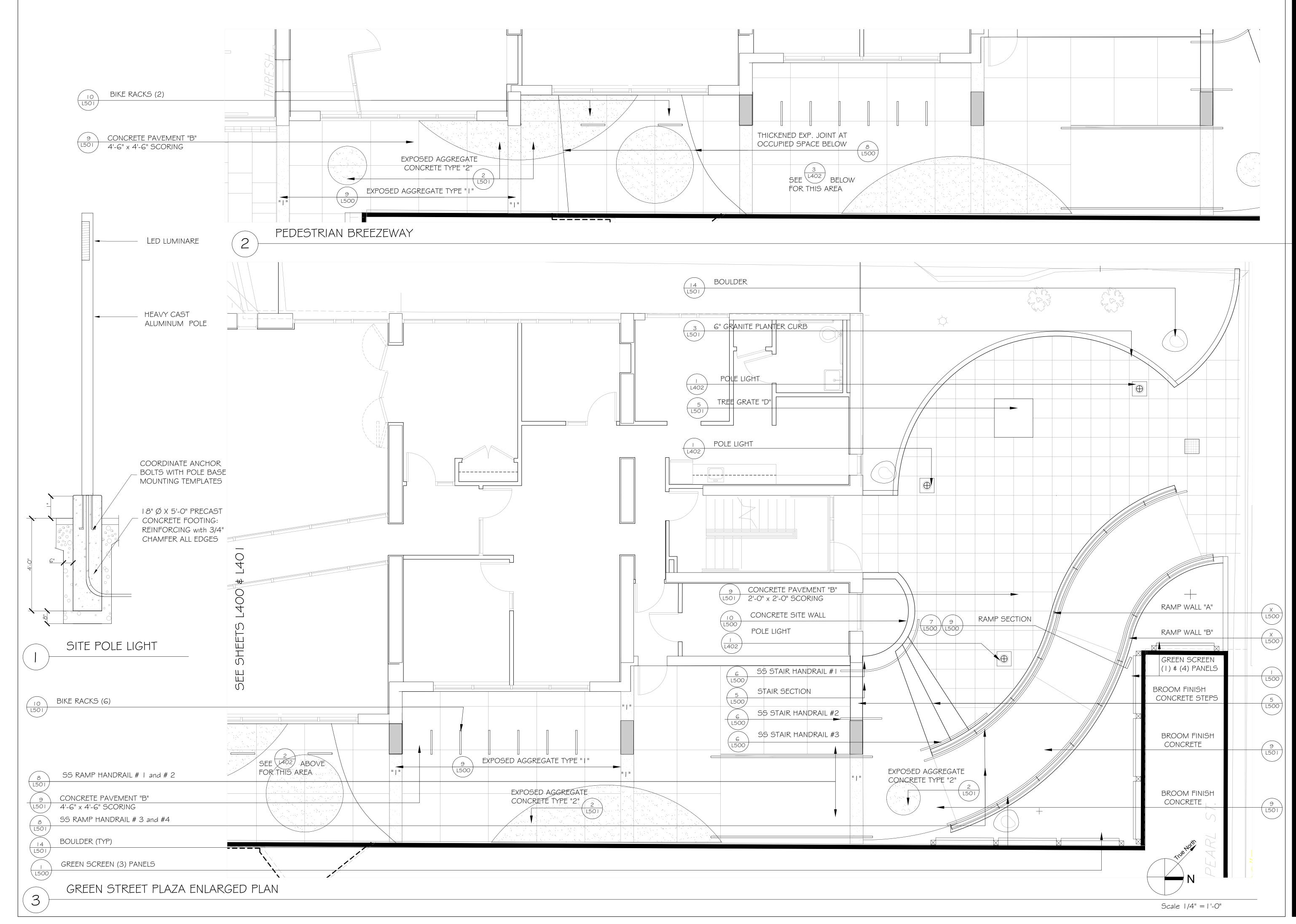
Base Bid Materials Plan: Franklin St Plaza



DATE OF ISSUE				
SPECIAL PERMIT APPLICATION				
DESCRIPTION				
1/4"=1'-0"	DW/NH			
SCALE	DRAWN BY			
2896	Manning Apts.rvt			
PROJECT #	FILE NAME			

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ARCHITECT

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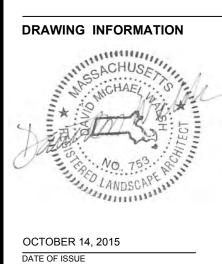
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DRAWING TITLE

Base Bid Enlarged Plans

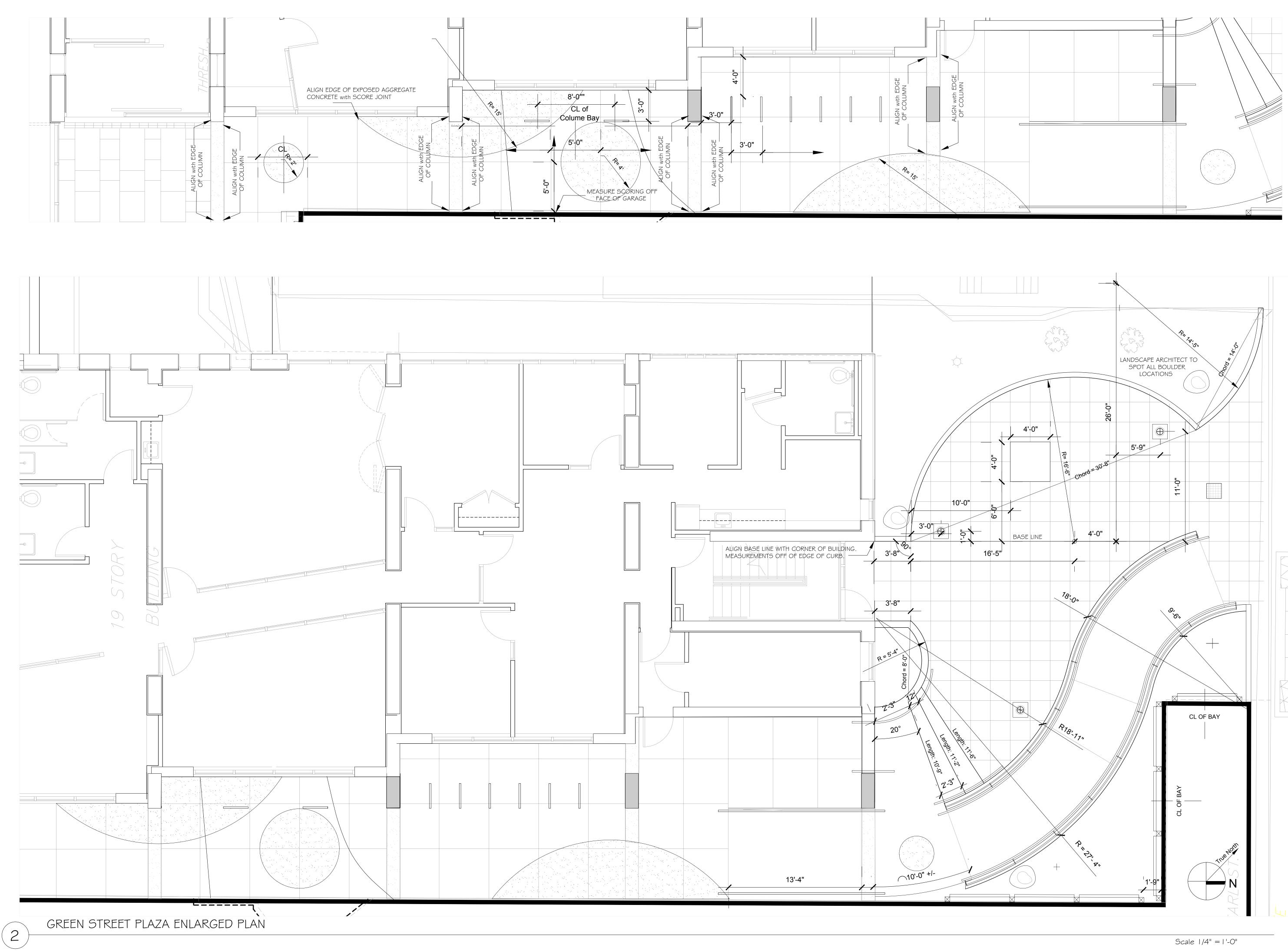


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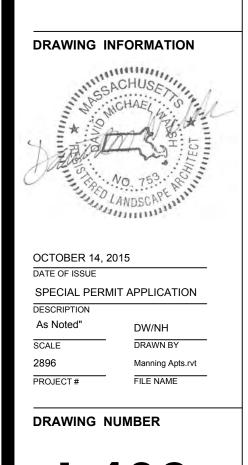
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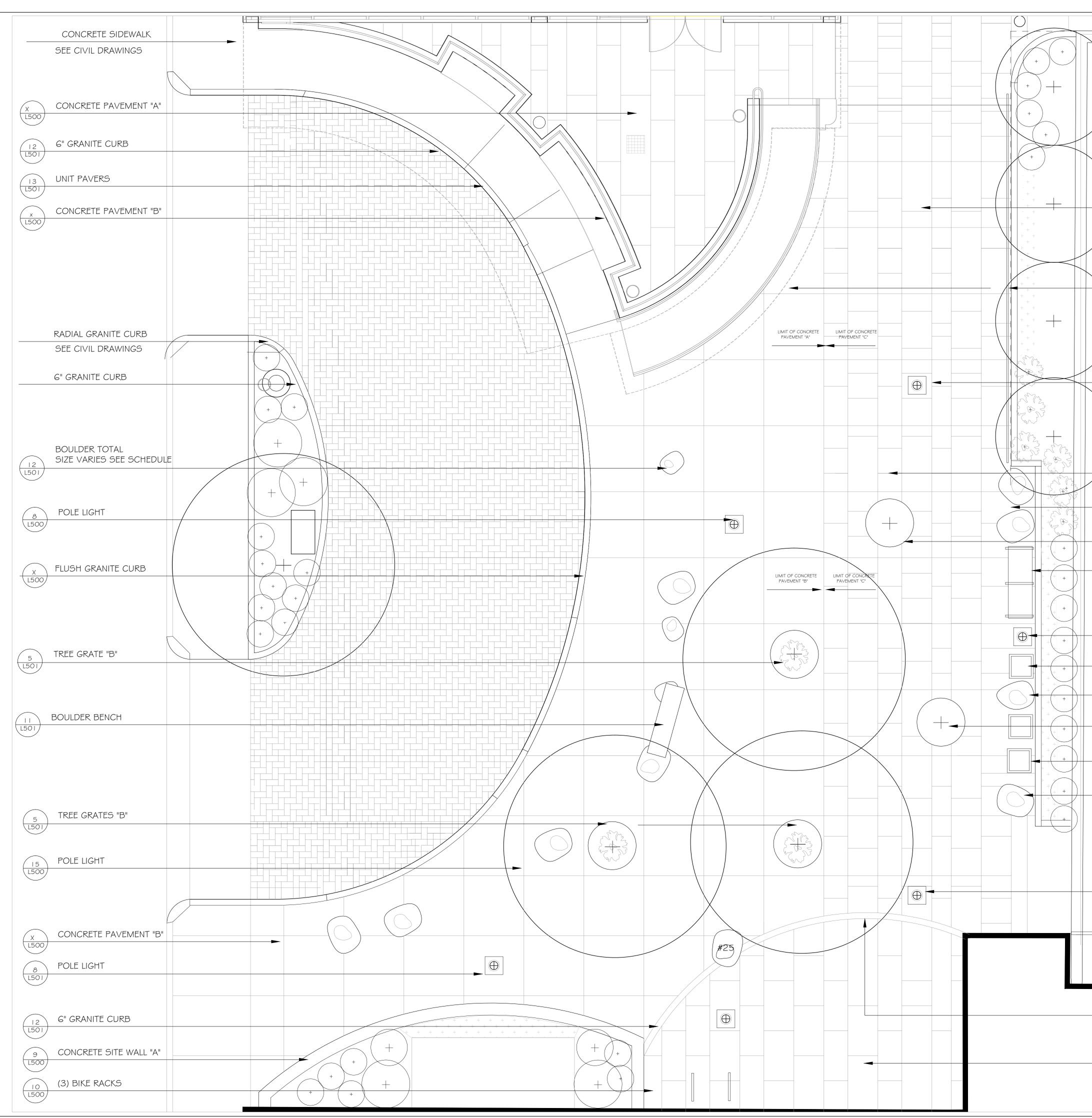
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Base Bid **Green Street** Plaza



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, Inc.

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AME

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Street, Cambridge,

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L CONSULTANT sultants, PC Road, Suite 1A 02494 Tel Fax com

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CONSULTANT ering Incorporated)1923 Tel Fax ngineering.com

ARCHITECT Ish Design Inc. 2210-1620 Tel Fax

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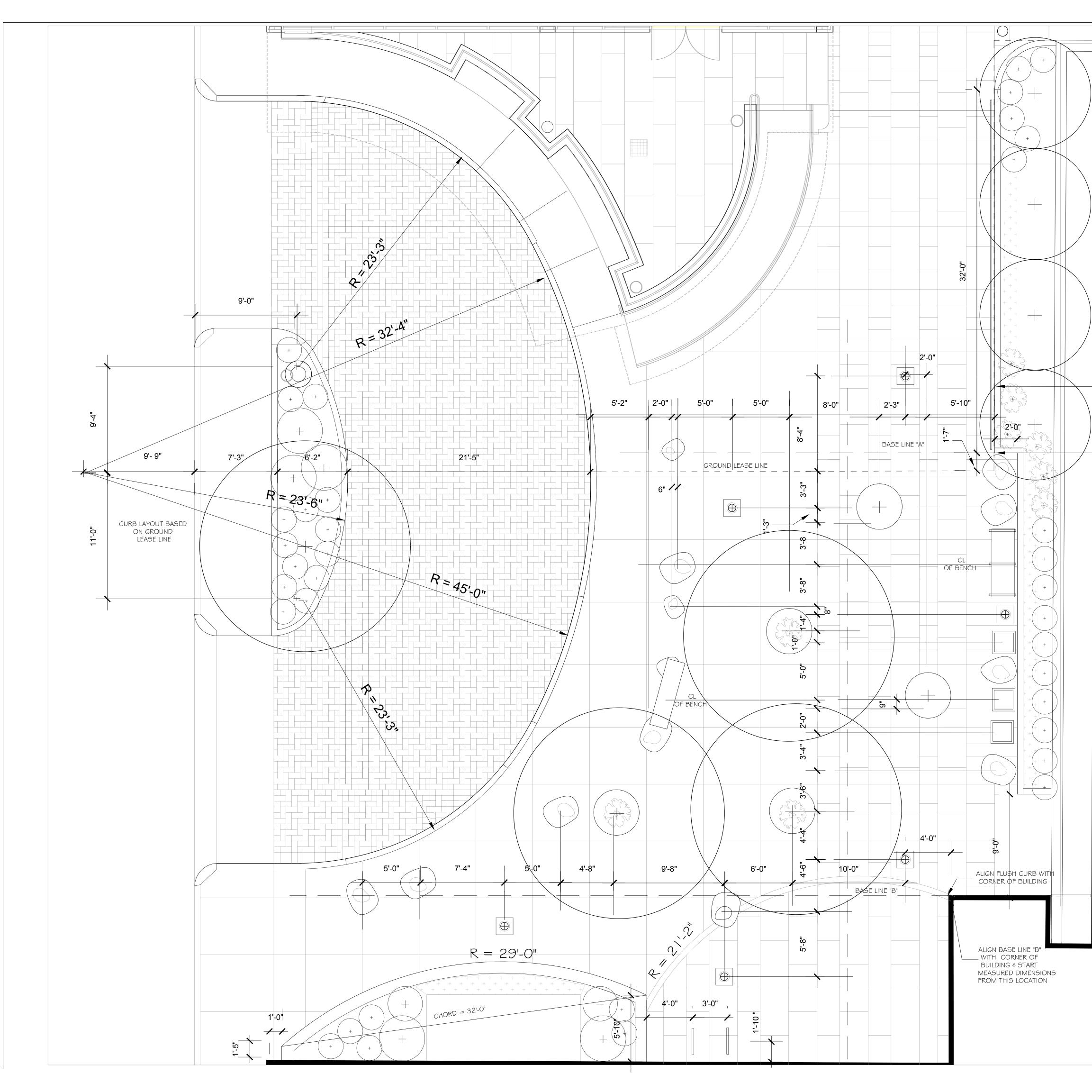
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MIT APPLICATION

DW/NH DRAWN BY Manning Apts.rvt FILE NAME

IUMBER





PLANTER WALL TO BE - PERPENDICULAR TO GROUND LEASE LINE ALIGN BASE LINE "A" WITH - CORNER OF PLANTER WALL: PERPENDICULAR TO FACE

ARCHITECT

bhta

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ISSUED FOR:

SPECIAL PERMIT APPLICATION

drawing title Add

Alternate Layout Plan: Franklin St Plaza

DRAWING INFORMATION

 DESCRIPTION

 1/4"=1'-0"

 DW/NH

 SCALE

 DRAWN BY

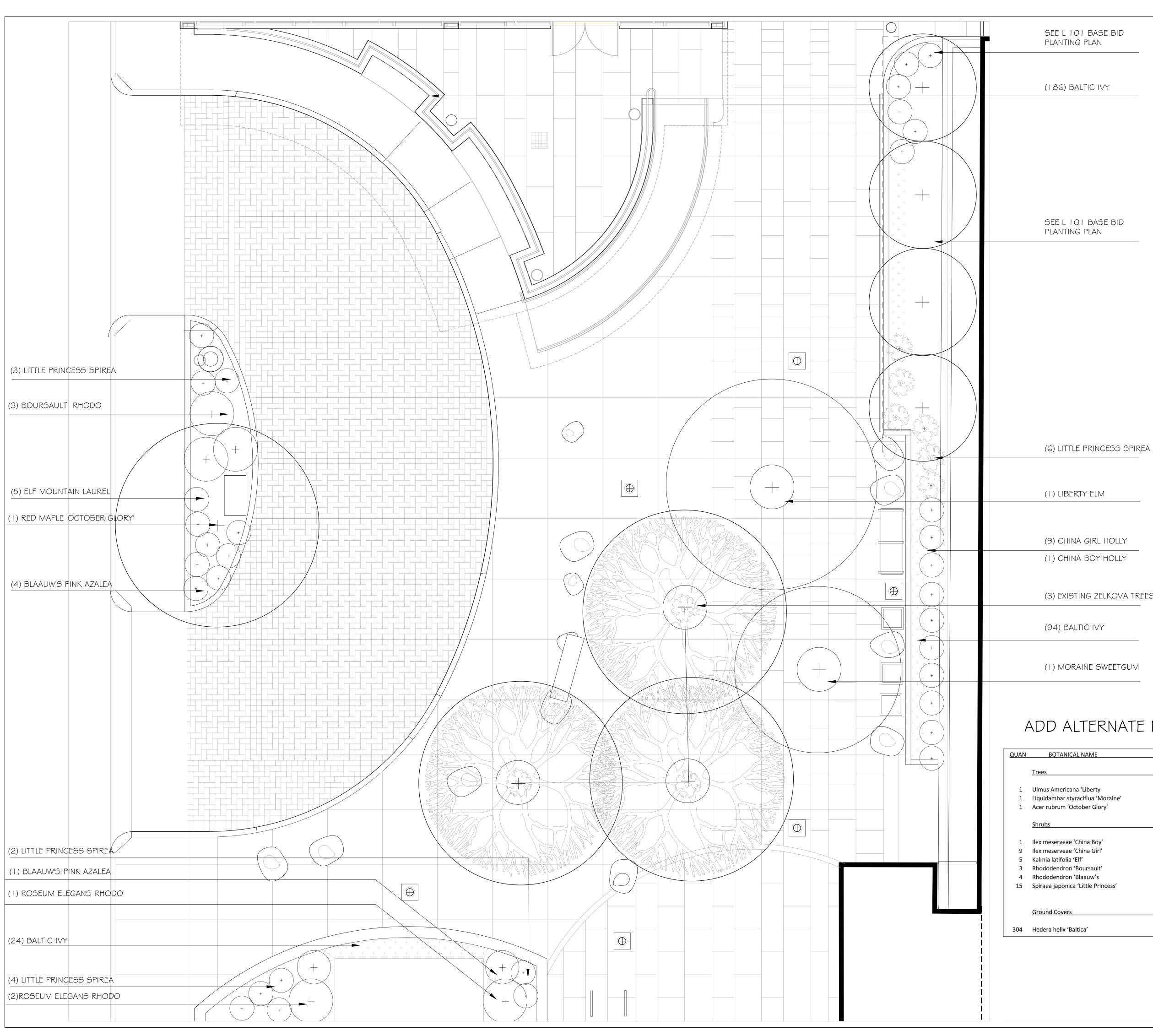
 2896

 Manning Apts.rvt

 PROJECT #

DRAWING NUMBER





bhta

ARCHITECT

Bargmann Hendrie + Archetype, Inc. 300 A Street Boston, MA 02210 617 350-0450 Tel 617 350-0215 Fax www.bhplus.com

PROJECT NAME

Frank J. Manning Apartments

237 Franklin Street, Cambridge, MA 02139

CLIENT

Cambridge Housing Authority

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ISSUED FOR:

SPECIAL PERMIT **APPLICATION**

DRAWING TITLE ADD Alternate Planting Plan:

Franklin St Plaza



DESCRIPTION 1/4"=1'-0" DW/NH DRAWN BY SCALE 2896

Manning Apts.rvt PROJECT # FILE NAME

DRAWING NUMBER

Copyright BH+A, Inc.



(186) BALTIC IVY

SEE L IOI BASE BID

PLANTING PLAN

SEE L I O I BASE BID PLANTING PLAN

(3) EXISTING ZELKOVA TREES

(94) BALTIC IVY

(I) LIBERTY ELM

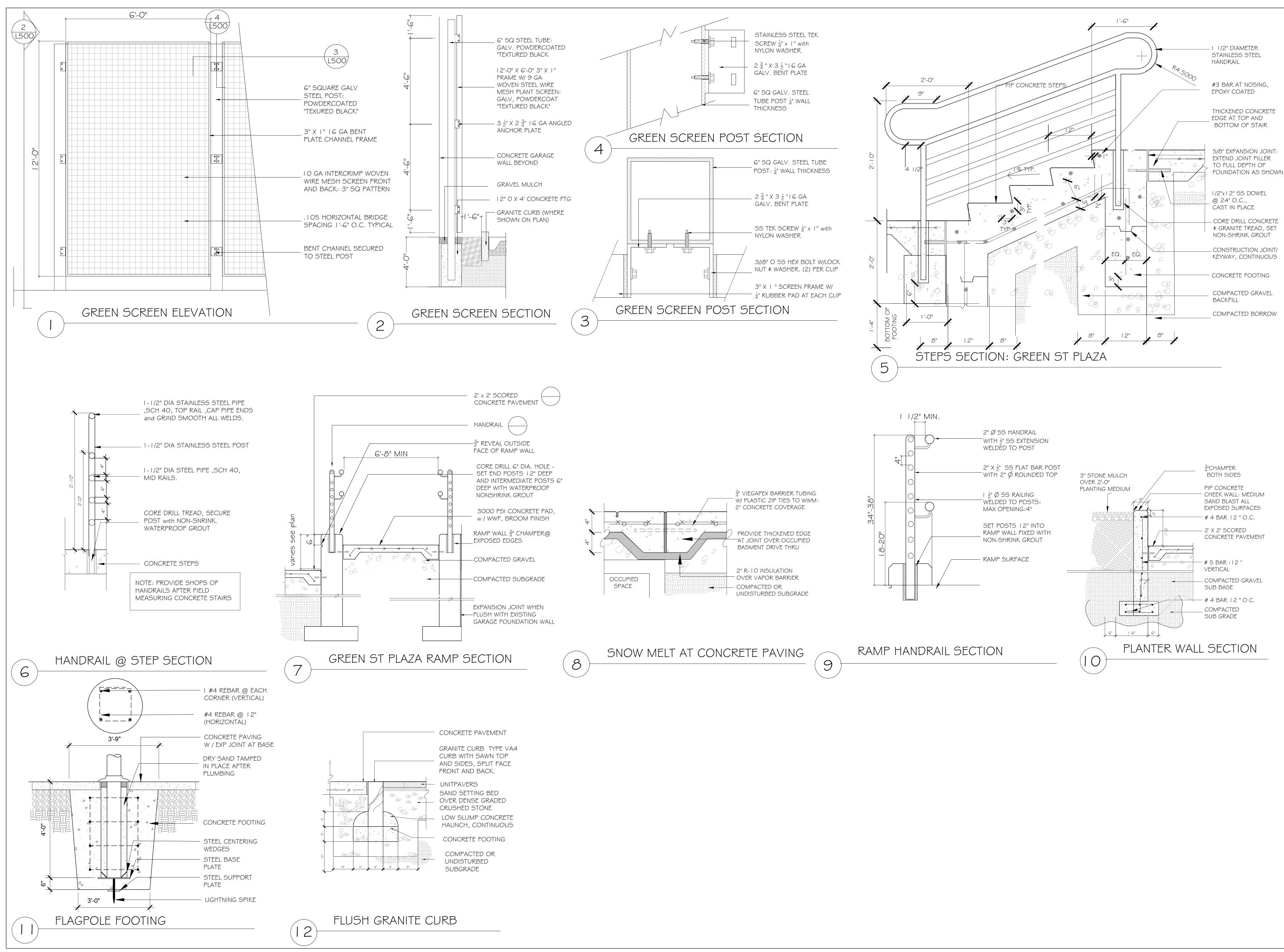
(9) CHINA GIRL HOLLY

(I) CHINA BOY HOLLY

(I) MORAINE SWEETGUM

ADD ALTERNATE NO . I PLANT LIST

SIZE COMMON NAME QUAN BOTANICAL NAME Trees 5"-5½" cal 1 Ulmus Americana 'Liberty Liberty Elm 3"-3½" cal 1 Liquidambar styraciflua 'Moraine' Moraine Sweetgum 3"-3½" cal 1 Acer rubrum 'October Glory' October Glory Red Maple <u>Shrubs</u> China Boy Holly 2½'-3' ht 1 Ilex meserveae 'China Boy' 2½'-3' ht 9 Ilex meserveae 'China Girl' China Girl Holly 2'-2½' ht 5 Kalmia latifolia 'Elf' Elf Mountain Laurel 2½'-3' ht Boursault Rhododendron 3 Rhododendron 'Boursault' 4 Rhododendron 'Blaauw's Blaauw's Pink Azalea 2½'-3' ht 15 Spiraea japonica 'Little Princess' Little Princess Spirea 2½'-3' ht Ground Covers 304 Hedera helix 'Baltica' **Baltic Ivy** 4" pots



- CHEEK WALL: MEDIUM SAND BLAST ALL EXPOSED SURFACES - # 4 BAR 12 " O.C.

CONCRETE PAVEMENT

- COMPACTED GRAVEL

- # 4 BAR 12 " O.C.

ARCHITECT

bhta

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PROJECT NAME

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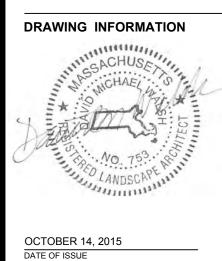
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ISSUED FOR:

SPECIAL PERMIT **APPLICATION**

DRAWING TITLE

Green St Plaza Details



SPECIAL PERMIT APPLICATION DESCRIPTION As Noted DW/NH

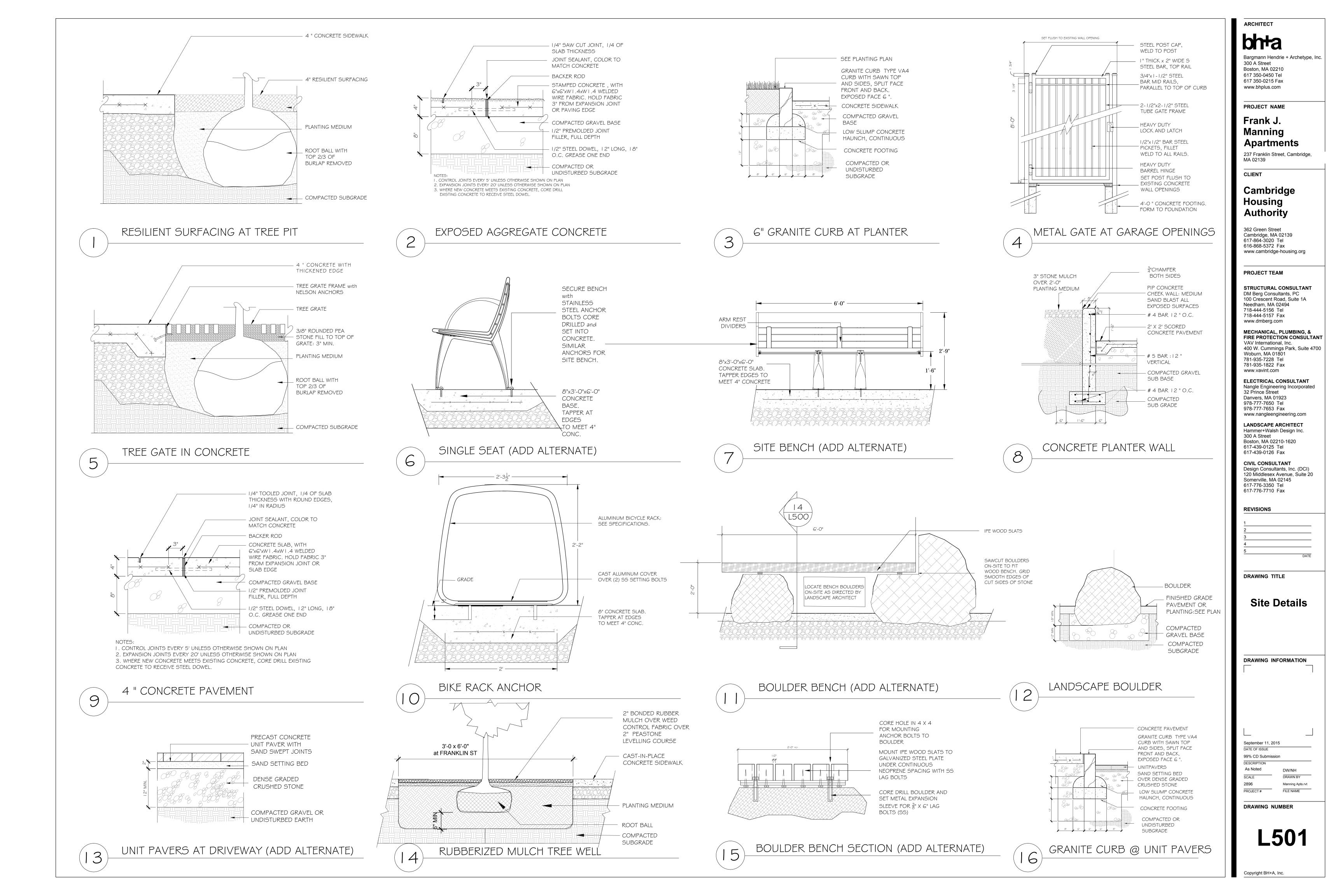
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DRAWING NUMBER

SCALE

2896







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NG DATA AND CODE REQUIREMENTS	
DING PROJECT DATA	
. Project Name: . Legal Address:	Frank J. Manning Apartments 237 Franklin Street, Cambridge, MA 02139
. Client / Owner: . Owner's Project Representative:	Cambridge Housing Authority BH+A
. New Construction: . Gross Building Area: . Construction Work Area (IEBC 401):	1st & 2nd Floors; Penthouse/Roof Level 160,007 SF & 160,530 SF Alternate #1 155,686 SF Existing / 160,007 SF & 160,530 SF Alternate #1
. Number of Stories: Gross Area per Story:	Twenty Stories (Includes Penthouse) & Basement Floor Basement: 8,854 SF Existing / 9,139 SF
	1st Floor: 8,351 SF Existing / 8,972 SF 2nd Floor: 7,345 SF Existing / 7,535 SF & 8,058 SF Alternate #1
DE REQUIREMENTS	Typical Upper Floor: 7,618 SF Existing / 7,763 SF Penthouse: 1,630 SF Existing / 2,390 SF
Applicable Codes: -Building:	
-The Massachusetts State Building Code 7 -International Building Code (IBC) 2009 - A	mended
-Internationsl Existing Building Code (IEBC -Fire Prevention: -Massachusets Fire Prevention Regulation	
-Accessibility: -Massachusetts Architectural Access Board	d Regulations 521 CMR
-Fair Housing Act (FHA) - IBC Safe Harbor -Americans with Disabilities Act (ADA) - 20 -Electrical:	
-Massachusetts Electrical Code CMR 527 -National Electric Code 2014 - Amended	12.00
-Elevators: -Massachusetts Elevator Code 524 CMR	
-ASME A17.1 2004 - Amended -Mechanical: -International Mechanical Code 2009	
-Plumbing: -Massachusetts Plumbing Code 248 CMR	
. Use: 1. Use Group (IBC 310.0):	Group A-3, Group B, Group R-2 & Group S-1
 Construction Type Existing (IBC 602): Construction Type Additions (IBC 602): Classification of Work: 	Type IA Reduced to IB (per 780 CMR 1st Edition) Type IIB Alteration Level 3
. General Limitations:	
1. Existing Building: 2. Existing Building Height (IBC 504): 3. Existing Building Area (IBC 503):	Comply w/ 780 CMR Chapter 34 (8th Edition) & IEBC 205' Existing; Unlimited allowed per Table 503 for Type IA 157 331 SE Existing: Unlimited allowed per Table 503 for Type IA
 Existing Building Area (IBC 503): Fire Resistance Ratings for New Systems (IBC C 	157,331 SF Existing; Unlimited allowed per Table 503 for Type IA chapters 6 & 7; IEBC Chapter 7):
1. Exterior Walls (IBC 602): 2. Stairwells, Elevator & Other Shafts:	Varies: 1 Hr within 30' of Type IB 2 Hr
 Fire Partitions at Corridors (IBC 709): Fire Partitions at Dwelling Units (IBC 709): Other Non-Load Bearing Partitions (IBC 601) 	1/2 Hr per Table 1018.1 1 Hr): 0 Hr
 6. Floor Construction (IBC 601): 7. Roof Construction (IBC 601): 	2 Hr at Type IB & 0 Hr at Type IIB 1 Hr at Type IB & 0 Hr at Type IIB
. Fire Protection (IBC Chapter 9; IEBC 704; 780 C	
 Automatic Sprinkler System (IBC 903.2.8): Standpipe (IBC 905.1): Fire Protection Signaling (IBC 903.4 & 907): 	Required per NFPA 13; Existing to be modified as required Required per NFPA 14; Existing Required per NFPA 72; Existing to be modified as required
4. Automatic Fire Detection (IBC 907 & IEBC 70 5. Manual Fire Alarms (IBC 907.2.9.1):	04.4): Required per NFPA 72; Existing to be modified as required Required per NFPA 72; Existing to be modified as required
 Smoke Detection (IBC 907.2.9): Fire Extinguishers (IBC 906): 	Required per NFPA 72; Existing to be modified as required Required
8. Fire Command Center (IBC 403.4.5): . Egress Requirements (IBC Chapter 10):	Required
1. Occupant Load: A. Basement:	Total Occupancy: 935 Occupants / 999 in Alternate #1 40 Occupants
B. First Floor: C. Second Floor: D. Third Through Nineteenth Floore:	212 Occupants 168 Occupants / 232 Occupants in Alternate #1 20 Occupants per floor = 510 total
D. Third Through Nineteenth Floors: E. Penthouse: 2. Capacity per Unit Egress Width (Stair / Door)	30 Occupants per floor = 510 total 5 Occupants 2" per occupant / .15" per occupant
A. Stair #1 / Exit #1: B. Stair #2 / Exit #2:	44" / 34" Provided 44" / 34" Provided
 Max Travel Distance with Sprinklers (IBC 10⁻ Min Stair Width (IBC 1009): Min Corridor Width (IBC 1018): 	16): Group B: 300'; Group R: 250' 44"; 44" Provided 44"; 60" Provided on upper floors
	CODE REVIEW LEGEND
	CODE REVIEW LEGEND Image: Company of the secure and the secur
	GROUP B OCCUPANCY GROUP R-2 OCCUPANCY
UPANCY OCC	GROUP B OCCUPANCY GROUP R-2 OCCUPANCY GROUP S OCCUPANCY
UPANCY OCC	GROUP B OCCUPANCY GROUP R-2 OCCUPANCY
UPANCY DPANCY NOT	GROUP B OCCUPANCY GROUP R-2 OCCUPANCY GROUP S OCCUPANCY
UPANCY 7SF 7OCC	GROUP B OCCUPANCY GROUP R-2 OCCUPANCY GROUP S OCCUPANCY GROUP S OCCUPANCY GROUP A-3 OCCUPANCY

1 HOUR RATED ASSEMBLY

- - - 1/2 HOUR RATED ASSEMBLY (AT CORRIDORS)

2 HOUR VERTICAL SHAFT LOCATION

—·—·**—**

bha Bargmann Hendrie + Archetype, Inc.

ARCHITECT

300 A Street Boston, MA 02210 617 350-0450 Tel 617 350-0215 Fax www.bhplus.com

PROJECT NAME

Frank J. Manning **Apartments** 237 Franklin Street, Cambridge, MA 02139

CLIENT

Cambridge Housing **Authority**

362 Green Street Cambridge, MA 02139 617-864-3020 Tel 616-868-5372 Fax www.cambridge-housing.org

PROJECT TEAM

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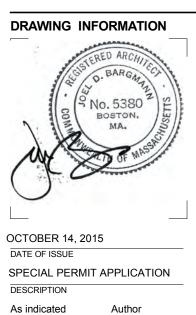
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ISSUED FOR:

SPECIAL PERMIT **APPLICATION**

DRAWING TITLE

Code Review Summary



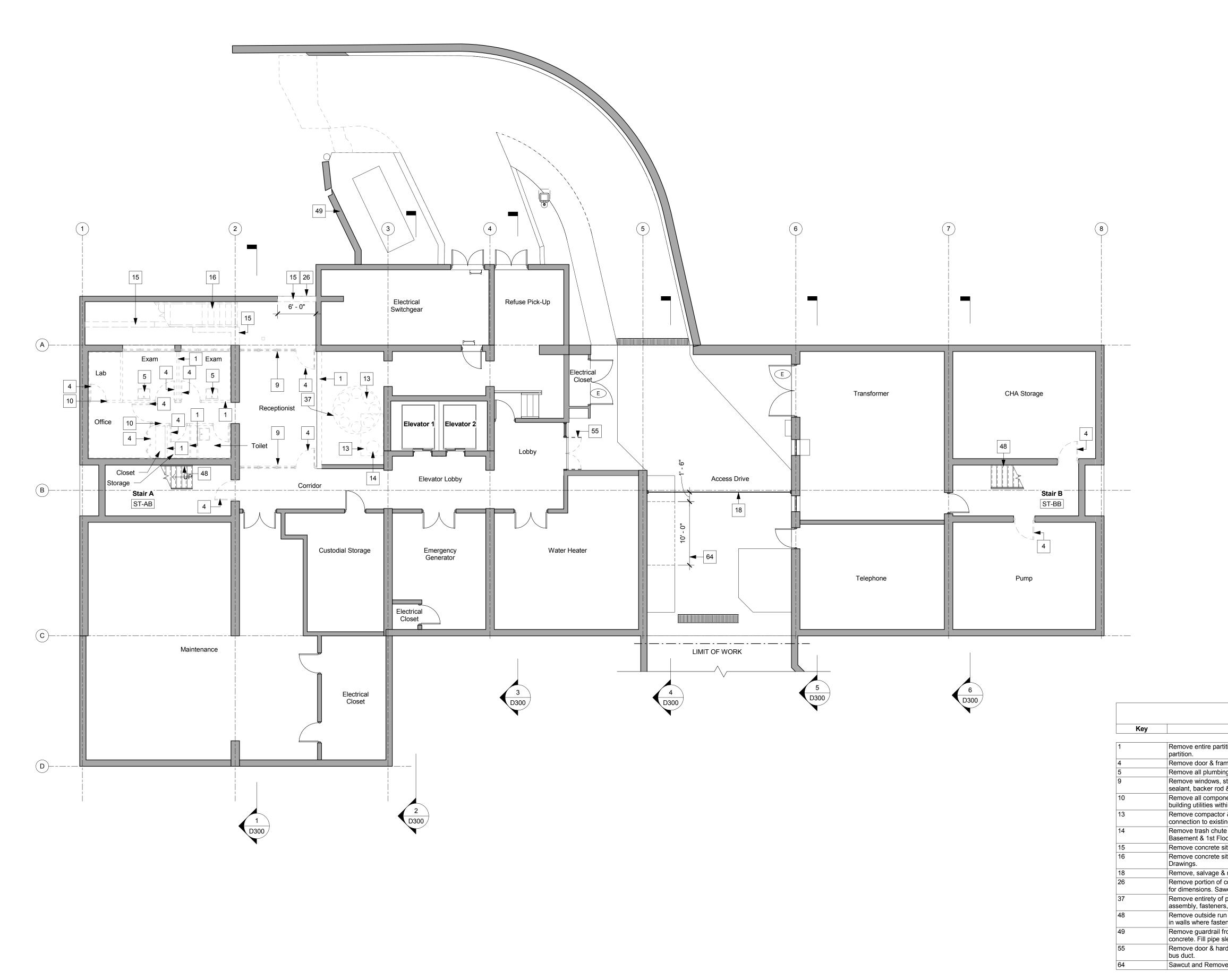
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DRAWING NUMBER

SCALE

2896

A002



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GENERAL DEMOLITION NOTES

1. WHERE EXISTING FINISH SURFACE IS TO REMAIN, REPAIR & PATCH ALL LOCATIONS ASSOCIATED WITH DEMOLITION & REMOVAL OF ADJACENT FINISHES, FRAMING, FASTENERS, ETC...

2. PROTECT ALL MATERIALS, DOORS/FRAMES, FINISHES THAT ARE TO REMAIN AT COMPLETION.

3. ALL ITEMS SLATED FOR REMOVAL ARE SHOWN DASHED. DEMOLITION KEYNOTE TAGS INDICATE TYPICAL REMOVALS.

4. REFER TO PHASING PLANS FOR PROJECT SEQUENCING.

5. ADDITIONAL DEMOLITION INFORMATION SPECIFIC TO TRADE IS IDENTIFIED WITHIN SITE, STRUCTURAL, MECHANICAL, PLUMBING, ELECTRICAL & FIRE PROTECTION DRAWINGS.

6. WORK AREAS & SPACES AVAILABLE TO TENANTS TO BE CLEANED DAILY.

7. REFER TO A400 ENLARGED PLAN SERIES FOR DEMOLITION SPECIIFIC TO EXISTING UNITS. UNIT TYPES 6, 9 & 10 ARE NEW & THE DEMO FOR THOSE INSTANCES IS ON D102.

8. EXISTING FLOORING IN ALL WORK AREAS TO BE REMOVED DOWN TO THE CONCRETE DECK. REMOVALS TO INCLUDE BUT NOT LIMITED TO VINYL COMPOSITION TILE, CARPET, SHEET FLOORING, CERMAIC TILE, TRANSITIONS, ADHESIVES & MASTICS, UNDERLAYMENT, MORTAR BEDDING.

9. REFER TO D202 FOR ENLARGED DEMOLITION ELEVATIONS OF LOWER FLOORS

Demolition Keynotes	
Key Note	
ition; including but not limited to gypsum board, studs, CMU, concrete, fasteners, finishes, building utilities within	
me in its entirety, including but not limited to door, frame, sidelight / glass, anchors, fasteners, finishes, hardware.	
ng fixtures in their entirety, including but not limited to fixture body, fasteners, supply & waste connections.	
storefront, curtainwall & louvers, including but not limited to window, louver, sub sill, blocking & shims, fasteners, & flashing. Typical at all instances.	

 Remove all components of partition to extent shown on plan; including but not limited to gypsum board, studs, fasteners, finishes & building utilities within portion of partiton to be removed.

 Remove compactor & turntable in their entirety, including but not limited to primary equipment, fasteners, power connections, controls,

connection to existing trash chute. Remove trash chute at Basement & 1st Floors. Remainder of existing chute to remain in place & be connected to new chute at Basement & 1st Floors.

Remove concrete site wall, including but not limited to concrete, reinforcing, footers.

Remove concrete site stair in its entirety, including but not limited to treads & risers, handrails, fasteners, coordinate limits with Structural Drawings. Remove, salvage & re-install existing gate system. Refer to A100 for new location.

Remove portion of concrete wall. Refer to Structural drawings for removal information. Coordinate with drawing D300 and Architecturals
for dimensions. Sawcut opening.Remove entirety of penthouse structure indicated down to concrete deck, including but not limited to framing, metal siding, roof

assembly, fasteners, flashing. Demolition Remove outside run handrails at Stairs A & B in their entirety, including but not limited to pipe, brackets, fasteners, sealant. Patch holes

in walls where fasteners have been removed. Interior run handrail to remain. Remove guardrail from top of concrete wall. Remove entirety of pipe assembly above concrete & grind cut down smooth to top of concrete. Fill pipe sleeve after grinding with non-shrink grout flush to top of concrete. Demolition

Remove door & hardware. Frame to remain, including sidelite & transom frame. New panel to be set into transom frame; coordinate with bus duct.

Sawcut and Remove Raised Concrete Curb.

bhha

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ISSUED FOR:

SPECIAL PERMIT APPLICATION

DRAWING TITLE

Basement Demolition Plan



SPECIAL PERMIT APPLICATIONDESCRIPTION1/8" = 1'-0"SCALE2896Manning Apts.rvt

FILE NAME

DRAWING NUMBER

PROJECT #

