

59 BOW ST. RESIDENCES

<u>ARCHITECT</u> KHALSA DESIGN INC. 17 IVALOO STREET, SUITE 400

SOMERVILLE, MA 02143 T: 617.591.862

<u>PHIUS</u>

11 STEARNS STREET CAMBRIDGE MA T: 617-699-7323

BOWMAN 20 WINTHROP SQ. 3RD FLOOR BOSTON, MA 617-556-0020

<u>MEP</u> ZADE ASSOCIATES, LLC 140 BEACH ST., BOSTON MA T: 617-338-4406

HERS/TESTING ADVANCED BUILDING ANALYSIS

2 WOODLAND STREET AMESBURY MA T: 978-2703911

<u>CIVIL</u> SPRUHAN ENGINEERING, P.C. 80 JEWETT ST., (SUITE 1) NEWTON, MA T: 617-816-0722

STRUCTURAL

BOW ST. RESIDENCES

59 BOW ST., SOMERVILLE MA

<u>CLIENT</u>

PO BOX 610312 NEWTON, MA 02143

TLH CONSULTING SMT DEVELOPMENT 3 SURVEY CIR. #2

NORTH BILLERICA, MA T: 978-362-1804

LINNEAN SOLUTIONS

<u>TRANSPORTATION</u>

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PROJECT NAME

PROJECT ADDRESS

ARCHITECT

59 BOW STREET

RESIDENCES

59 BOW STREET

SOMERVILLE MA

SMT DEVELOPMENT

ARCHITECTURE

KHALSA DESIGN, INCORPORATED

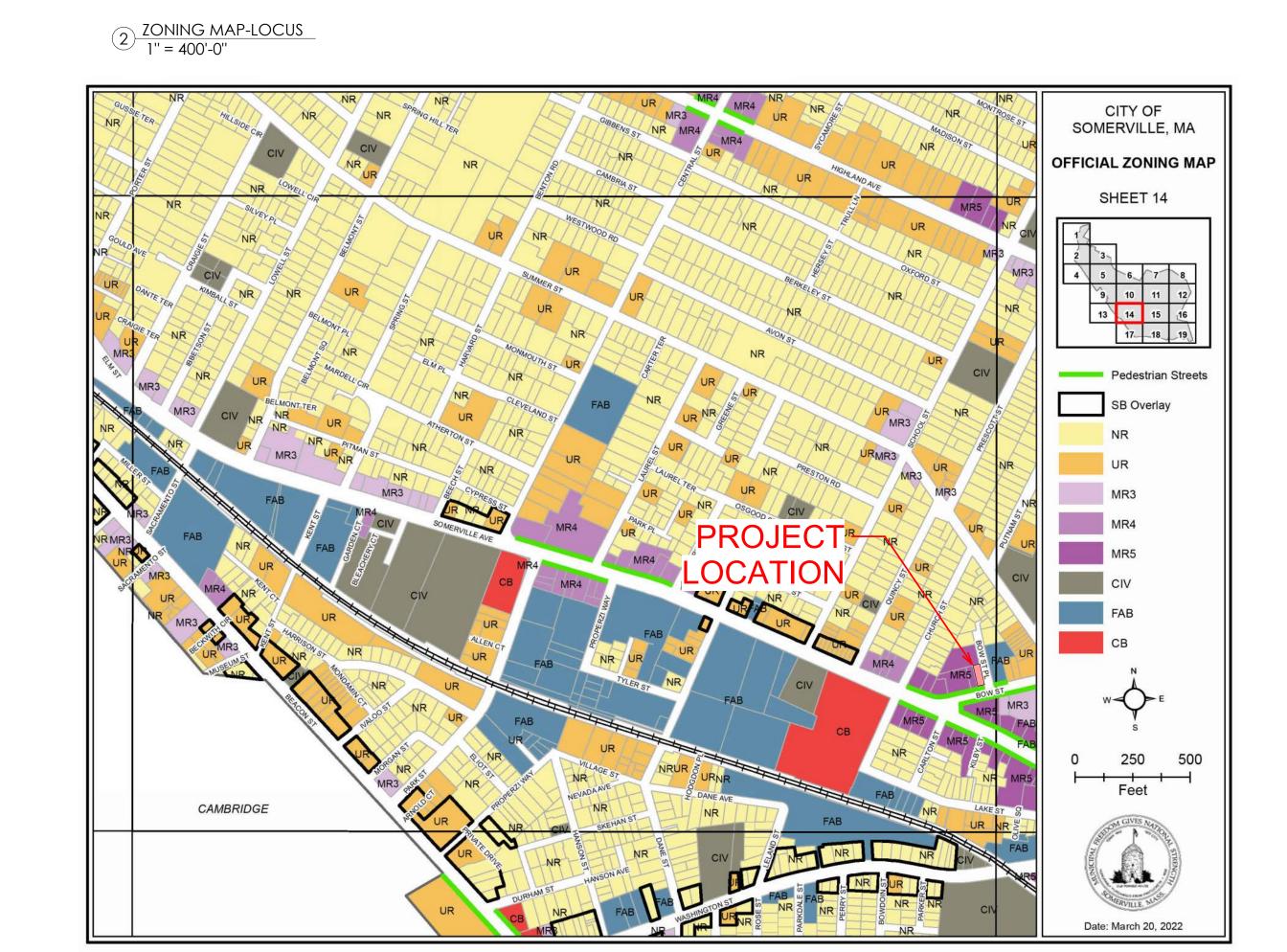
17 IVALOO STREET SUITE 400 SOMERVILLE, MA 02143 TELEPHONE: 617-591-8682

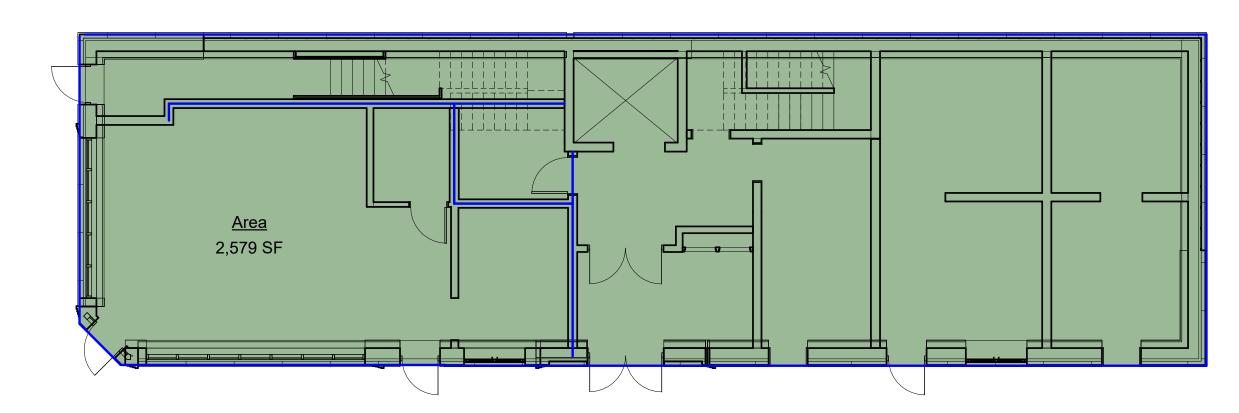
CONSULTANTS:



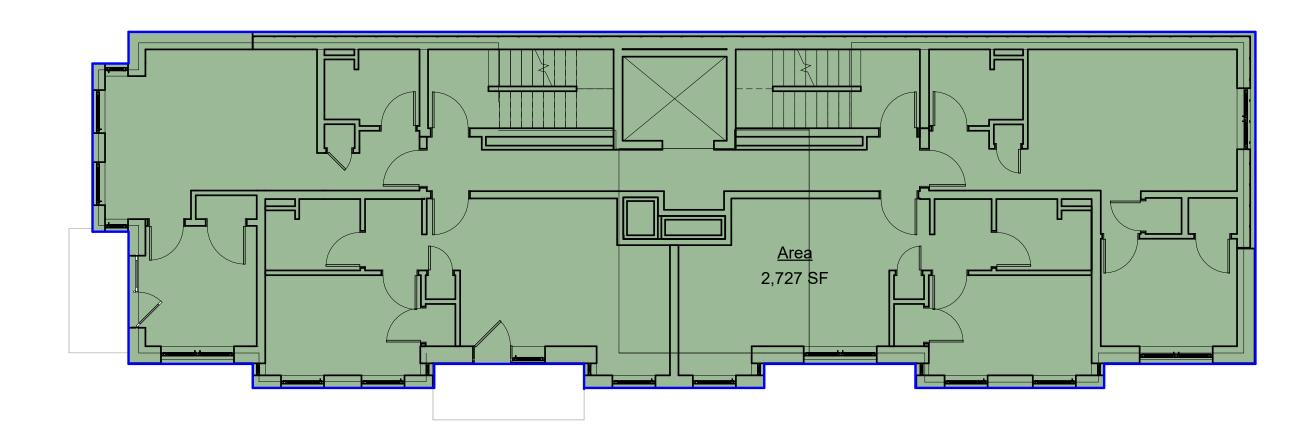
Project nu	ımber		25032
		07	7.30.2025
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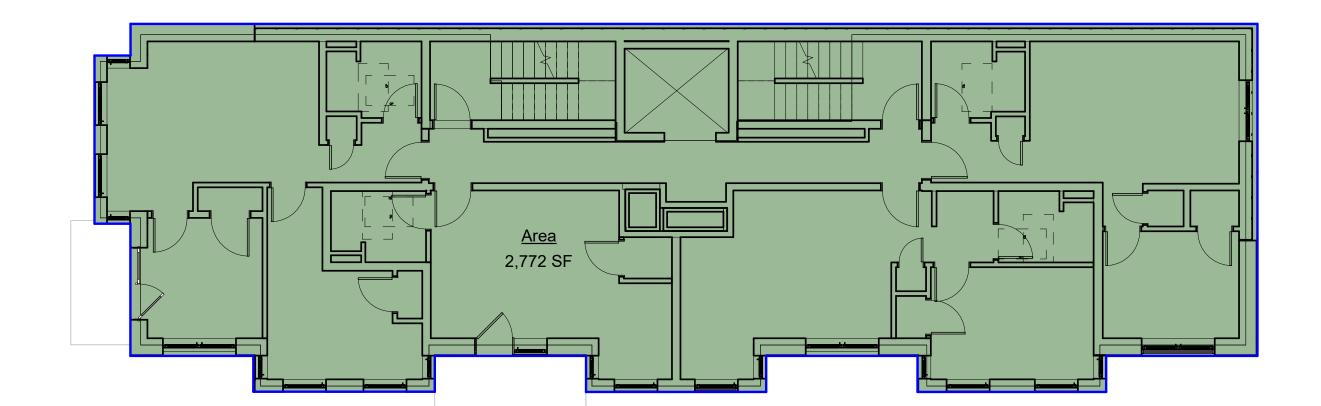




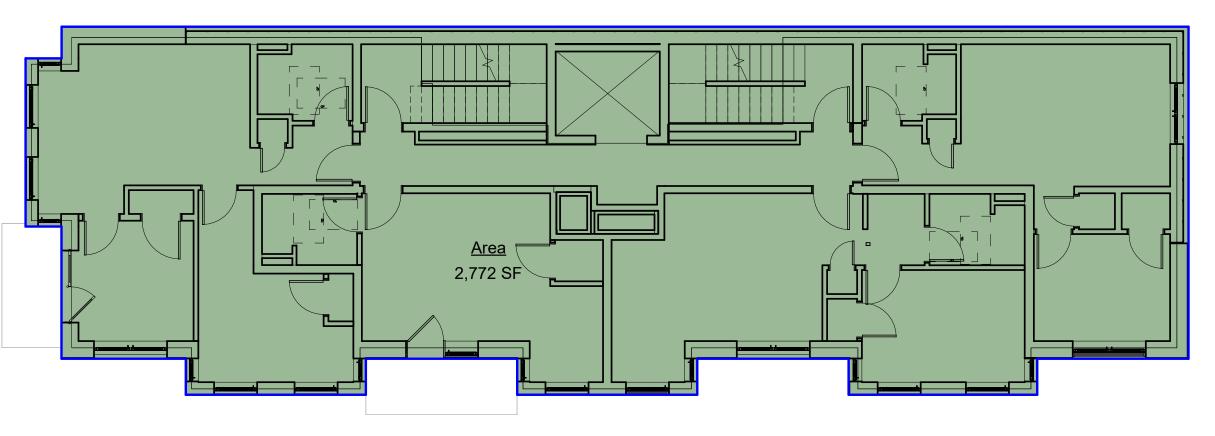
1 01 FIRST FLOOR 1/8" = 1'-0"



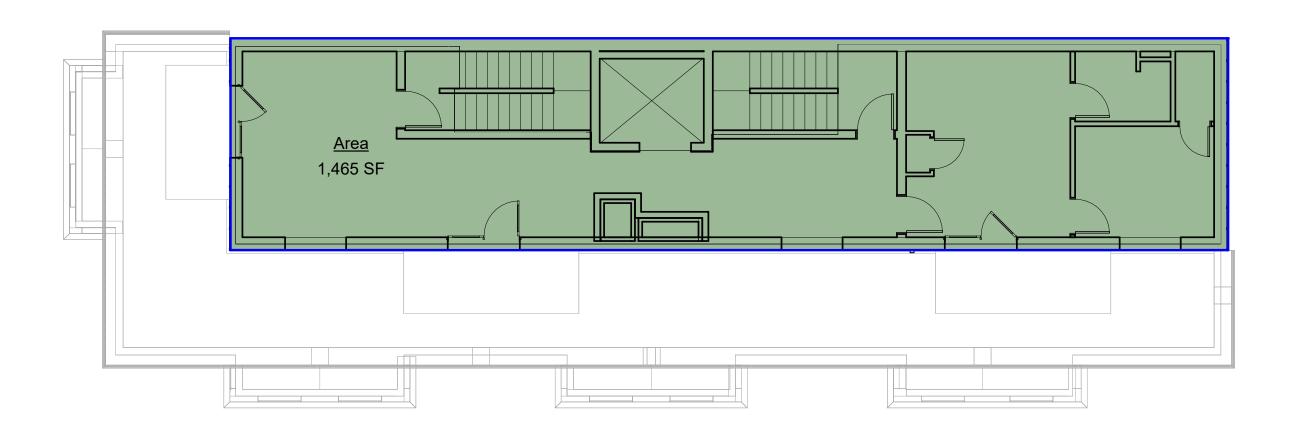
2 02 SECOND FLOOR 1/8" = 1'-0"



3 THIRD FLOOR 1/8" = 1'-0"



4 04 FOURTH FLOOR 1/8" = 1'-0"



5 05 FIFTH FLOOR 1/8" = 1'-0"

GROSS BUILDING AREA					
LEVEL	AREA				
01 FIRST FLOOR	2,579 SF				
02 SECOND FLOOR	2,727 SF				
03 THIRD FLOOR	2,772 SF				
04 FOURTH FLOOR	2,772 SF				
05 FIFTH FLOOR	1,465 SF				
Grand total: 5	12,316 SF				

PROJECT NAME

59 BOW STREET RESIDENCES

PROJECT ADDRESS

59 BOW STREET SOMERVILLE MA

CLIENT

SMT DEVELOPMENT

ARCHITECT



KHALSA DESIGN, INCORPORATED

17 IVALOO STREET SUITE 400 SOMERVILLE, MA 02143 TELEPHONE: 617-591-8682

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REGISTRATION



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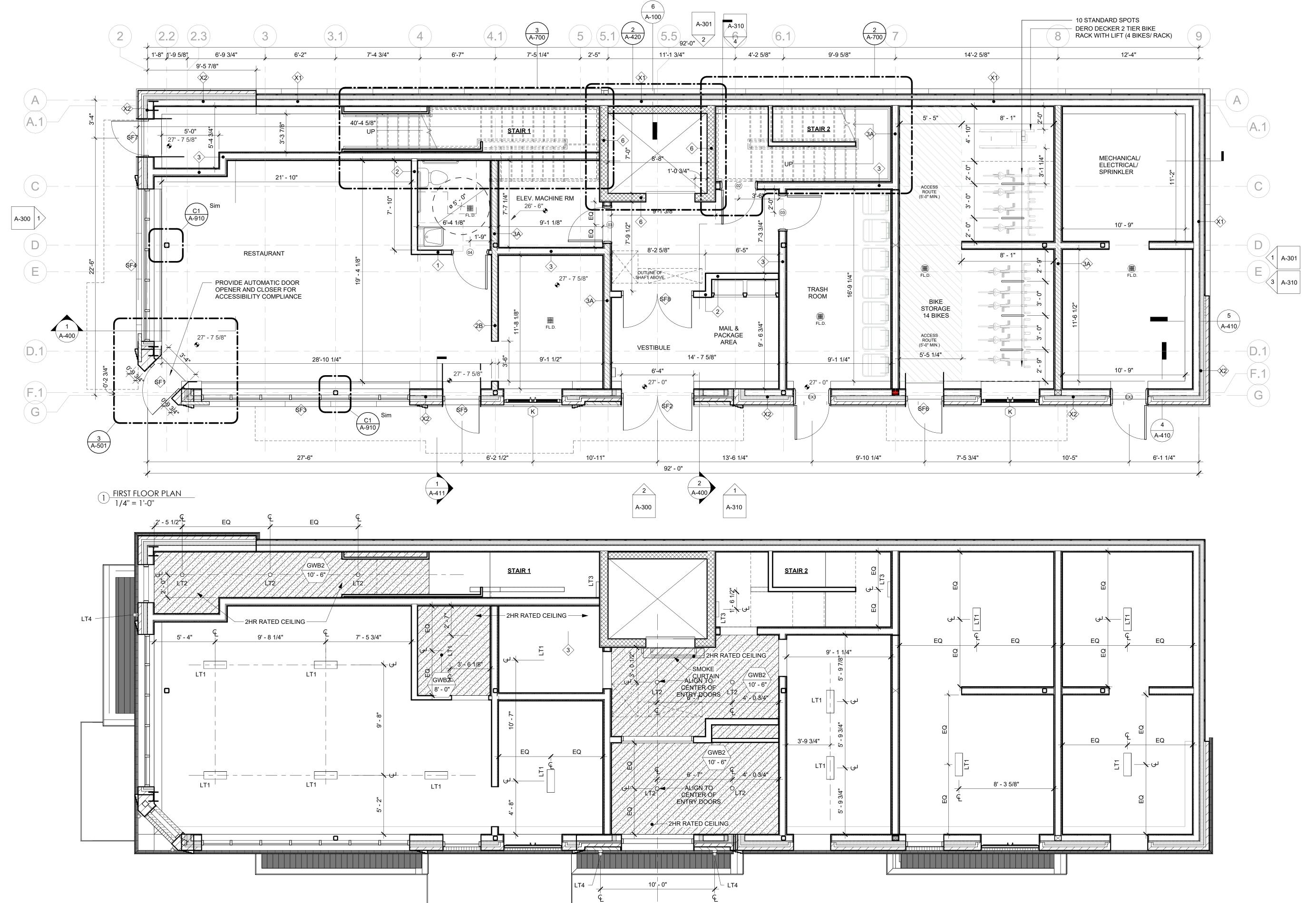
GROSS AREA PLANS

PROJECT ADDRESS

59 BOW STREET

RESIDENCES

59 BOW STREET



LIGHT FIXTURE LEGEND

LT3 CLOSET / STAIR LIGHT

LT4 EXTERIOR SCONCE

LT5 BATHROOM VANITY LIGHT

LT1 UTILITY LIGHT

LT2 DOWN LIGHT

FLOOR PLAN LEGEND

NEW WALL

WALL TYPE

FLOOR DRAIN

RCP LEGEND

RATING

BATHROOM FAN

2 HR FIRE RATED FLOOR / CEILING

SHEET A-911 FOR MORE INFORMATION

SOFFITS, 7' - 6" HEIGHT AND GWB CEILING ATTACHED TO JOIST ABOVE TO MAINTAIN FIRE

ASSEMBLY **F2**, SEE HORIZONTAL ASSEMBLIES

2 FIRST FLOOR RCP 1/4" = 1'-0"

GENERAL FLOOR PLAN NOTES

1. ALL SMOKE ALARMS TO BE INTERCONNECTED AND HARD

WIRED. SEE MEP SET FOR LOCATIONS. 2. FINAL KITCHEN LAYOUTS TO BE DETERMINED BY OWNER.

3. FINISHES TO BE DETERMINED BY OWNER AND INTERIOR DESIGNER. FINISHES WILL NEED TO BE REVIEWED BY LEED CONSULTANT FOR COMPLIANCE. SEE INTERIOR DESIGNER SET.

4. UNLESS OTHERWISE NOTED ALL INTERIOR WALL SHALL BE TYPE "1"

5. SEE A-910 FOR PARTITION TYPES.

CLADDING MATERIALS

7. SEE EXTERIOR ELEVATIONS FOR WINDOW TYPES &

6. MOISTURE RESISTANT GWB. TO BE USED IN ALL BATHROOMS AND KITCHENS.

9. ALL EXTERIOR DIMENSIONS ARE FROM EXTERIOR FACE OF WALL STUD, TYP., U.N.O.

8. ALL INTERIOR DIMENSIONS ARE FROM FACE OF GWB TO

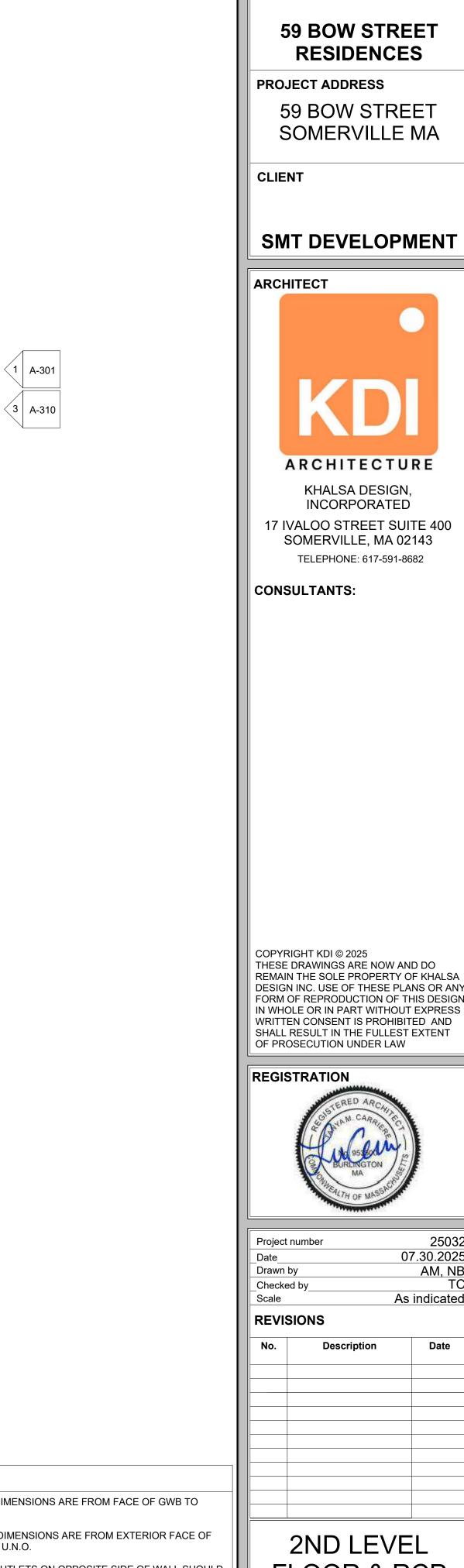
FACE GWB U.O.N.

10. ELECTRICAL OUTLETS ON OPPOSITE SIDE OF WALL SHOULD BE INSTALLED AT LEAST 2'-0" FROM EACH OTHER.

11. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO DEMOLITION & CONSTRUCTION.

12. SEE STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION & CIVIL PLAN FOR ADDITIONAL INFORMATION 14. UNLESS OTHERWISE NOTED CENTER CLOSET DOOR ON

1ST LEVEL FLOOR & RCP **PLANS**





1. ALL SMOKE ALARMS TO BE INTERCONNECTED AND HARD WIRED. SEE MEP SET FOR LOCATIONS.

2. FINAL KITCHEN LAYOUTS TO BE DETERMINED BY OWNER.

3. FINISHES TO BE DETERMINED BY OWNER AND INTERIOR DESIGNER. FINISHES WILL NEED TO BE REVIEWED BY LEED CONSULTANT FOR COMPLIANCE. SEE INTERIOR DESIGNER SET.

4. UNLESS OTHERWISE NOTED ALL INTERIOR WALL SHALL BE

5. SEE A-910 FOR PARTITION TYPES.

A-301

6' - 1 1/8"

27'-7 7/8"

6'-8 3/8"

A-300

LT2

LIGHT FIXTURE LEGEND

LT1 UTILITY LIGHT

LT2 DOWN LIGHT

LT3 CLOSET / STAIR LIGHT

EXTERIOR SCONCE

BATHROOM VANITY LIGHT

15' - 10 1/4"

3'-0"

LT2

2'-0"

[©] LT4

FLOOR PLAN LEGEND

NEW WALL

WALL TYPE

FLOOR DRAIN

EQ EQ

KITCHEN

UNIT 202

LIVING/ DINING

5'-1 1/4"

2'-10 5/8"

6' - 1 1/4"

3'-8"

STAIR 2

16' - 6 1/4"

EQ

RCP LEGEND

RATING

BATHROOM FAN

HATCH SHOWS 2HR FLOOR -CEILING

ASSEMBLY BELOW

KITCHEN

UNIT 203

LIVING / DINING

BATHROOM

14' - 3 5/8"

BEDROOM

13' - 6 5/8"

7'-4 1/8"

14'-8 1/8"

LT2

EQ

2 HR FIRE RATED FLOOR / CEILING ASSEMBLY **F2**, SEE HORIZONTAL ASSEMBLIES

SHEET A-911 FOR MORE INFORMATION

SOFFITS, 7' - 6" HEIGHT AND GWB CEILING ATTACHED TO JOIST ABOVE TO MAINTAIN FIRE

8' - 3 7/8"

3'-8"

17' - 5"

3'-4" 3'-0"

BEDROOM

11' - 4 1/8"

12'-1 1/4"

6'-5 3/4"

<u>4' - 0 5/8"</u>

5'-7 1/2"

4'-0"

2'-0"

UNIT 204

LIVING/ DINING

KITCHEN

1'-6 1/4"

1'-6 1/4"

BALCONY

A-300 1 >

KITCHEN

LIVING/ DINING

3' - 4 3/8" | 3' - 9 1/2"

UNIT 201

17' - 7 7/8"

BEDROOM

9'-11 3/4"

1 SECOND FLOOR PLAN
1/4" = 1'-0"

LT2

LT2

2 SECOND FLOOR RCP 1/4" = 1'-0"

4'-10 3/4"

14' - 3 1/2"

BEDROOM

6'-8 3/8"

14'-0 3/8"

3'-8"

-⊘-- |LT2

6. MOISTURE RESISTANT GWB. TO BE USED IN ALL BATHROOMS

7. SEE EXTERIOR ELEVATIONS FOR WINDOW TYPES & CLADDING MATERIALS

8. ALL INTERIOR DIMENSIONS ARE FROM FACE OF GWB TO FACE GWB U.O.N.

9. ALL EXTERIOR DIMENSIONS ARE FROM EXTERIOR FACE OF

10. ELECTRICAL OUTLETS ON OPPOSITE SIDE OF WALL SHOULD BE INSTALLED AT LEAST 2'-0" FROM EACH OTHER. 11. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO DEMOLITION & CONSTRUCTION.

12. SEE STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION & CIVIL PLAN FOR ADDITIONAL INFORMATION 14. UNLESS OTHERWISE NOTED CENTER CLOSET DOOR ON

FLOOR & RCP **PLANS**

PROJECT ADDRESS

CLIENT

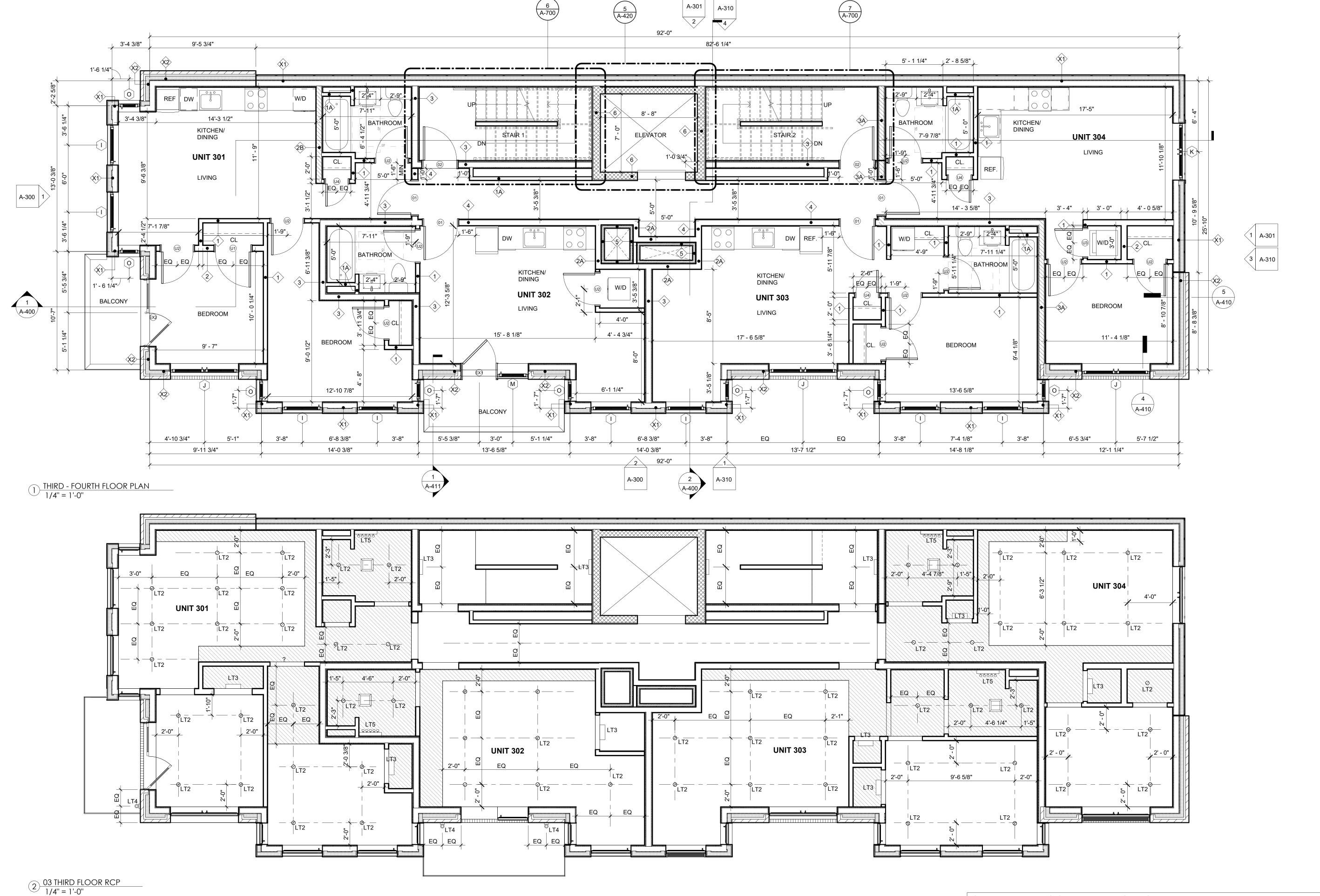
59 BOW STREET

RESIDENCES

59 BOW STREET

SOMERVILLE MA

SMT DEVELOPMENT



LIGHT FIXTURE LEGEND

LT3 CLOSET / STAIR LIGHT

EXTERIOR SCONCE

BATHROOM VANITY LIGHT

LT2 DOWN LIGHT

LT1 UTILITY LIGHT

FLOOR PLAN LEGEND

NEW WALL

WALL TYPE

FLOOR DRAIN

RCP LEGEND

RATING

BATHROOM FAN

2 HR FIRE RATED FLOOR / CEILING

SHEET A-911 FOR MORE INFORMATION

SOFFITS, 7' - 6" HEIGHT AND GWB CEILING ATTACHED TO JOIST ABOVE TO MAINTAIN FIRE

ASSEMBLY **F2**, SEE HORIZONTAL ASSEMBLIES

GENERAL FLOOR PLAN NOTES

1. ALL SMOKE ALARMS TO BE INTERCONNECTED AND HARD

WIRED. SEE MEP SET FOR LOCATIONS.

2. FINAL KITCHEN LAYOUTS TO BE DETERMINED BY OWNER.

3. FINISHES TO BE DETERMINED BY OWNER AND INTERIOR DESIGNER. FINISHES WILL NEED TO BE REVIEWED BY LEED

CONSULTANT FOR COMPLIANCE. SEE INTERIOR DESIGNER SET. 4. UNLESS OTHERWISE NOTED ALL INTERIOR WALL SHALL BE

5. SEE A-910 FOR PARTITION TYPES.

6. MOISTURE RESISTANT GWB. TO BE USED IN ALL BATHROOMS AND KITCHENS.

7. SEE EXTERIOR ELEVATIONS FOR WINDOW TYPES & CLADDING MATERIALS

8. ALL INTERIOR DIMENSIONS ARE FROM FACE OF GWB TO FACE GWB U.O.N.

9. ALL EXTERIOR DIMENSIONS ARE FROM EXTERIOR FACE OF WALL STUD, TYP., U.N.O.

10. ELECTRICAL OUTLETS ON OPPOSITE SIDE OF WALL SHOULD BE INSTALLED AT LEAST 2'-0" FROM EACH OTHER.

11. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO DEMOLITION & CONSTRUCTION.

FIRE PROTECTION & CIVIL PLAN FOR ADDITIONAL INFORMATION 14. UNLESS OTHERWISE NOTED CENTER CLOSET DOOR ON

12. SEE STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING,

3RD LEVEL FLOOR & RCP **PLANS**

PROJECT ADDRESS

CLIENT

59 BOW STREET

RESIDENCES

59 BOW STREET

SOMERVILLE MA



LIGHT FIXTURE LEGEND

LT3 CLOSET / STAIR LIGHT

LT4 EXTERIOR SCONCE

LT5 BATHROOM VANITY LIGHT

LT2 DOWN LIGHT

LT1 UTILITY LIGHT

FLOOR PLAN LEGEND

NEW WALL

WALL TYPE

FLOOR DRAIN

RCP LEGEND

RATING

BATHROOM FAN

2 HR FIRE RATED FLOOR / CEILING

SHEET A-911 FOR MORE INFORMATION

SOFFITS, 7' - 6" HEIGHT AND GWB CEILING ATTACHED TO JOIST ABOVE TO MAINTAIN FIRE

ASSEMBLY **F2**, SEE HORIZONTAL ASSEMBLIES

2 04 FOURTH FLOOR 1/4" = 1'-0"

GENERAL FLOOR PLAN NOTES

1. ALL SMOKE ALARMS TO BE INTERCONNECTED AND HARD

WIRED. SEE MEP SET FOR LOCATIONS. 2. FINAL KITCHEN LAYOUTS TO BE DETERMINED BY OWNER.

3. FINISHES TO BE DETERMINED BY OWNER AND INTERIOR DESIGNER. FINISHES WILL NEED TO BE REVIEWED BY LEED CONSULTANT FOR COMPLIANCE. SEE INTERIOR DESIGNER SET.

4. UNLESS OTHERWISE NOTED ALL INTERIOR WALL SHALL BE

5. SEE A-910 FOR PARTITION TYPES.

7. SEE EXTERIOR ELEVATIONS FOR WINDOW TYPES & CLADDING MATERIALS

6. MOISTURE RESISTANT GWB. TO BE USED IN ALL BATHROOMS AND KITCHENS.

8. ALL INTERIOR DIMENSIONS ARE FROM FACE OF GWB TO FACE GWB U.O.N.

9. ALL EXTERIOR DIMENSIONS ARE FROM EXTERIOR FACE OF WALL STUD, TYP., U.N.O.

10. ELECTRICAL OUTLETS ON OPPOSITE SIDE OF WALL SHOULD BE INSTALLED AT LEAST 2'-0" FROM EACH OTHER.

11. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE FIELD PRIOR TO DEMOLITION & CONSTRUCTION.

12. SEE STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION & CIVIL PLAN FOR ADDITIONAL INFORMATION 14. UNLESS OTHERWISE NOTED CENTER CLOSET DOOR ON

4TH LEVEL FLOOR & RCP

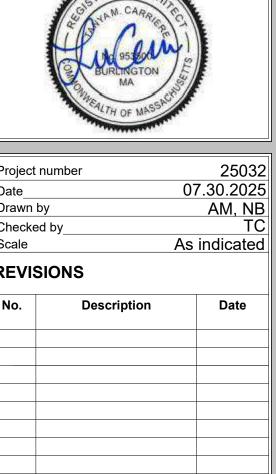
59 BOW STREET RESIDENCES

PLANS

PROJECT ADDRESS

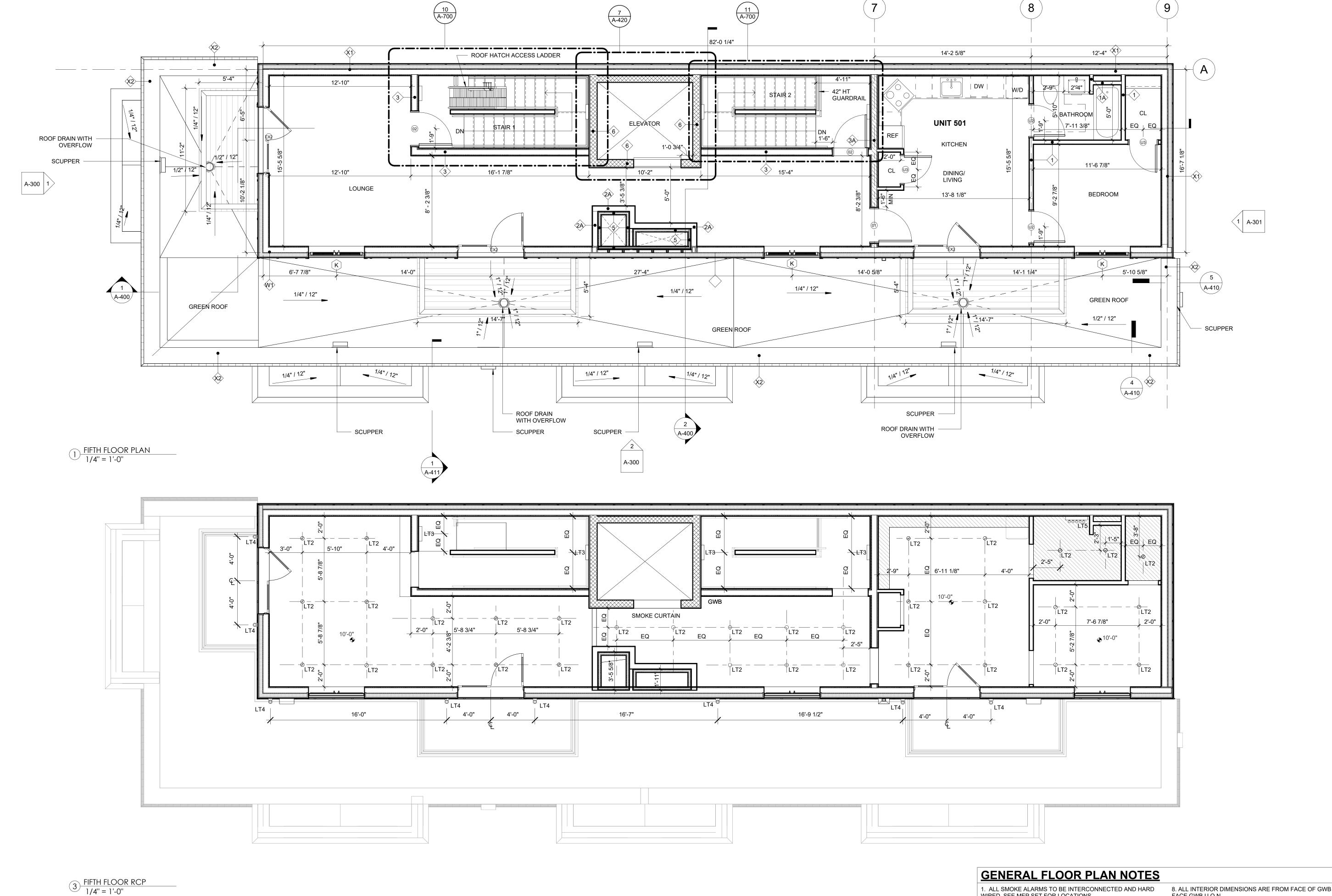
59 BOW STREET

RESIDENCES



5TH LEVEL FLOOR & RCP **PLANS**

59 BOW STREET RESIDENCES



		LIGHT FIXTURE LEGEND			RCP LE	GEND	
FLOOR PLA	N LEGEND		LT1	UTILITY LIGHT		2 HR FIRE RATED FLOOR / CEILING ASSEMBLY F2 , SEE HORIZONTAL ASSEMBLIES SHEET A-911 FOR MORE INFORMATION]]]] (
	NEW WALL	0	LT2	DOWN LIGHT			4
\(\hat{\times}\)	WALL TYPE		LT3	CLOSET / STAIR LIGHT		SOFFITS, 7' - 6" HEIGHT AND GWB CEILING ATTACHED TO JOIST ABOVE TO MAINTAIN FIRE RATING	E
FL.D	FLOOR DRAIN	6	LT4	EXTERIOR SCONCE			6
. 2.0						BATHROOM FAN	ıl

LT5 BATHROOM VANITY LIGHT

1. ALL SMOKE ALARMS TO BE INTERCONNECTED AND HARD WIRED. SEE MEP SET FOR LOCATIONS.

2. FINAL KITCHEN LAYOUTS TO BE DETERMINED BY OWNER.

9. ALL EXTERIOR DIMENSIONS ARE FROM EXTERIOR FACE OF WALL STUD, TYP., U.N.O. 3. FINISHES TO BE DETERMINED BY OWNER AND INTERIOR 10. ELECTRICAL OUTLETS ON OPPOSITE SIDE OF WALL SHOULD DESIGNER. FINISHES WILL NEED TO BE REVIEWED BY LEED BE INSTALLED AT LEAST 2'-0" FROM EACH OTHER. CONSULTANT FOR COMPLIANCE. SEE INTERIOR DESIGNER SET. 11. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE 4. UNLESS OTHERWISE NOTED ALL INTERIOR WALL SHALL BE

TYPE "1" FIELD PRIOR TO DEMOLITION & CONSTRUCTION. 5. SEE A-910 FOR PARTITION TYPES. 12. SEE STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING,

6. MOISTURE RESISTANT GWB. TO BE USED IN ALL BATHROOMS AND KITCHENS.

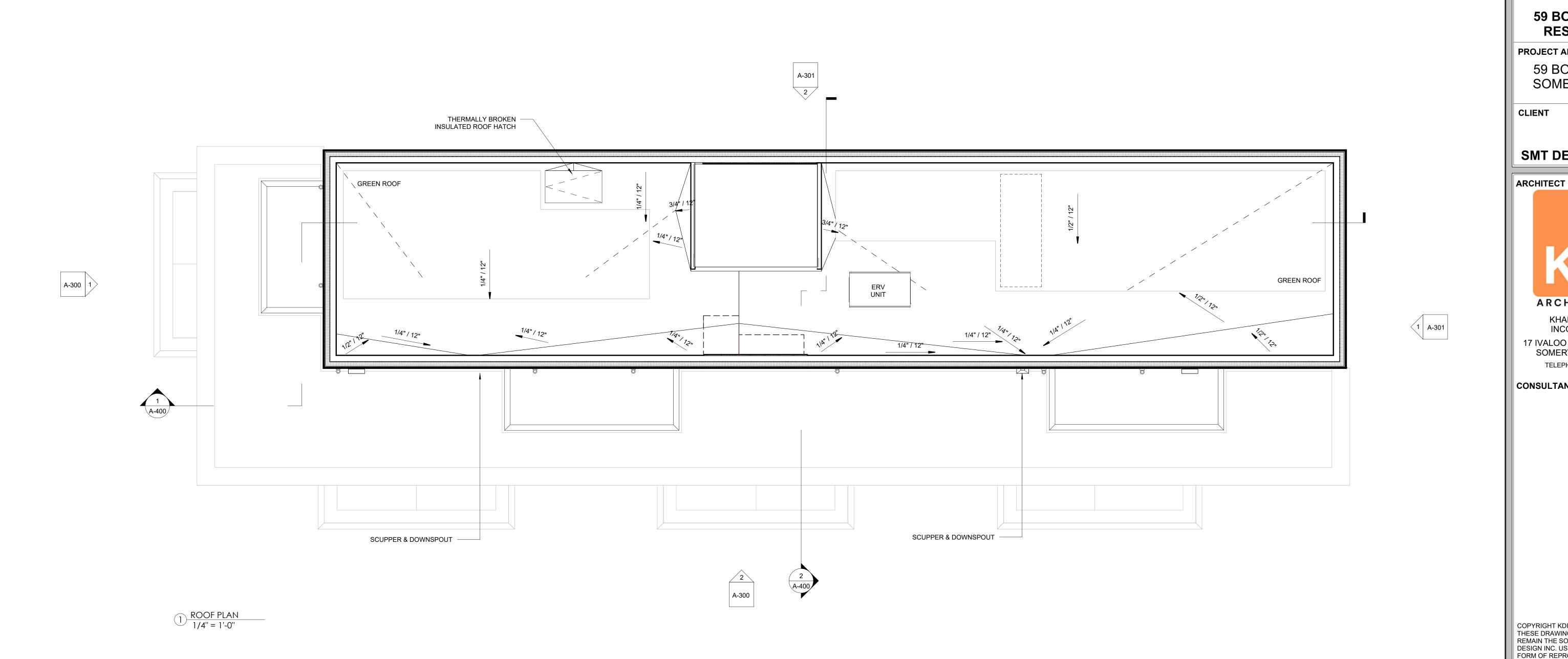
7. SEE EXTERIOR ELEVATIONS FOR WINDOW TYPES & CLADDING MATERIALS

FIRE PROTECTION & CIVIL PLAN FOR ADDITIONAL INFORMATION 14. UNLESS OTHERWISE NOTED CENTER CLOSET DOOR ON

8. ALL INTERIOR DIMENSIONS ARE FROM FACE OF GWB TO

FACE GWB U.O.N.





GENERAL FLOOR PLAN NOTES

1. ALL SMOKE ALARMS TO BE INTERCONNECTED AND HARD

WIRED. SEE MEP SET FOR LOCATIONS.

2. FINAL KITCHEN LAYOUTS TO BE DETERMINED BY OWNER. 3. FINISHES TO BE DETERMINED BY OWNER AND INTERIOR 4. UNLESS OTHERWISE NOTED ALL INTERIOR WALL SHALL BE TYPE "1"

5. SEE A-910 FOR PARTITION TYPES.

FLOOR PLAN LEGEND

FL.D

WALL TYPE

FLOOR DRAIN

6. MOISTURE RESISTANT GWB. TO BE USED IN ALL BATHROOMS AND KITCHENS.

7. SEE EXTERIOR ELEVATIONS FOR WINDOW TYPES & CLADDING MATERIALS

8. ALL INTERIOR DIMENSIONS ARE FROM FACE OF GWB TO

FACE GWB U.O.N. 9. ALL EXTERIOR DIMENSIONS ARE FROM EXTERIOR FACE OF WALL STUD, TYP., U.N.O.

DESIGNER. FINISHES WILL NEED TO BE REVIEWED BY LEED

CONSULTANT FOR COMPLIANCE. SEE INTERIOR DESIGNER SET.

10. ELECTRICAL OUTLETS ON OPPOSITE SIDE OF WALL SHOULD
BE INSTALLED AT LEAST 2'-0" FROM EACH OTHER. 11. CONTRACTOR TO VERIFY EXISTING CONDITIONS IN THE

FIELD PRIOR TO DEMOLITION & CONSTRUCTION. 12. SEE STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION & CIVIL PLAN FOR ADDITIONAL INFORMATION

PROJECT NAME

PROJECT ADDRESS

CLIENT

59 BOW STREET

RESIDENCES

59 BOW STREET

SOMERVILLE MA

SMT DEVELOPMENT

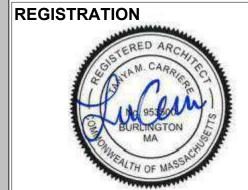
ARCHITECTURE

KHALSA DESIGN, INCORPORATED 17 IVALOO STREET SUITE 400

SOMERVILLE, MA 02143 TELEPHONE: 617-591-8682

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Date		07.30.2025
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No.	Description	Date

ROOF PLAN

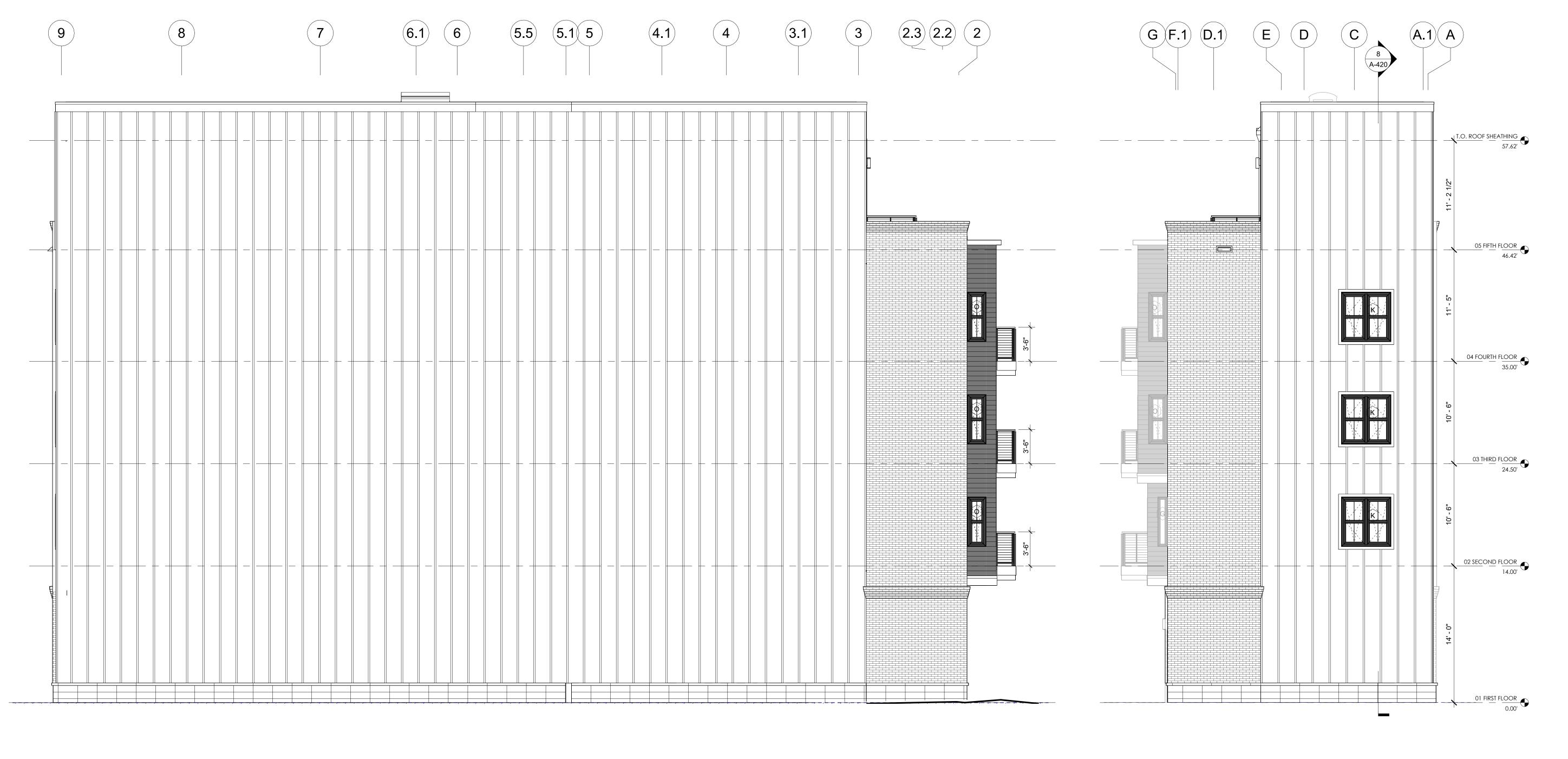
A-106 59 BOW STREET RESIDENCES

14. UNLESS OTHERWISE NOTED CENTER CLOSET DOOR ON

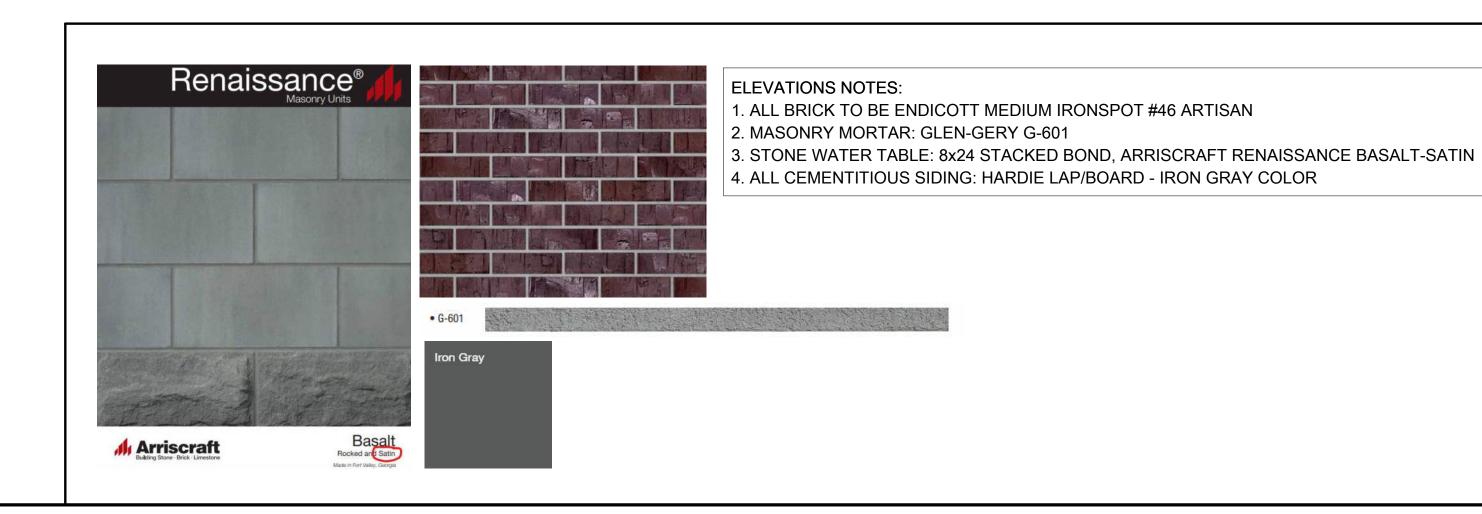


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 $2 \frac{\text{KDI - ELEVATION - SIDE}}{3/16" = 1'-0"}$



PROJECT NAME

59 BOW STREET RESIDENCES

PROJECT ADDRESS

59 BOW STREET SOMERVILLE MA

CLIENT

SMT DEVELOPMENT

ARCHITECTURE

KHALSA DESIGN, INCORPORATED 17 IVALOO STREET SUITE 400 SOMERVILLE, MA 02143 TELEPHONE: 617-591-8682

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Scale	3/16" = 1'-0"
DEVISIONS	

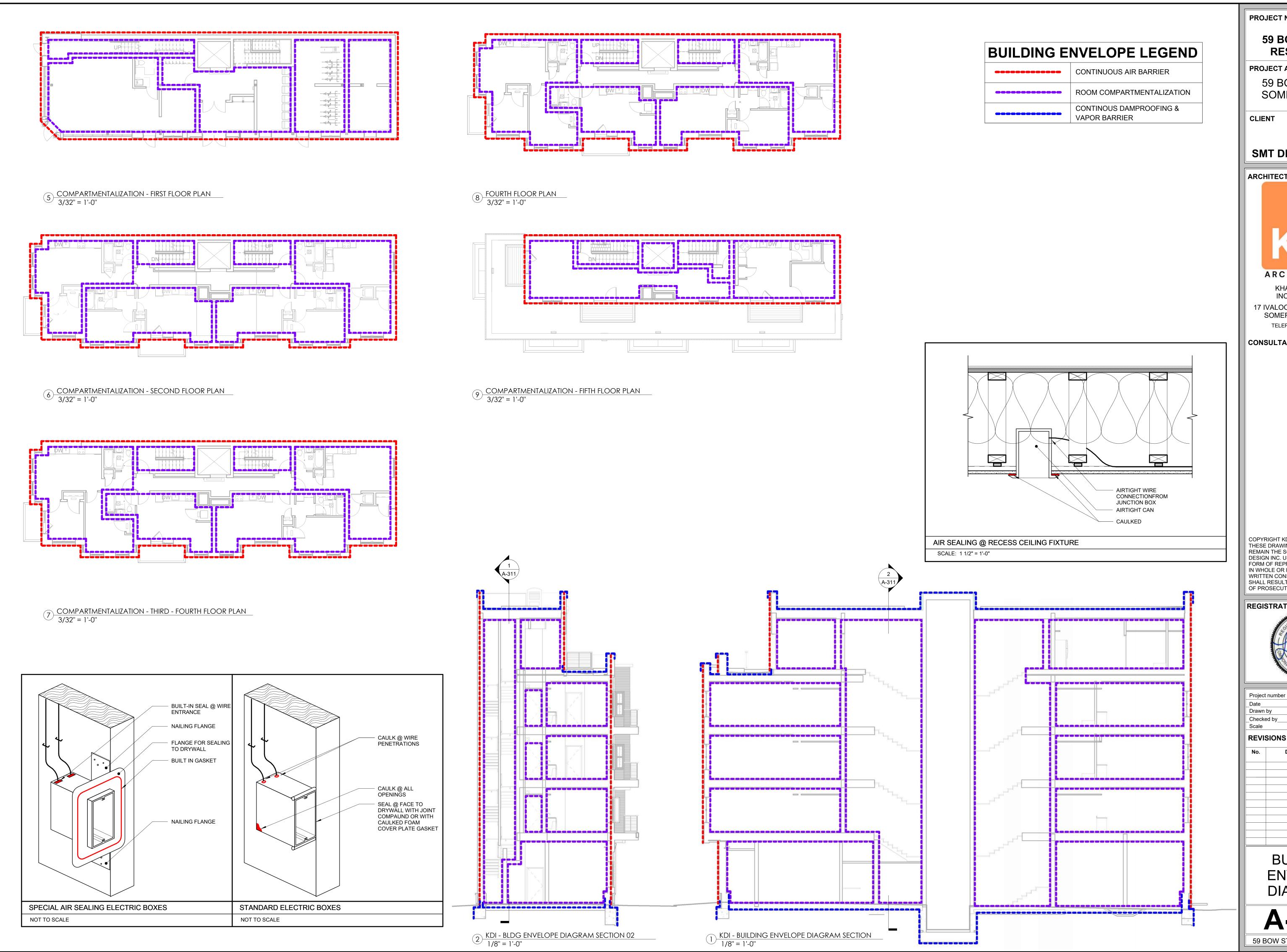
REVISIONS

No.	Description	Date
		-

REAR & LEFT ELEVATIONS

A-301
59 BOW STREET RESIDENCES

7/30/2025 11:28:33 AM



59 BOW STREET RESIDENCES

PROJECT ADDRESS

59 BOW STREET SOMERVILLE MA

CLIENT

SMT DEVELOPMENT

ARCHITECT



KHALSA DESIGN,

INCORPORATED 17 IVALOO STREET SUITE 400 SOMERVILLE, MA 02143 TELEPHONE: 617-591-8682

CONSULTANTS:

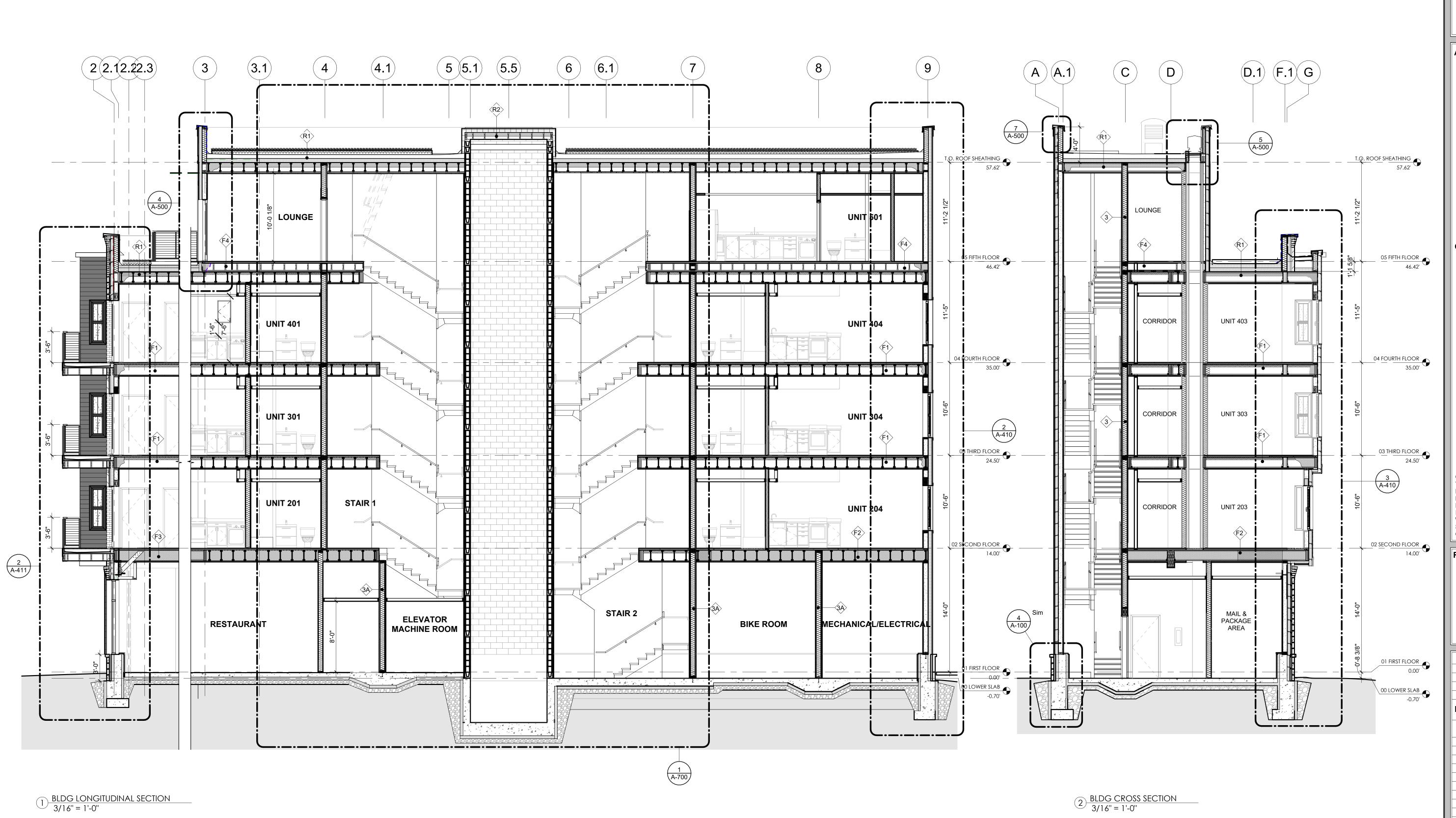
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Date		07.30.2025		
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REVISI	ONS			
No.	Description		Date	

BUILDING **ENVELOPE** DIAGRAMS



59 BOW STREET RESIDENCES

PROJECT ADDRESS

WINDOW SILL @ HARDI PLANK SIDING

9 STOREFRONT SILL 1 1/2" = 1'-0"

(TYP. ON ALL EXT. WALLS)

CONT. AIR & WATER BARRIER (TYP.)

1 3/4" AIR CAVITY

WINDOW SILL @ BRICK SIDING

PROJECT NAME 59 BOW STREET

PROJECT ADDRESS

59 BOW STREET SOMERVILLE MA

RESIDENCES

CLIENT

ARCHITECT

SMT DEVELOPMENT

ARCHITECTURE

KHALSA DESIGN,

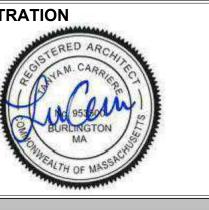
INCORPORATED 17 IVALOO STREET SUITE 400 SOMERVILLE, MA 02143 TELEPHONE: 617-591-8682

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REGISTRATION

GYPSUM BOARD

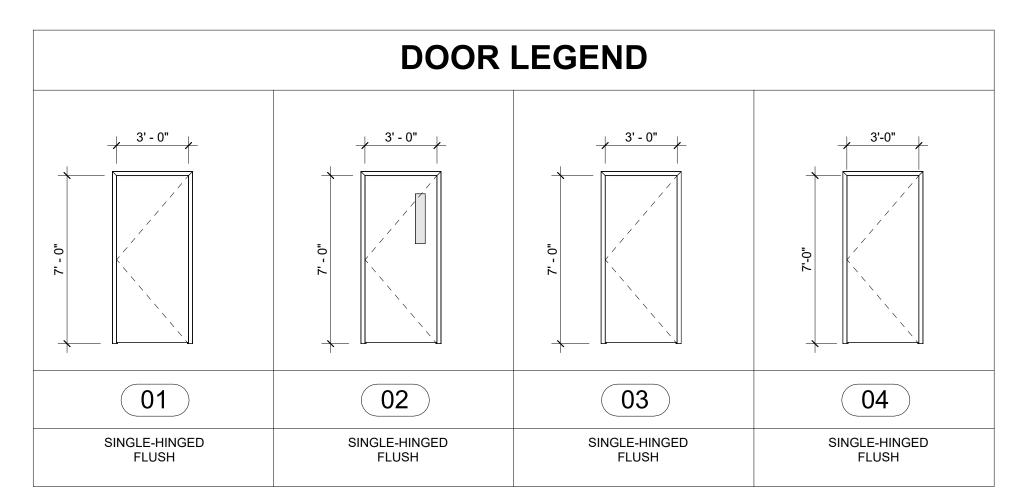


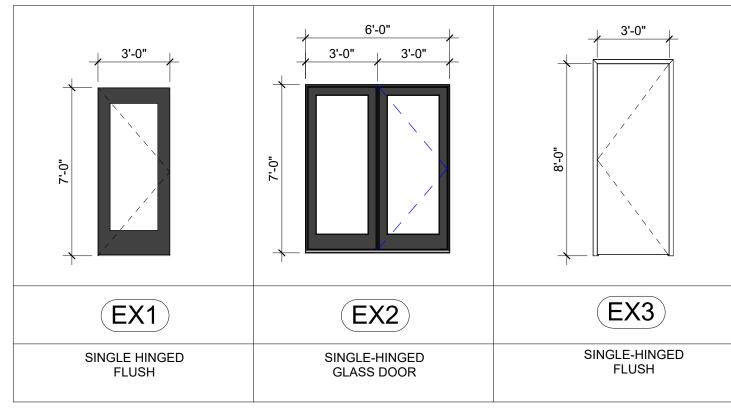
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Scale		As indicate	ed	
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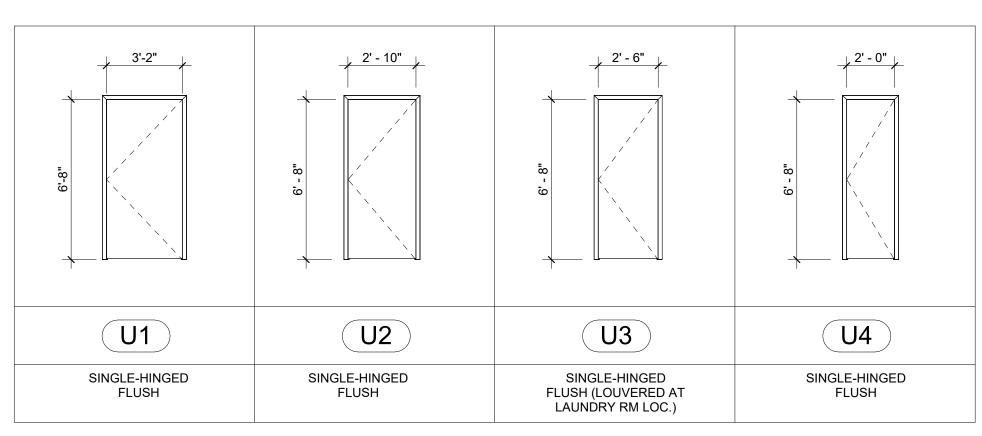
STOREFRONT & WINDOW **DETAILS**

DOOR NOTES

- 1. VERIFY INTERIOR DOOR STYLE WITH OWNER PRIOR TO ORDERING.
- 2. PROVIDE TRIM/CASING AROUND INTERIOR DOORS. STYLE TBD BY OWNER. 3. POCKET DOOR TO HAVE APPROVED SLIDING DOOR HARDWARE TO ENSURE STRENGTH AND STABILITY OF DOOR.
- 4. DOOR THICKNESS OF ALL DOORS TO BE 1-3/4" UNLESS OTHERWISE NOTED.
- 5. TOPS AND BOTTOMS OF ALL HOLLOW METAL DOORS EXPOSED TO WEATHER SHALL BE PAINTED.
- 6. SAFETY GLASS WHERE REQUIRED BY CODE. 7. DOOR HARDWARE TO BE CENTERED ON RAIL OF PANEL DOORS.
- 8. ALL FIRE RATED DOORS TO HAVE SMOKE SEAL, CLOSER AND LATCHING HARDWARE. 9. INSTALL PANIC EXIT HARDWARE WHERE REQUIRED.
- 10.EXTERIOR PATIO DOORS TO HAVE CLEAR OPENING OF 32" AND ADA COMPLIANT THRESHOLD.
- 11. REFER TO PLANS FOR DOOR SWING DIRECTION.







	KDI - WINDOW SCHEDULE							
		ROUGH	H OPENING			DETAILS		
MARK	STYLE	Width	Height	MATERIAL	SILL	JAMB	HEAD	COMMENTS
		·						
G	FIXED	0' - 11"	5' - 0"	POLYMER	4/A-900	5/A-900	6/A-900	
I	TILT & TURN	3' - 6"	5' - 0"	POLYMER	4/A-900	5/A-900	6/A-900	
J	TILT & TURN	6' - 0"	5' - 0"	POLYMER	1/A-900	2/A-900	3/A-900	
K	TILT & TURN	5' - 0"	5' - 0"	POLYMER	1 & 4/A-900	2 & 5/A-900	3 & 6/A-900	
М	TILT & TURN	2' - 8"	5' - 0"	POLYMER	1/A-900	2/A-900	3/A-900	
0	TILT & TURN	1' - 10"	5' - 0"	POLYMER	4/A-900	5/A-900	6/A-900	

WINDOW NOTES

- 1. WINDOW STYLE TO MATCH AS PER ELEVATION 2. BASE OF DESIGN (B.O.D.) INTUS SUPERA PASSIVE HOUSE POLYMER WINDOWS 3. WINDOW FRAME AND SASH TO BE BLACK, TYP. OR AS APPROVED BY PLANNING DEPT. 4. ALL WINDOWS TO HAVE HEADERS AS PER STRUCTURAL ENGINEER. 5. CONTRACTOR TO REVIEW EGRESS OPENING REQUIREMENTS PRIOR TO ORDERING
- 6. 2. ALL WINDOWS TO HAVE OPENING CONTROL DEVICE TO COMPLY TO IBC 2021 SECTION 1015.8.
 - 1015.8 Window Openings Windows in Group R-2 and R-3 buildings including dwelling units, where the bottom of the clear opening of an operable window is located less than 36 inches (914 mm) above the finished floor and more than 72 inches (1829 mm) above the
 - finished grade or other surface below on the exterior of the building, shall comply with one of the following: 1. Operable windows where the top of the sill of the opening is located more than 75 feet (22 860 mm) above the finished grade or other surface
 - below and that are provided with window fall prevention devices that comply with ASTM F2006. 2. Operable windows where the openings will not allow a 4-inch-diameter
 - (102 mm) sphere to pass through the opening when the window is in its largest opened position.
 - 3. Operable windows where the openings are provided with window fall prevention devices that comply with ASTM F2090. 4. Operable windows that are provided with window opening control devices that comply with Section 1015.8.1.
 - 1015.8.1 Window Opening Control Devices Window opening control devices shall comply with ASTM F2090. The window opening control device, after operation to release the control device allowing the window to fully open, shall not reduce the minimum net clear opening area of the window unit to less than the area required by Section 1031.3.1.3.
- 7. TEMPERED GLASS ON ALL STAIR, BATHROOM AND KITCHEN LOCATIONS 8. ALL WINDOWS TO HAVE INSECT SCREENS. 9. USE MANUFACTURER SPEC'S AND INSTALLATION MANUAL FOR ALL WINDOWS. 10. PROVIDE SHOP DRAWINGS BEFORE ORDERING FOR APPROVAL.

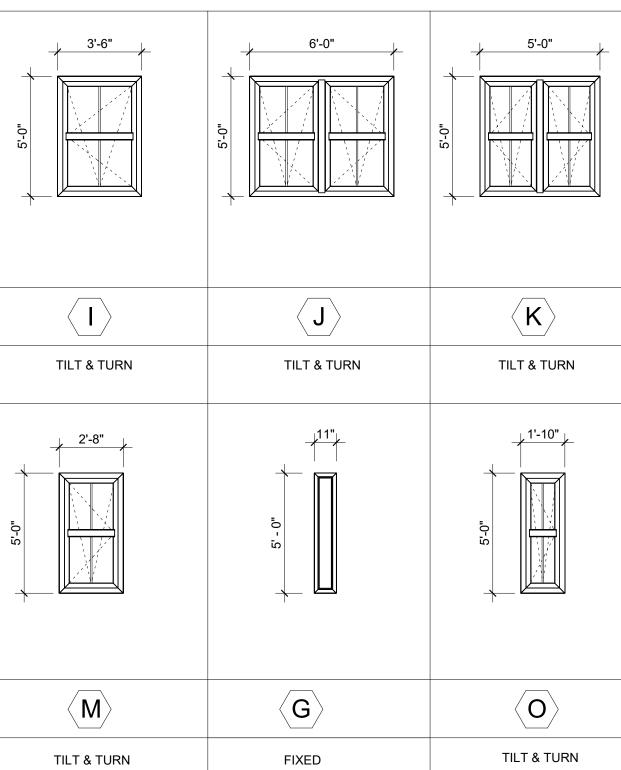
WINDOWS PERFORMANCE DATA (MIN.) CENTER GLASS:

SHGC: U-VALUE: 0.10

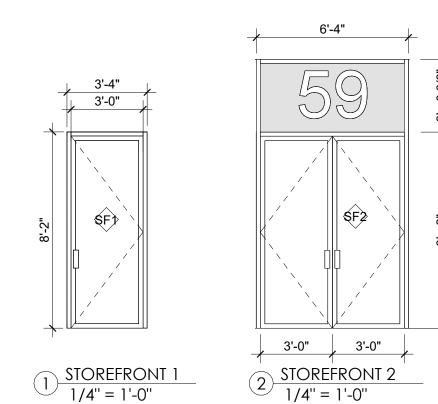
WHOLE WINDOW:

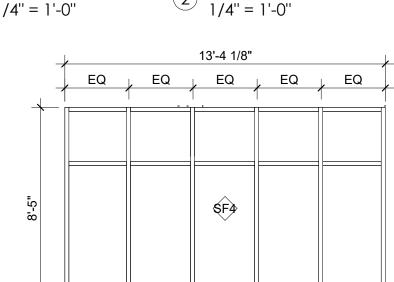
0.12 (OPERABLE) & 0.19 (FIXED) 0.17 (OPERABLE) & 0.13 (FIXED) U-VALUE:

WINDOW LEGEND 3'-6" TILT & TURN TILT & TURN TILT & TURN



STOREFRONT LEGEND

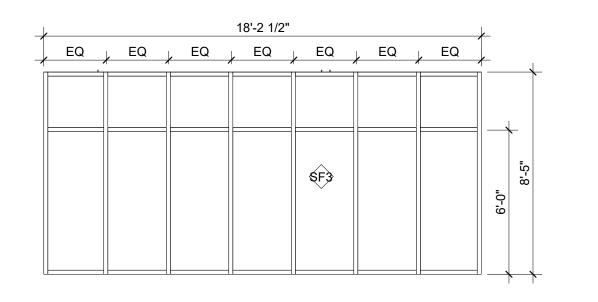


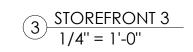


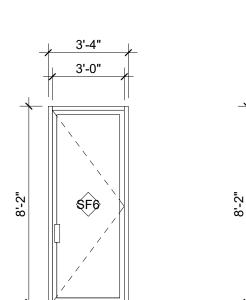
4 STOREFRONT 4 1/4" = 1'-0"

STOREFRONTS NOTES: 1) ALL EXTERIOR STOREFRONTS TO BE THERMALLY BROKEN.

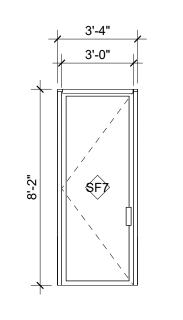
2) BASE OF DESIGN: KAWNEER 1600UT 3) STOREFRONT WINDOW PERFORMANCE DATA (MIN.) CENTER GLASS: SHGC: 0.33 U-VALUE: 0.11 WHOLE ASSEMBLY: SHGC: 0.29 U-VALUE: 0.20 STOREFRONT DOOR PERFORMANCE DATA (MIN.) CENTER GLASS: SHGC: 0.29 U-VALUE: 0.14 WHOLE ASSEMBLY: SHGC: 0.15 U-VALUE: 0.45



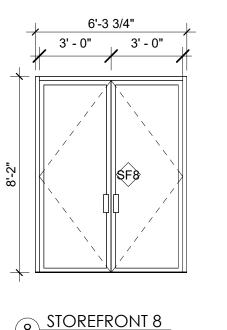




6 STOREFRONT 6 1/4" = 1'-0"



7 STOREFRONT 7 1/4" = 1'-0"



SF5

5 STOREFRONT 5 1/4" = 1'-0"

8 STOREFRONT 8 1/4" = 1'-0"

WINDOW & DOOR **SCHEDULES**

PROJECT NAME

PROJECT ADDRESS

CLIENT

ARCHITECT

59 BOW STREET

RESIDENCES

59 BOW STREET

SOMERVILLE MA

SMT DEVELOPMENT

ARCHITECTURE

KHALSA DESIGN,

INCORPORATED

17 IVALOO STREET SUITE 400

SOMERVILLE, MA 02143

TELEPHONE: 617-591-8682

CONSULTANTS:

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OF PROSECUTION UNDER LAW

REGISTRATION

Project number

Checked by

REVISIONS

Description

Date Drawn by

IN WHOLE OR IN PART WITHOUT EXPRESS WRITTEN CONSENT IS PROHIBITED AND SHALL RESULT IN THE FULLEST EXTENT

59 BOW STREET RESIDENCES

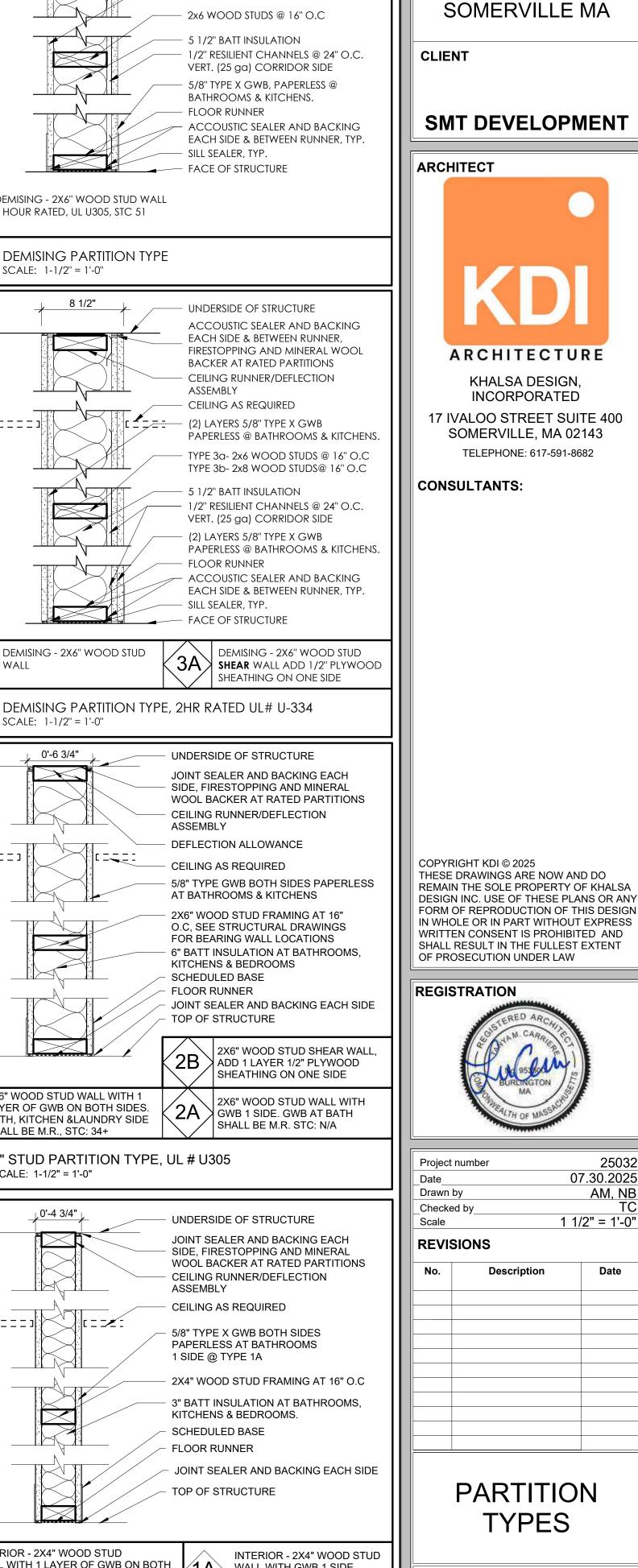
25032

07.30.2025

1/4" = 1'-0"

AM, NB

Date

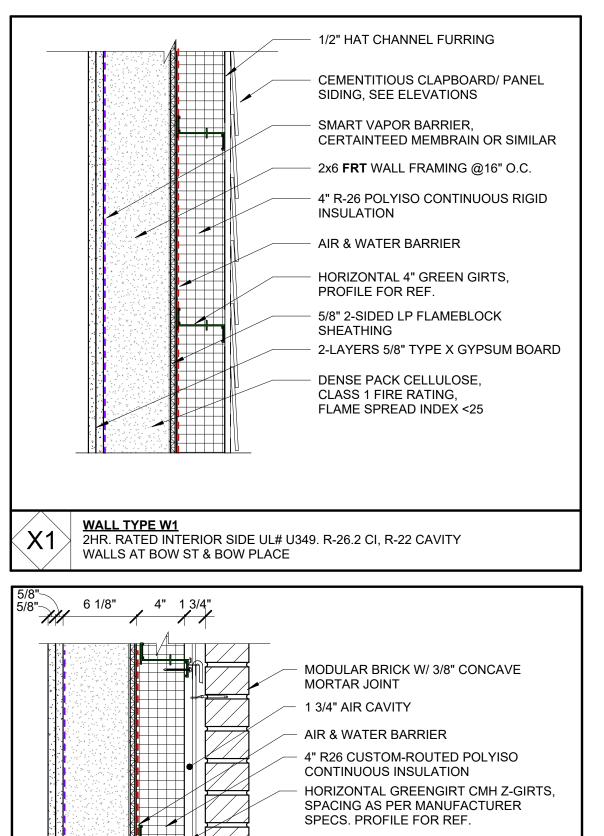


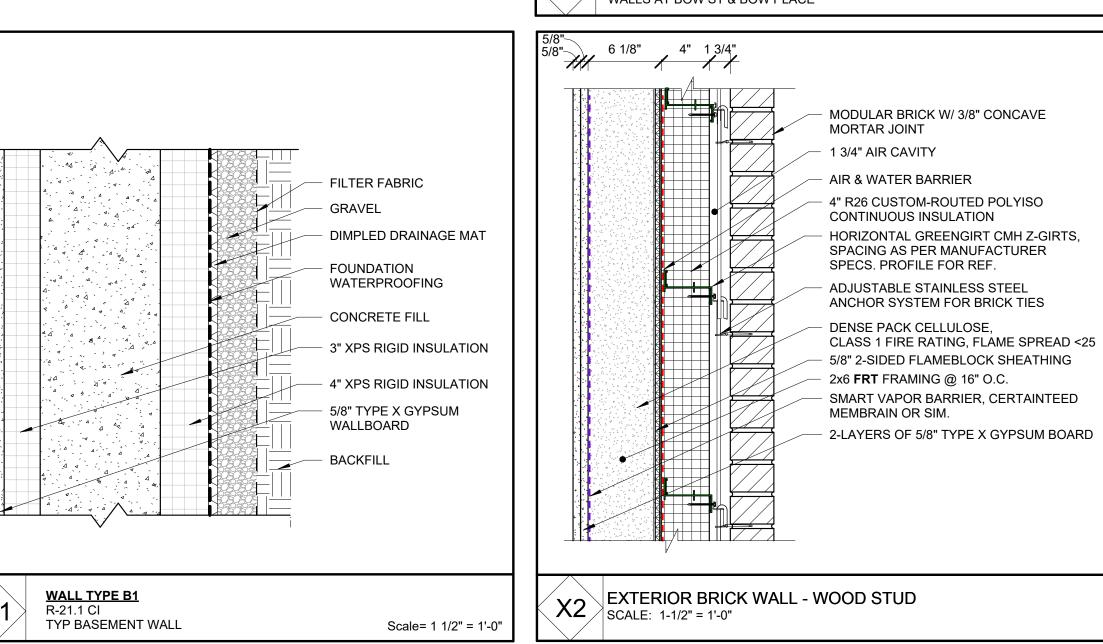
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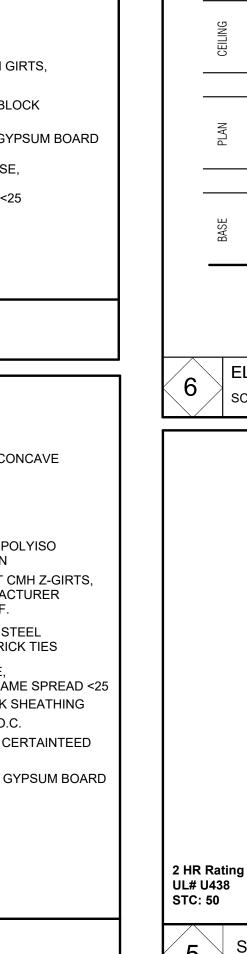
59 BOW STREET

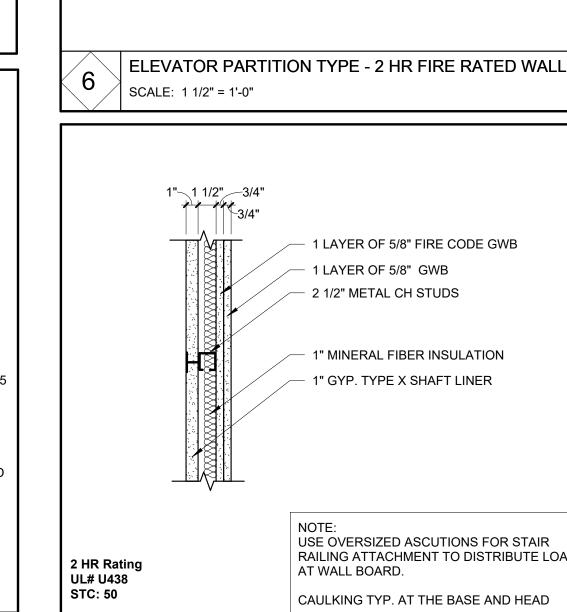
RESIDENCES

59 BOW STREET









1" MINERAL FIBER INSULATION — 1" GYP. TYPE X SHAFT LINER USE OVERSIZED ASCUTIONS FOR STAIR RAILING ATTACHMENT TO DISTRIBUTE LOAD

UNDERSIDE OF STRUCTURE

ANGLES BOTH SIDES

COMPRESSIBLE FILLER

DEFLECTION ALLOWANCE

CEILING AS REQUIRED

CONCRETE MASONRY UNITS

4" HIGH CONCRETE MASONRY UNITS STARTER COURSE, IF APPLICABLE

7/8" HAT CHANNEL

- 5/8" TYPE X GWB

TOP OF STRUCTURE

MORTAR

STAGGERED STEEL RESTRAINT

SHAFT WALL - 2HR FIRE RATED SCALE: 1-1/2" = 1'-0"

CAULKING TYP. AT THE BASE AND HEAD

INTERIOR - 2X4" WOOD STUD WALL WITH 1 LAYER OF GWB ON BOTH SIDES. BATH, KITCHEN & LAUNDRY SIDE SHALL BE M.R. TYPICAL 2X4" STUD PARTITION TYPE SCALE: 1-1/2" = 1'-0"

WALL WITH GWB 1 SIDE.
GWB AT BATH SHALL BE M.R.

UNDERSIDE OF STRUCTURE

ACCOUSTIC SEALER AND BACKING EACH SIDE & BETWEEN RUNNER, FIRESTOPPING AND MINERAL WOOL

BACKER AT RATED PARTITIONS

5/8" TYPE X GWB PAPERLESS @

BATHROOMS & KITCHENS.

- CEILING RUNNER/DEFLECTION

CEILING AS REQUIRED

ASSEMBLY

- FLOOR RUNNER

- SILL SEALER, TYP.

ASSEMBLY

- FLOOR RUNNER

- SILL SEALER, TYP. — FACE OF STRUCTURE

ASSEMBLY

CEILING AS REQUIRED

SCHEDULED BASE

TOP OF STRUCTURE

FLOOR RUNNER

ASSEMBLY

CEILING AS REQUIRED

1 SIDE @ TYPE 1A

SCHEDULED BASE

TOP OF STRUCTURE

FLOOR RUNNER

FACE OF STRUCTURE

DEMISING - 2X6" WOOD STUD WALL 1 HOUR RATED, UL U305, STC 51

SCALE: 1-1/2" = 1'-0"

====計

DEMISING PARTITION TYPE

DEMISING - 2X6" WOOD STUD

SCALE: 1-1/2" = 1'-0"

 $> \!\! <$

2X6" WOOD STUD WALL WITH 1 LAYER OF GWB ON BOTH SIDES.

BATH, KITCHEN &LAUNDRY SIDE SHALL BE M.R., STC: 34+

SCALE: 1-1/2" = 1'-0"

====1}

☐ 6" STUD PARTITION TYPE, UL # U305

A-910

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n by	AM, NB
ked by	TC
)	1 1/2" = 1'-0"
ISIONS	

Date

59 BOW STREET RESIDENCES

COLUMN SIZE VARIES. SEE STRUCTURAL PLANS. EXPOSED COLUMN PROTECTION Scale= 1 1/2" = 1'-0"

INTUMESCENT PAINT APPLIED

AS PER MANUFACTURER SPECS

TO PROVIDE 1HR FIRE RATING

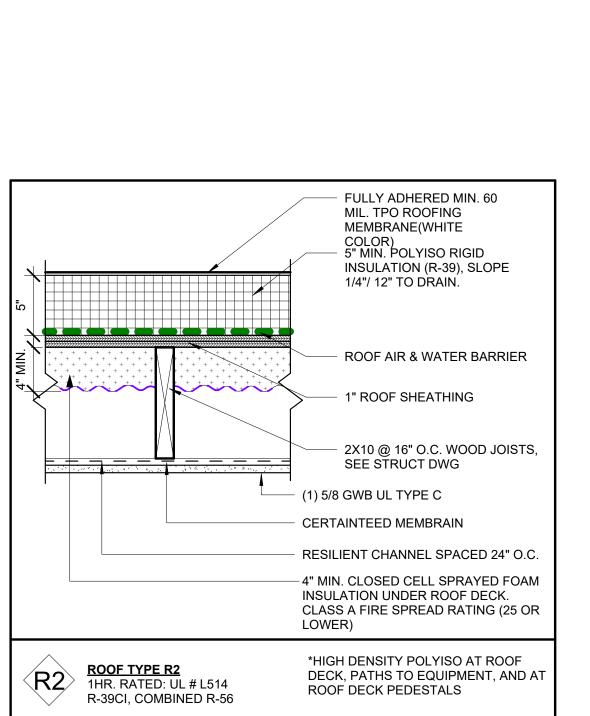
COLUMN SIZE VARIES. SEE

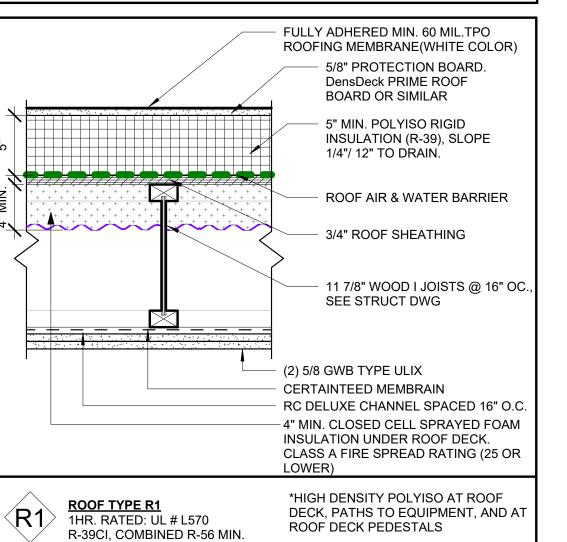
INTUMESCENT PAINT APPLIED

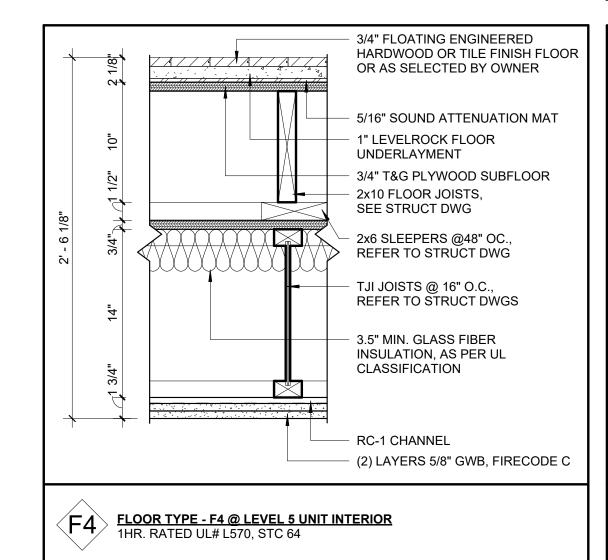
AS PER MANUFACTURER SPECS

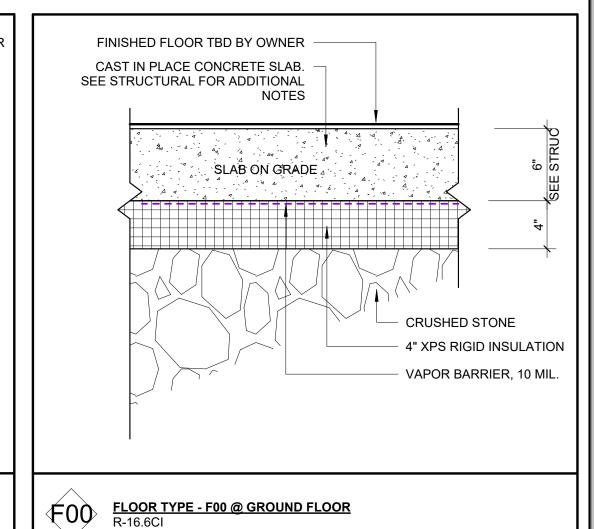
STRUCTURAL PLANS.

TO PROVIDE 1HR FIRE RATING









3/4" FLOATING ENGINEERED HARDWOOD OR TILE FINISH FLOOR OR AS SELECTED BY OWNER - 5/16" SOUND ATTENUATION MAT 1" LEVELROCK FLOOR UNDERLAYMENT 3/4" T&G PLYWOOD SUBFLOOR TJI JOISTS @ 16" O.C., REFER TO STRUCT DWGS CLOSED CELL SPRAYED FOAM INSULATION (R-91 MIN.) CLASS A FIRE SPREAD RATING (25 OR LOWER) (2) LAYERS 5/8" GWB, FIRECODE C RC-DELUXE CHANNEL SPACED @ 16" O.C.

@ABOVE RETAIL/RESTAURANT SPACE CAVITY FILLED WITH CLOSED CELL SPRAY FOAM INSULATION R-91

1HR RATED: UL DESIGN #: L570

3/4" FLOATING ENGINEERED HARDWOOD OR TILE FINISH FLOOR OR AS SELECTED BY OWNER - 5/16" SOUND ATTENUATION MAT 1" LEVELROCK FLOOR UNDERLAYMENT 3/4" T&G PLYWOOD SUBFLOOR TJI JOISTS @ 16" O.C., REFER TO STRUCT DWGS CLOSED CELL SPRAYED FOAM INSULATION (R-91 MIN.) CLASS A FIRÈ SPREAD RATING (25 OR LOWER) BASE LAYER 5/8" GWB, FIRECODE C (2) LAYERS 5/8" GWB, FIRECODE C - RC-DELUXE CHANNEL & 16" O.C.

3/4" FLOATING ENGINEERED HARDWOOD OR TILE FINISH FLOOF OR AS SELECTED BY OWNER 5/16" SOUND ATTENUATION MAT - 1" LEVELROCK FLOOR UNDERLAYMENT - 3/4" T&G PLYWOOD SUBFLOOR And the state of t 3.5" MIN. GLASS FIBER INSULATION, AS PER UL CLASSIFICATION - TJI JOISTS @ 16" O.C., REFER TO STRUCT DWGS (2) LAYERS 5/8" GWB, FIRECODE C RC-1 CHANNEL

F1 FLOOR TYPE - F1
1HR. RATED UL# L570, STC 64

PROJECT NAME

59 BOW STREET RESIDENCES

PROJECT ADDRESS

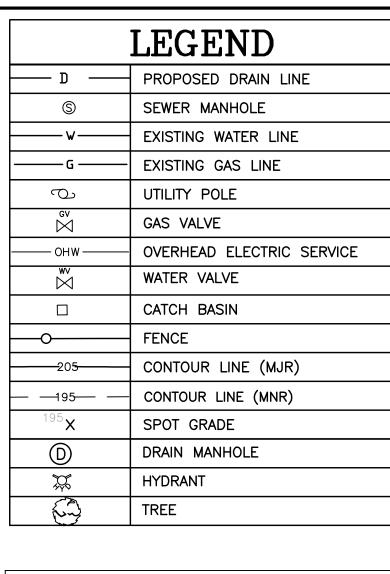
59 BOW STREET SOMERVILLE MA

CLIENT

SMT DEVELOPMENT

ı∟baic_		1.00.2020
Drawn		NB, AM TC
Checke	ed by	TC
Scale	ed by1 1	/2" = 1'-0"
	SIONS	
No.	Description	Date

HORIZONTAL ASSEMBLIES



DRAINAGE AREA SUMMARY

EXISTING ROOF AREA (HOUSE)= 1,346.6 S.F. EXISTING PAVED AREA (DRIVEWAY & WALKWAY) = 1,127.6 S.F. EXISTING GARAGE = 273.7 S.F.

EXISTING LANDING & STEPS = 124.4 S.F. EXISTING LANDSCAPE AREA = 127.7 S.F.

PROPOSED ROOF AREA= 2,827.9 S.F.

	DEEP OBS	ERVATION	HOLE NUMB	ER:	DEEP OBSERVATION HOLE NUMBER: TP-1				/ATION:		
Depth	Horizon/	Matrix:	Redo	cimorphic Fea	itures	Texture		Fragments by Volume)	Ctt	Consistence	Other
(in)	Layer	Color-Moist	Depth (in)	Color	Percent	(USDA)	Gravel	Cobbles & Stones	Structure	(Moist)	
0-72	FILL/ASH	-	-	-	: 	-		-		-	-
72-120	С	10YR 7/3	NONE	-		SILT LOAM	<5	<5	MASSIVE	BLOCKY	-

Runo	ff rate	Volume of runoff		
Existing	Proposed	Existing	Proposed	
0.22 cfs	0.19 cfs	747 cf	400 cf	
0.35 cfs	0.28 cfs	1,212 cf	857 cf	
0.44 cfs	0.34 cfs	1,506 cf	1,148 cf	
	0.22 cfs 0.35 cfs	0.22 cfs 0.19 cfs 0.35 cfs 0.28 cfs	Existing Proposed Existing 0.22 cfs 0.19 cfs 747 cf 0.35 cfs 0.28 cfs 1,212 cf	

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NOTES:

26.70

PROP. 4.0" DICL

DOMESTIC WATER

CONNECTION AT MAIN.

PROP. 4.0" DICL FIRE

CONNECTION AT MAIN.

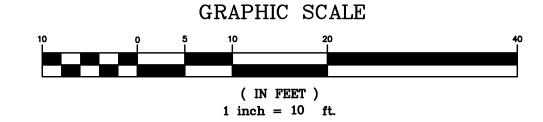
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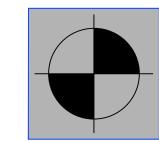
- 1. INFORMATION SHOWN ON THIS PLAN IS THE RESULT OF A FIELD SURVEY PERFORMED BY PETER NOLAN & ASSOCIATES LLC AS OF 01/20/2021.
- 2. DEED REFERENCE: BOOK 9569 PAGE 223, PLAN REFERENCE: PLAN 8 OF 1887 MIDDLESEX SOUTH DISTRICT REGISTRY OF DEEDS.
- 3. THIS PLAN IS NOT INTENDED TO BE RECORDED.
- 4. I CERTIFY THAT THE DWELLING SHOWN IS NOT LOCATED WITHIN A SPECIAL FLOOD HAZARD ZONE. IT IS LOCATED IN ZONE X, ON FLOOD HAZARD BOUNDARY MAP NUMBER 25017C0438E, PANEL NUMBER 0438E, COMMUNITY NUMBER: 250214, DATED JUNE 4, 2010.
- 5. THIS PLAN DOES NOT SHOW ANY UNRECORDED OR UNWRITTEN EASEMENTS WHICH MAY EXIST. A REASONABLE AND DILIGENT ATTEMPT HAS BEEN MADE TO OBSERVE ANY APPARENT USES OF THE LAND; HOWEVER THIS NOT CONSTITUTE A GUARANTEE THAN NO SUCH EASEMENTS EXIST.
- 6. FIRST FLOOR ELEVATIONS ARE TAKEN AT THRESHOLD.
- 7. NO RESPONSIBILITY IS TAKEN FOR ZONING TABLE AS PETER NOLAN & ASSOCIATES LLC ARE NOT ZONING EXPERTS. TABLE IS TAKEN FROM TABLE PROVIDED BY LOCAL ZONING ORDINANCE. CLIENT AND/OR ARCHITECT TO VERIFY THE ACCURACY OF ONING ANALYSIS.
- ZONING DISTRICT = M.R.-5

GENERAL NOTES

- THE CONTRACTOR SHALL REPORT TO THE OWNER AND ENGINEER OF ANY SIGNIFICANT VARIATIONS IN EXISTING SITE CONDITIONS FROM THOSE SHOWN ON THESE PLANS. ANY PROPOSED REVISIONS TO THE WORK, IF REQUIRED BY THESE SITE CONDITIONS, SHALL NOT BE UNDERTAKEN UNTIL REVIEWED AND APPROVED BY THE OWNER AND THE
- IN ORDER TO PROTECT THE PUBLIC SAFETY DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING AT ALL TIMES ALL NECESSARY SAFETY DEVICES AND PERSONNEL, WARNING LIGHTS, BARRICADES, AND POLICE OFFICERS.
- ALL WORK SHALL CONFORM TO CITY OF MELROSE GENERAL CONSTRUCTION STANDARDS
- THE CONTRACTOR SHALL REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEAN UP AND REMOVE LOOSE CONSTRUCTION DEBRIS BEFORE IT LEAVES THE SITE. ALL DEMOLITION DEBRIS SHALL BE PROMPTLY REMOVED FROM THE SITE TO A LEGAL DUMP SITE. ALL TRUCKS LEAVING THE SITE SHALL BE COVERED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTITUTE EROSION CONTROL MEASURES ON AN AS NECESSARY BASIS, SUCH THAT EXCESSIVE SOIL EROSION DOES NOT OCCUR.
- THE LOCATION OF UNDERGROUND UTILITIES AS REPRESENTED ON THESE PLANS IS BASED UPON PLANS AND INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES OR MUNICIPAL DEPARTMENTS SUPPLEMENTED BY FIELD IDENTIFICATION WHEREVER POSSIBLE. NO WARRANTY IS MADE AS TO THE ACCURACY OF THESE LOCATIONS OR THAT ALL UNDERGROUND UTILITIES ARE SHOWN. THE CONTRACTOR SHALL CONTRACT DIG SAFE AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION. DIG SAFE TELEPHONE NUMBER IS 1-800-322-4844.
- THE CONTRACTOR SHALL VERIFY THE LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO TAPPING INTO, CROSSING OR EXTENDING THEM. IF THE NEW WORK POSES A CONFLICT WITH EXISTING UTILITIES, THE ENGINEER SHALL BE NOTIFIED PRIOR TO THE CONTRACTOR CONTINUING.
- NO LEDGE, BOULDERS, OR OTHER UNYIELDING MATERIALS ARE TO BE LEFT WITHIN 6" OF THE WATER IN THE TRENCH, NOR ARE THEY TO BE USED FOR BACKFILL FOR THE FIRST 12" ABOVE THE PIPES.
- PAVEMENT AREA SHALL BE PAVED TO A THICKNESS AS SHOWN ON THE PLANS MEASURED AFTER COMPACTION, WITH A BINDER COURSE AND TOP COURSE OF CLASS I BITUMINOUS CONCRETE PAVEMENT, TYPE I-1.
- BASE MATERIAL SHALL BE CLEAN BANK RUN GRAVEL, CONFORMING TO M.D.P.W. M1.03.1, WITH NO STONES LARGER THAN THREE (3) INCHES IN DIAMETER AND SHALL BE PLACED AND ROLLED WITH AT LEAST A TEN TON ROLLER. THE SURFACES SHALL BE WET DURING ROLLING TO BIND THE MATERIAL. ALL STONES OF 4" DIAMETER OR LARGER SHALL BE REMOVED FROM THE SUB-BASE PRIOR TO PLACING BASE MATERIAL.
- ALL EXISTING PAVING TO BE DISTURBED SHALL BE CUT ALONG A STRAIGHT LINE THROUGH ITS ENTIRE THICKNESS. BUTT THE NEW PAVING INTO THE EXISTING PAVEMENT
- ANY PAVEMENT REMOVED FOR UTILITY TRENCH EXCAVATION OR OTHERWISE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITH A PAVEMENT SECTION CONSISTING OF 1 1/2" WEAR COURSE OVERLYING A 2 1/2" BINDER COURSE OVERLYING A 8" COMPACTED GRAVEL BASE COURSE.
- THE CONTRACTOR SHALL APPLY FOR A STREET OPENING AND UTILITY CONNECTION PERMITS AND SIDEWALK CROSSING PERMIT WITH THE CITY OF MELROSE DPW.
- CONTRACTOR TO ENSURE THAT ALL SURFACE WATER IS DIVERTED AWAY FROM BUILDING FOUNDATION DURING FINAL GRADING.

* PER TITLE V. SEWER FLOW RESIDENTIAL (G.P.D) EXISTING = $(5 \text{ BEDROOMS } \times 110 \text{ G.P.D.}) = 550 \text{ G.P.D.}$ PROPOSED = $(16 \text{ BEDROOMS } \times 110 \text{ G.P.D.}) = 1,760 \text{ G.P.D}$ THEREFORE, PROPOSED INCREASED FLOW = 1,210 G.P.D MITIGATION FEE = $$14.35 \times 1,210 \text{ G.P.D} = $17,363.5$





PETER NOLAN & ASSOCIATES, LLC SPRUHAN ENGINEERING, P. C

LAND SURVEYORS/CIVIL ENGINEERING CONSULTANTS 80 JEWETT ST, (SUITE 1) NEWTON, MA 02458

Tel:857-891-7478

617-782-1533

80 JEWETT ST, (SUITE NEWTON, MA 02458 Tel: 617-816-0722

Email:edmond@spruhaneng.





59-61 BOW STREET SOMERVILLE, *MASSACHUSETTS*

CIVIL PLAN

REVISION BLOCK

BY	DESCRIPTION	DATE
GP	BALCONIES REMOVED	3/15/2024
GP	AREA DRAIN LINE REVISED	3/15/2024 5/12/2025

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DATE:	10/30/2023
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CIVIL PLAN

SHEET 1 OF 4

PROPOSED LANDSCAPE	AREA = 172.1 S.F.					·		933 D		70 26 700 30	.61					7
TOTAL EXISTING IMPER' TOTAL PROPOSED IMPE								8 1,	EXISTING CONCRETE WALKWAY		PROPOSED MANHOLE			-EXISTING WATER		
TOTAL DECREASE IN IN	MPERVIOUS AREA =	44.5 S.F.						70,4-7	in line	EXISTING VERHEAD 7	TRANSFORMER	₹		TO BE CUT & CAPPED AT MAIN.		5
					LOT F	·	LOT B EXISTING CONCRETE WALKWAY	PROPOSED OF SELEVATOR	90.3'	SERVICE	EXISTING WATER SERVICE		01	CAFFED AT MAIN.		
	DEEP	OBSERVATION HO	LE LOG				0.1		STING	XISTIV,G	OUTLINE OF BUILDING					1
DEEP OBSERVATION		TP-1	GROUND ELEVATION Coarse Fragments	l:		#59	0.1		STORY	HAIN O	BUILDING ABOVE	¥¥				1.
Depth Horizon/ Matrix: (in) Layer Color-Mo		Texture (USDA)	(Percent by Volume) Gravel Cobbles &	ure Consistence (Moist) Other		PROPOSED 5 STORY				2.6	(2)	WATER				
0-72 FILL/ASH			Stones			RESIDENTIAL		RES	DENTR		PROPOSED INFILTRATION SYSTEM #1 3-STORM TECH UNITS	,	1			2.
72-120 C 10YR 7/3	NONE	SILT LOAM	<5 <5 MASSI	VE BLOCKY		BUILDING		DW	LLING	POSE	GRADE=27.0'± /ITOS=26.0'±		'			7
NOTES: 1. WEEPING @ 72". STAN 2. NO REFUSAL.	IDING WATER @ 90". NO RED	OX. OBSERVED.				=27.7'± (COMME .=27.0'±(RESIDEN		PROPOSED	APPROX. LOCATION OF ROOF DRAIN	A B A A A A A A A A A A A A A A A A A A	BOS=22.0'± INV IN=24.0'± (SEE DETAIL)					3. 4.
3. LOGGED BY MATTHEW	V MUI, SE14259 ON 09/19/2023	3.			I I	TO BE VERIFIED	Y	PROPOSED STAIR HEAD HOUSE			IMPERVIOUS					
						CHITECT BEFORE		COMMERCIA	ARCHITECT)	0	BARRIER TO BE INSTALLED ALONG ALL					5.
	Summary Ta	ble (HydroCA	AD results)		CON	ICRETE BEING PO		AREA F.F.= 27.7			SIDES OF SYSTEM					
Storm Event	Rune	off rate	Volume of run	off			OUTLINE OF BUILDING ABOVE	WALKW	AY 33.64		PROPOSE					6.
	Existing	Proposed	Existing	Proposed				×17.76	× × 28 × 3		12.0' PAVEMEN SIDEWAL	<u> </u>	x 27	7.91		
2-Year	0.22 cfs	0.19 cfs	747 cf	400 cf				× 24.0	×-28.1327	.0	SIDEWAL	<u>.K</u>	27.15			
10-Year	0.35 cfs	0.28 cfs	1,212 cf	857 cf			0.			27.28 × 2	OUTLINE OF BUILDING	F	2			7.
25-Year	0.55 CIS	0.28 CIS	1,212 01	837 CI		× 27.26	X 75.08-0	W-\/////30	27.03	627.47	ABOVE	J <	27.31 × 2	7.72		
400 77	0.44 cfs	0.34 cfs	1,506 cf	1,148 cf		<u> </u>	EXISTING EMH ^C RIM=27.25	m CHAINI NK	OZ PREN B	TING BRICK		£ (1)	27.40	78/		8.
100-Year	0.56 cfs	0.42 cfs	1,957 cf	1,596 cf	——	EXISTING OVERHEAD ELECTION OF THE PROPERTY OF	RIC LINES X		HW TEPS &	- OHW	EXISTING OVERHEAD ACCESSIBLE CURB RAMP	ELECTRIC LINES	X7003		DHW	_
	56.42'±	ROPOSED FIRST FI EV.=27.0'± PROP. AVERAGE		<i>-</i> € 26.77 s	EXISTING SEWER LINE SS EXISTING 8"	WATER MAIN W	EXISTING SEWING SEWERTO BE CUT & CAPPED AT MAIN.	ER LINE	PROP. 6" SDR 35 SEWER CONNECTION MAIN INVERTS TO VERIFIED IN FIELD	VAY—VARIA SS 27 PVC N AT BE	EXISTING SMH RIM=27.64 EXISTING 8" WATER	EXISTING 6" WATE			EXISTING SEWER LI SS EXISTING 8" WATER	10. 11. 12. 13.
							∜ ∕						78			
	DSED PR						/								× 28.42	/
NC	OT TO SCA	LŁ														
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SERVE AS OVERFLOW

3' PASSAGEWAY

WOOD STEP

FOR INFILTRATION SYSTEM

LOT 58

LOT BAUMIN 3,000± S.F.

ROOF DECK

RIM=26.3 INV=24.8

EXISTING

CHAINLINK

APPROX.

LOCATION OF

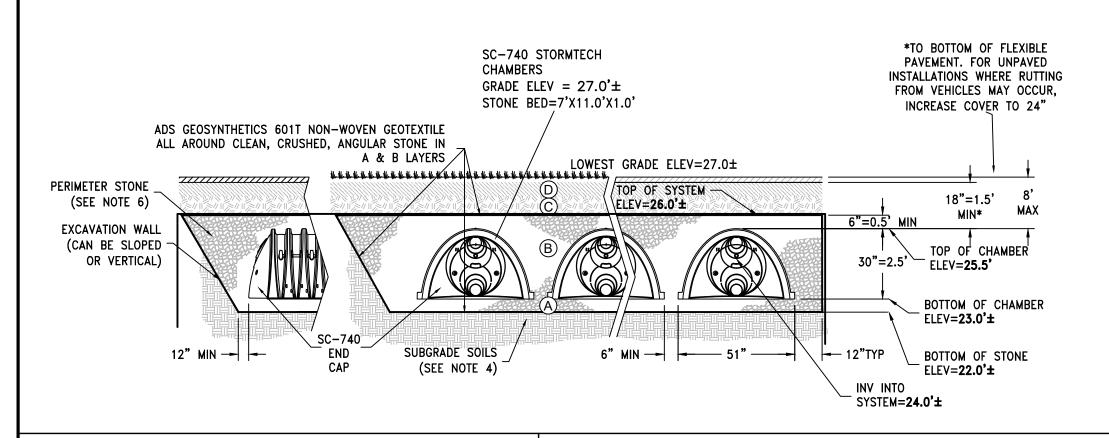
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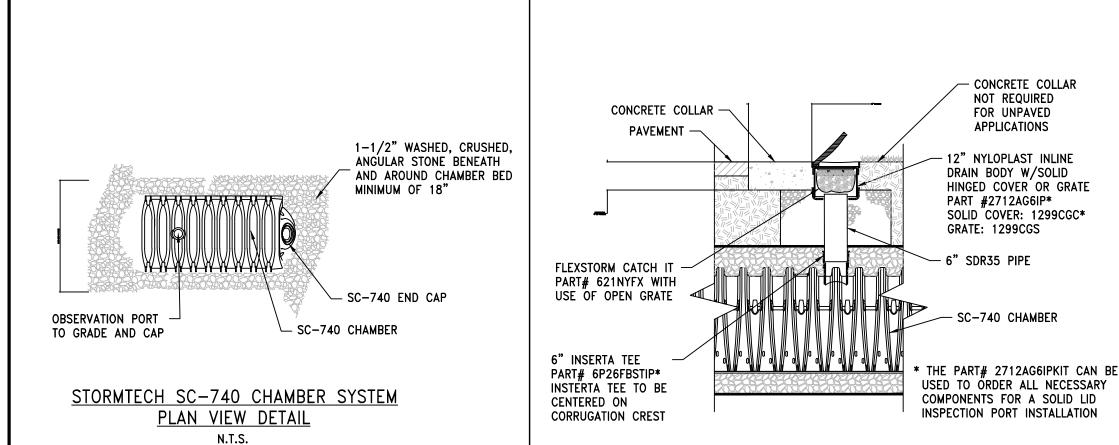
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A H

INFILTRATION SYSTEM





ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 CHAMBER SYSTEMS

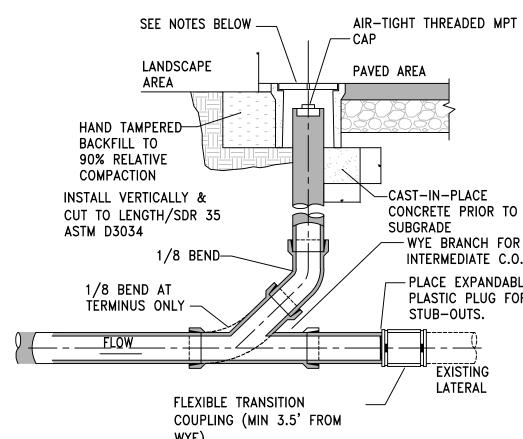
	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
С	INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2-4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
В	EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE	AASHTO M43' 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. 2 3

PLEASE NOTE:

- 1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- 2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- 3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.

NOTES:

- 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
- 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.

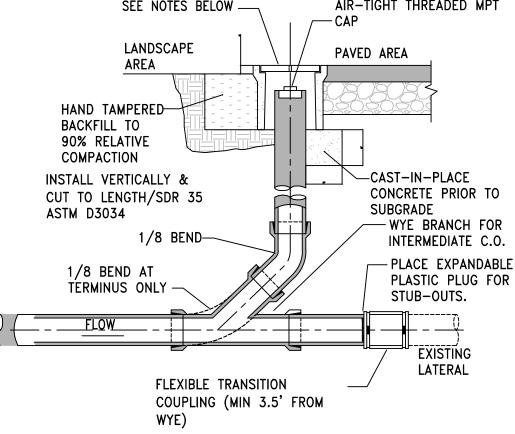


1. RECTANGULAR OR CIRCULAR BOXES ARE PERMITTED.

TRENCH WIDTH WS OR WU

- 2. CONCRETE/FIBERLYTE LIDS ARE ACCEPTABLE IN NON-VEHICULAR AREAS. H-20 CAST IRON TRAFFIC LIDS AND BOXES IN VEHICULAR AREAS.
- 3. ALL CLEANOUT LIDS SHALL BE MARKED WITH AN "S" OR THE WORD "SEWER" FOR SANITARY SEWER CLEANOUTS
- 4. CLEANOUT PIPE SHALL BE THE SAME DIAMETER AS THE CONNECTED SITE PIPE.
- 5. TERMINATE C.O. AT CLOSEST JOINT TO SURFACE WITH TEMPORARY PLUG. AFTER ALL BACKFILL IS COMPLETE AND SUB-GRADE MADE IN AREAS TO BE PAVED, THE FINAL RISER PIPE AND BOX SHALL BE INSTALLED AS SHOWN.

CLEANOUT TO GRADE NTS



59-61 BOW STREET

SOMERVILLE,

MASSACHUSETTS

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DATE

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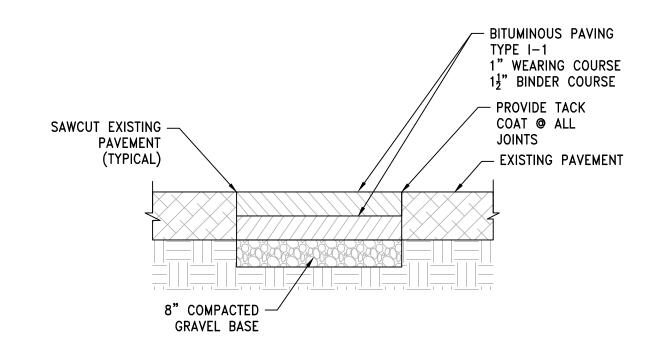
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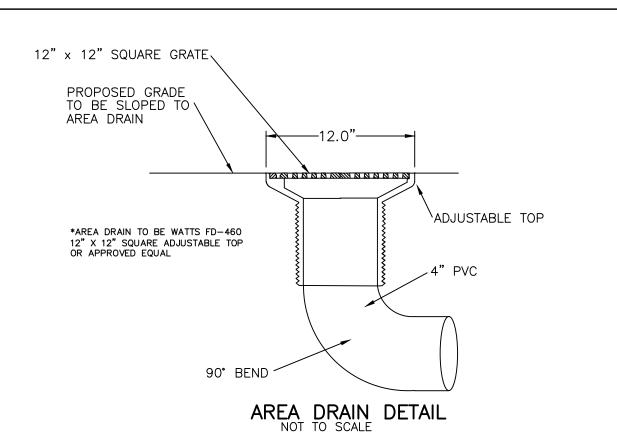
DETAILS

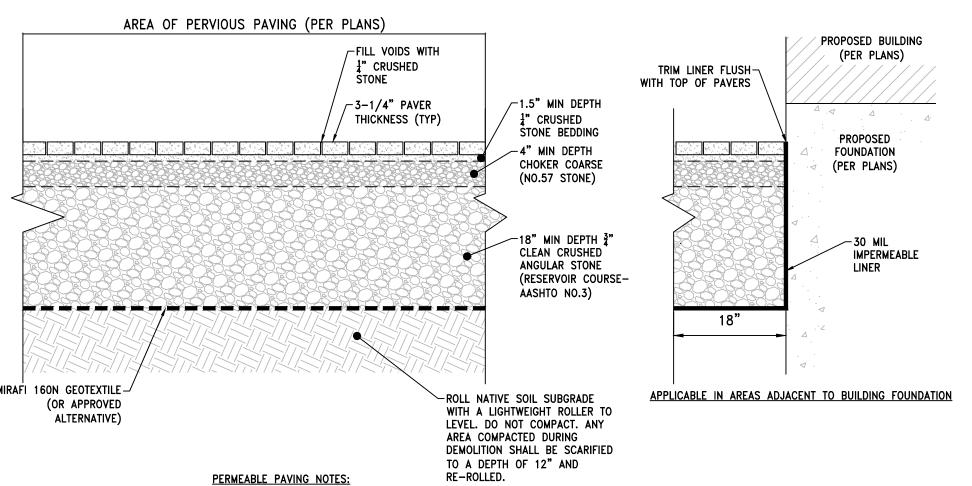
SHEET 2 OF 4



SC-740 6" INSPECTION PORT DETAIL N.T.S.

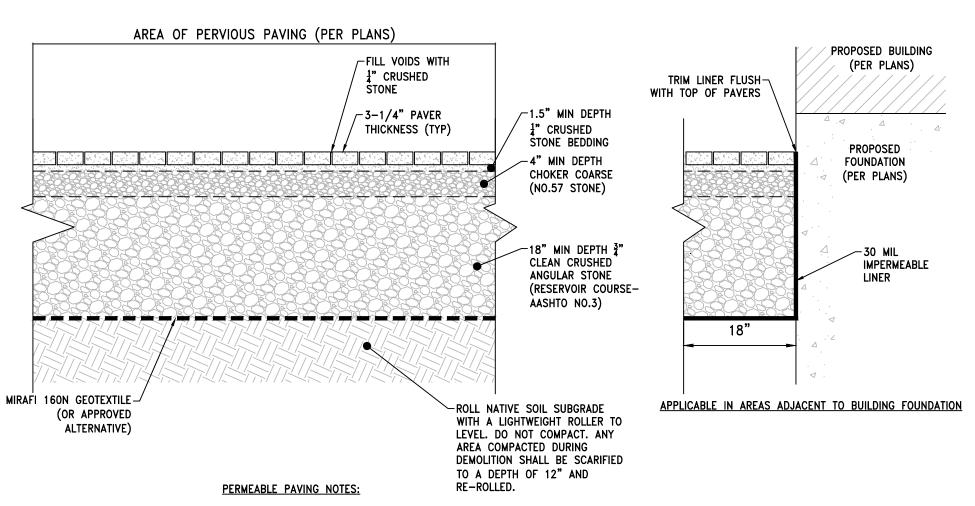
PAVEMENT MATCH SAWCUT DETAIL





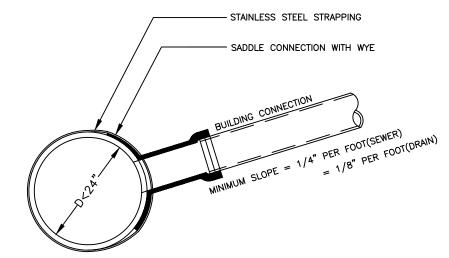
1. PAVERS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURES SPECIFICATIONS.

PERVIOUS PAVER DETAIL



WS DIAM. OF PIPE **UNSHEETED** SHEETED 3'-0" 4'-2" 12" AND SMALLER 0.D.+20" 0.D.+36" 15" AND LARGER TRENCH WIDTH: WS OR WU WS/2 OR WU/2 LINE OF NARROW TRENCH LIMIT SHEETING, FUSED | = NO LEDGE OR SHALL BE LEFT IN PLACE UNEXCAVATED MATERIAL BELOW THE LINE OF SHALL PROJECT NARROW BEYOND THIS LINE. TRENCH LIMIT, EXCEPT WHERE OTHERWISE INDICATED OR S' SAND BACKFILL DIRECTED. PAYMENT LIMITS FOR PAYMENT LIMITS FOR NORMAL EXCAVATION ROCK EXCAVATION. _UNDISTURBED MATERIAL COMPACTED SCREENED GRAVEL AGAINST UNDISTURBED MATERIAL OR SHEETING HALF SECTION IN EARTH IN ROCK

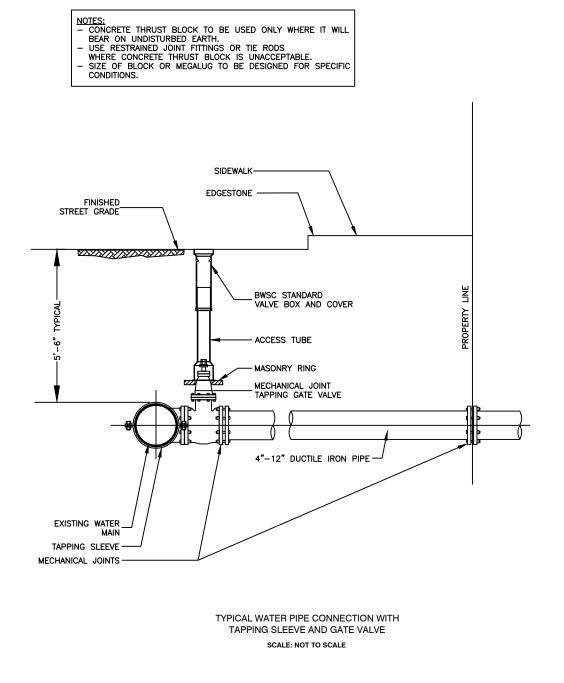
> WATER TRENCH SECTION NOT TO SCALE

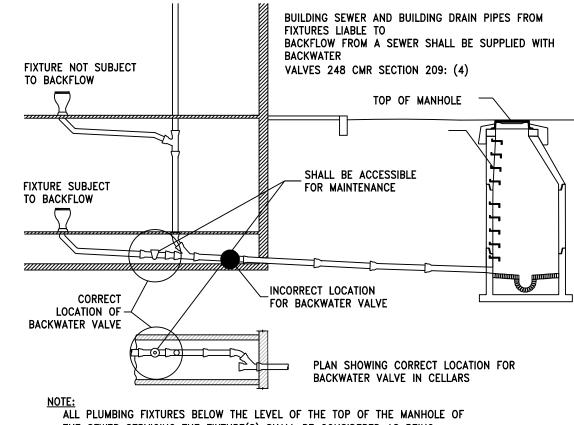


EXISTING SEWER OR DRAIN PIPE

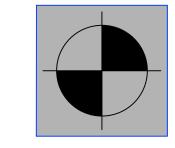
- FULL PVC OR IRON SADDLE MAY BE USED TO CONNECT TO EXISTING PVC, CLAY, CONCRETE, OR IRON PIPE.
- 2. SADDLES MUST HAVE RUBBER GASKETS AND SHALL BE TIGHTENED WITH STRAPS. SADDLES WILL NOT BE CEMENTED ONTO THE PIPE.
- 3. FULL WYE CONNECTION FITTINGS MAY BE USED
- 4. PIPE SHALL BE CUT TO CONFORM TO THE OPENING IN THE SADDLE.
- 5. CONNECTIONS DIRECTLY INTO THE EXISTING PIPE WITHOUT A SADDLE OR A FULL WYE FITTING ARE NOT ALLOWED.

TYPICAL SADDLE CONNECTION TO EXISTING SEWER OR DRAIN SCALE: NOT TO SCALE





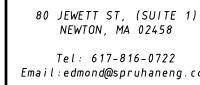
THE SEWER SERVICING THE FIXTURE(S) SHALL BE CONSIDERED AS BEING SUBJECT TO BACKFLOW AND SHALL BE SUPPLIED WITH BACKWATER VALVES. LOCATION OF BACKWATER VALVES
SCALE: NOT TO SCALE



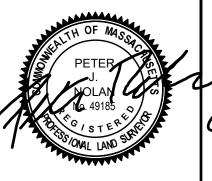
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CIVIL PLAN

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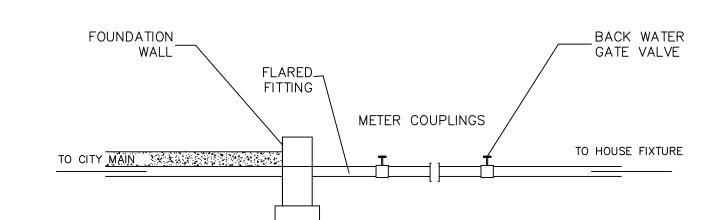
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DETAILS

SHEET 3 OF 4



WATER METER DETAIL SCALE: NOT TO SCALE

EROSION CONTROL NOTES

- 1. THE EROSION CONTROL PLANS IN THIS SET SHALL BE REVIEWED AND IMPLEMENTED BY THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK. CONTRACTOR SHALL WORK WITH THE PROJECT'S ENGINEER THROUGHOUT CONSTRUCTION TO ENSURE THE SITE IS PROPERLY PROTECTED FROM POSSIBLE POLLUTANTS. THE ENGINEER HAS AUTHORIZATION TO ADD OR REMOVE BMP MEASURES THROUGHOUT CONSTRUCTION.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING SITE EROSION CONTROL AT ALL TIMES.
- 3. IT SHALL BE THE RESPONSIBILITY OF THE OWNER AND THE PERMITTEE TO ENSURE THAT EROSION DOES NOT OCCUR FROM ANY ACTIVITY DURING OR AFTER PROJECT CONSTRUCTION. ADDITIONAL MEASURES, BEYOND THOSE SPECIFIED, MAY BE REQUIRED BY THE PLANNING DIRECTOR AS DEEMED NECESSARY TO CONTROL ACCELERATED EROSION.
- 4. AT THE END OF EACH WORKDAY, AT THE END OF EACH WORKWEEK, THE CONTRACTOR SHALL IMPLEMENT ALL TEMPORARY MEASURES NECESSARY TO PREVENT EROSION AND SILTATION, UNTIL THE PROJECT HAS BEEN FINALIZED. THESE MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, DIRECT SEEDING OF THE AFFECTED AREAS, STRAW MULCHING, AND/OR INSTALLATION OF STRAW BALES DAMS/SILT FENCES.
- 5. DURING CONSTRUCTION, NO TURBID WATER SHALL BE PERMITTED TO LEAVE THE SITE. USE OF SILT AND GREASE TRAPS, FILTER BERMS, HAY BALES OR SILT FENCES SHALL BE USED TO PREVENT SUCH DISCHARGE.
- 6. ALL AREAS ON— AND OFF—SITE EXPOSED DURING CONSTRUCTION ACTIVITIES, IF NOT PERMANENTLY LANDSCAPED PER PLAN, SHALL BE PROTECTED BY MULCHING AND/OR SEEDING.
- 7. ALL EXCAVATED MATERIAL SHALL BE REMOVED TO AN APPROVED DISPOSAL SITE OR DISPOSED OF ON-SITE IN A MANNER THAT WILL NOT CAUSE EROSION.
- 8. ANY MATERIAL STOCKPILED, FOR LONGER THAN 14 DAYS, DURING CONSTRUCTION SHALL BE COVERED WITH PLASTIC.
- 9. UPON COMPLETION OF CONSTRUCTION, ALL REMAINING EXPOSED SOILS SHALL BE PERMANENTLY REVEGETATED.
- 10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ADDITIONAL MEASURES NECESSARY TO CONTROL SITE EROSION AND PREVENT SEDIMENT TRANSPORT OFF—SITE ARE IMPLEMENTED.
- 11. ALL SPILLS AND/OR LEAKS SHALL BE IMMEDIATELY CLEANED UP AND MITIGATED.

CONSTRUCTION MATERIALS

- ALL LOOSE STOCKPILED CONSTRUCTION MATERIALS THAT ARE NOT ACTIVELY BEING USED (I.E. SOIL, SPOILS, AGGREGATE, FLY-ASH, STUCCO, HYDRATED LIME, ETC.) SHALL BE COVERED AND BERMED.
- ALL CHEMICALS SHALL BE STORED IN WATERTIGHT CONTAINERS (WITH APPROPRIATE SECONDARY CONTAINMENT TO PREVENT ANY SPILLAGE OR LEAKAGE) OR IN A STORAGE SHED (COMPLETELY ENCLOSED).
- EXPOSURE OF CONSTRUCTION MATERIALS TO PRECIPITATION SHALL BE MINIMIZED. THIS DOES NOT INCLUDE MATERIALS AND EQUIPMENT THAT ARE DESIGNED TO BE OUTDOORS AND EXPOSED TO ENVIRONMENTAL CONDITIONS (I.E. POLES, EQUIPMENT PADS, CABINETS, CONDUCTORS, INSULATORS, BRICKS, ETC.).
- BEST MANAGEMENT PRACTICES TO PREVENT THE OFF-SITE TRACKING OF LOOSE CONSTRUCTION AND LANDSCAPE MATERIALS SHALL BE IMPLEMENTED.

WASTE MANAGEMENT

- DISPOSAL OF ANY RINSE OR WASH WATERS OR MATERIALS ON IMPERVIOUS OR PERVIOUS SITE SURFACES OR INTO THE STORM DRAIN SYSTEM SHALL BE PREVENTED.
- SANITATION FACILITIES SHALL BE CONTAINED (E.G. PORTABLE TOILETS) TO PREVENT DISCHARGES OF POLLUTANTS TO THE STORM WATER DRAINAGE SYSTEM OR RECEIVING WATER, AND SHALL BE LOCATED A MINIMUM 20 FEET AWAY FROM AN INLET, STREET OR DRIVEWAY, STREAM, RIPARIAN AREA OR OTHER DRAINAGE FACILITY.
- SANITATION FACILITIES SHALL BE INSPECTED REGULARLY FOR LEAKS AND SPILLS AND CLEANED OR REPLACED AS NECESSARY.
- COVER WASTE DISPOSAL CONTAINERS AT THE END OF EVERY BUSINESS DAY AND DURING A RAIN EVENT.
- DISCHARGES FROM WASTE DISPOSAL CONTAINERS TO THE STORM WATER DRAINAGE SYSTEM OR RECEIVING WATER SHALL BE PREVENTED.
- STOCKPILED WASTE MATERIAL SHALL BE CONTAINED AND SECURELY PROTECTED FROM WIND AND RAIN AT ALL TIMES UNLESS ACTIVELY BEING USED.

PROCEDURES THAT EFFECTIVELY ADDRESS HAZARDOUS AND NON-HAZARDOUS SPILLS SHALL BE IMPLEMENTED.EQUIPMENT AND MATERIALS FOR CLEANUP OF SPILLS SHALL BE AVAILABLE ON SITE AND THAT SPILLS AND LEAKS SHALL BE CLEANED UP IMMEDIATELY AND DISPOSED OF PROPERLY; AND

CONCRETE WASHOUT AREAS AND OTHER WASHOUT AREAS THAT MAY CONTAIN ADDITIONAL POLLUTANTS SHALL BE CONTAINED SO THERE IS NO DISCHARGE INTO THE UNDERLYING SOIL AND ONTO THE SURROUNDING AREAS.

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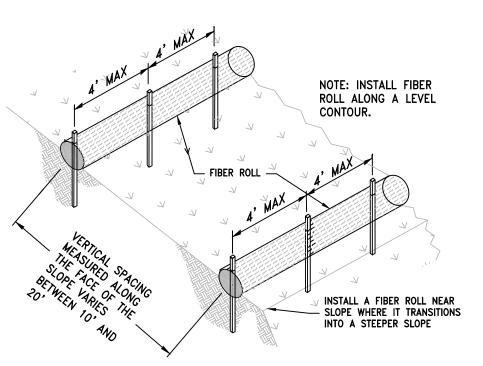
PROPOSED FIBER ROLLS TO BE INSTALLED AROUND \$ 36.06 LOT 58 PERIMETER OF **EXISTING** CHAINLINK CONSTRUCTION (SEE DETAIL) Ŷ¥ 3' PASSAGEWAY **LOT A** 3,000± S.F. **EXISTING** CHAINLINK **EXISTING** BITUMINOUS EXISTING DRIVEWAY **GARAGE DEMOLISHED** __ [____] GARAGE CHAINLINK FENCE **EXISTING** EXISTING DRIVEWAY TO STEPS TO BE BE DEMOLISHED DEMOLISHED -27-**EXISTING** WOOD STEPS CONCRETE WALKWAY VERHEAD EXISTING WATER LOT F LOT B **EXISTING** SERVICE #59-61 CONCRETE WALKWAY SERVICE EXISTING 2.5 STORY CHAINLINK EXISTING HOUSE TO BE FRAMED DEMOLISHED RESIDENTIAL DWELLING F.F.=33.64 **EXISTING** WALKWAY TO (TAKEN AT BE DEMOLISHED THRESHOLD) WALKWAY PROVIDE OPENING FOR CONSTRUCTION **ENTRANCE AND EXIT EXISTING** CONCRETE WITH ANTI-TRACKING PROPOSED FIBER WALKWAY MEASURES (PREVENT ROLLS TO BE SEDIMENT FROM INSTALLED AROUND AINLINI LEAVING SITE) PERIMETER OF CONSTRUCTION (SEE DETAIL) EXISTING EMP **EXISTING** RIM = 27.25-RED BRICK STEPS & LANDING **FENCE** EXISTING OVERHEAD ELECTRIC LINES . EXISTING OVERHEAD ELECTRIC LINES -EXISTING EXISTING SEWER. SERVICE \ (PUBLIC WAY-VARIABLE WIDTH) EXISTING SEWER LINE EXISTING SEWER LINE EXISTING SEWER LINE -EXISTING SMH RIM = 27.64INV=XXX EXISTING 8" WATER MAIN EXISTING 8" WATER MAIN EXISTING 8" WATER MA

VEHICLE STORAGE AND MAINTENANCE

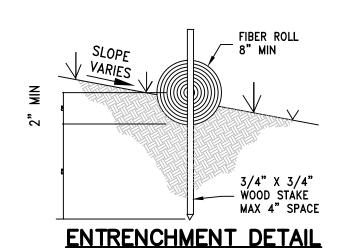
- MEASURES SHALL BE TAKEN TO PREVENT OIL, GREASE, OR FUEL TO LEAK IN TO THE GROUND, STORM DRAINS OR SURFACE WATERS.
- ALL EQUIPMENT OR VEHICLES, WHICH ARE TO BE FUELED, MAINTAINED AND STORED ONSITE SHALL BE IN A DESIGNATED AREA FITTED WITH APPROPRIATE BMPs.
- LEAKS SHALL BE IMMEDIATELY CLEANED AND LEAKED MATERIALS SHALL BE DISPOSED OF PROPERLY.

LANDSCAPE MATERIALS

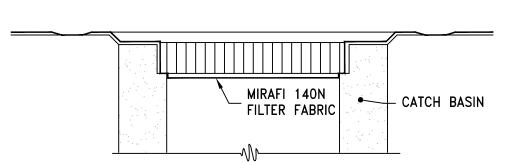
- CONTAIN STOCKPILED MATERIALS SUCH AS MULCHES AND TOPSOIL WHEN THEY ARE NOT ACTIVELY BEING USED.
- CONTAIN FERTILIZERS AND OTHER LANDSCAPE MATERIALS WHEN THEY ARE NOT ACTIVELY BEING USED.
- DISCONTINUE THE APPLICATION OF ANY ERODIBLE LANDSCAPE MATERIAL WITHIN 2 DAYS BEFORE A FORECASTED RAIN EVENT OR DURING PERIODS OF PRECIPITATION.
- APPLY ERODIBLE LANDSCAPE MATERIAL AT QUANTITIES AND APPLICATION RATES ACCORDING TO MANUFACTURE RECOMMENDATIONS OR BASED ON WRITTEN SPECIFICATIONS BY KNOWLEDGEABLE AND EXPERIENCED FIELD PERSONNEL.
- STACK ERODIBLE LANDSCAPE MATERIAL ON PALLETS AND COVERING OR STORING SUCH MATERIALS WHEN NOT BEING USED OR APPLIED.



TYPICAL INSTALLATION



FIBER ROLLS



INSPECTION AND MAINTENANCE:

- 1. FILTER FABRIC BARRIERS SHALL BE INSPECTED WEEKLY AFTER EACH SIGNIFICANT STORM 1 INCH RAINFALL (25.4 MM) IN 24 HOUR PERIOD. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- 2. SEDIMENT SHOULD BE REMOVED WHEN IT REACHES 0.5" MAXIMUM HEIGHT. AT THAT TIME INSPECT THE FILTER MATERIAL FOR TEARS AND CLEAN OR REPLACE AS REQUIRED.
- 3. THE REMOVED SEDIMENT SHALL BE DISTRIBUTED EVENLY ACROSS AREAS ON-SITE, CONFORM WITH THE EXISTING GRADE AND BE REVEGETATED OR OTHERWISE STABILIZED PER EROSION CONTROL NOTES.

CATCH BASIN PROTECTION

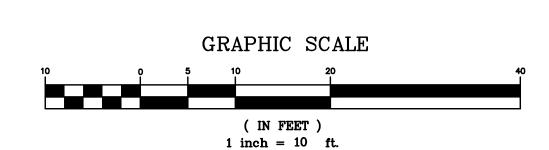
FIBER ROLL CONSTRUCTION SPECIFICATIONS

- 1. PREPARE SLOPE BEFORE THE WATTLING PROCEDURE IS STARTED. SHALLOW GULLIES SHOULD BE SMOOTHED AS WORK PROGRESSES.
- 2. DIG SMALL TRENCHES ACROSS SLOPE ON CONTOUR, TO PLACE WATTLES IN. THE TRENCH SHOULD BE DEEP ENOUGH TO ACCOMMODATE HALF THE THICKNESS OF THE WATTLE. WHEN THE SOIL IS LOOSE AND UNCOMPACTED, THE TRENCH SHOULD BE DEEP ENOUGH TO BURY THE WATTLE 2/3 OF ITS THICKNESS BECAUSE THE GROUND WILL SETTLE. IT IS CRITICAL THAT WATTLES ARE INSTALLED PERPENDICULAR TO WATER MOVEMENT, PARALLEL TO THE SLOPE CONTOUR.
- 3. START BUILDING TRENCHES AND INSTALL WATTLES FROM THE BOTTOM OF THE SLOPE
- AND WORK UP.

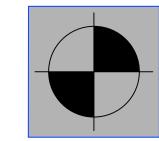
 4. CONSTRUCT TRENCHES AT CONTOUR INTERVALS OF THREE TO EIGHT FEET APART DEPENDING ON STEEPNESS OF SLOPE. THE STEEPER THE SLOPE, THE CLOSER TOGETHER THE TRENCHES
- 5. LAY THE WATTLE ALONG THE TRENCHES FITTING IT SNUGLY AGAINST THE SOIL. MAKE SURE NO GAPS EXIST BETWEEN THE SOIL AND THE STRAW WATTLE. USE A STRAIGHT BAR TO DRIVE HOLES THROUGH THE WATTLE AND INTO THE SOIL FOR THE WOODEN
- 6. DRIVE THE STAKE THROUGH THE PREPARED HOLE INTO THE SOIL. LEAVE ONLY ONE OR TWO INCHES OF STAKE EXPOSED ABOVE WATTLE. IF USING WILLOW STAKES REFER TO USDA SOIL CONSERVATION SERVICE TECHNICAL GUIDE, BIOENGINEERING, FOR GUIDELINES TO PREPARING LIVE WILLOW MATERIAL.
- 7. INSTALL STAKES AT LEAST EVERY FOUR FEET APART THROUGH WATTLE. ADDITIONAL STAKES MAY BE DRIVEN ON THE DOWNSLOPE SIDE OF THE TRENCHES ON HIGHLY EROSIVE OR VERY STEEP SLOPES.

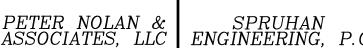
FIBER ROLL INSTALLATION AND MAINTENANCE

- 8. INSPECT THE STRAW WATTLE AND THE SLOPES AFTER SIGNIFICANT STORMS. MAKE SURE THE WATTLES ARE IN CONTACT WITH THE SOIL.
 9. REPAIR ANY RILLS OR GULLIES PROMPTLY.
- 10. RESEED OR REPLANT VEGETATION IF NECESSARY UNTIL THE SLOPE IS STABILIZED.



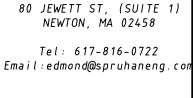
FIBER ROLLS

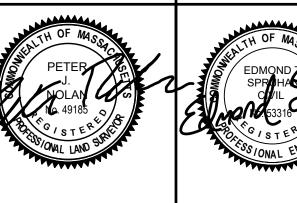




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NEWTON, MA 02458
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617-782-1533

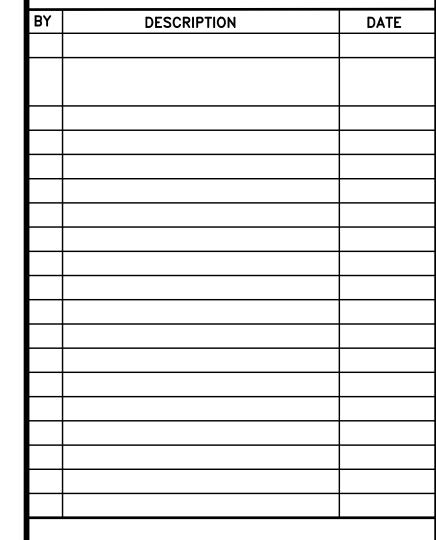






CIVIL PLAN

REVISION BLOCK

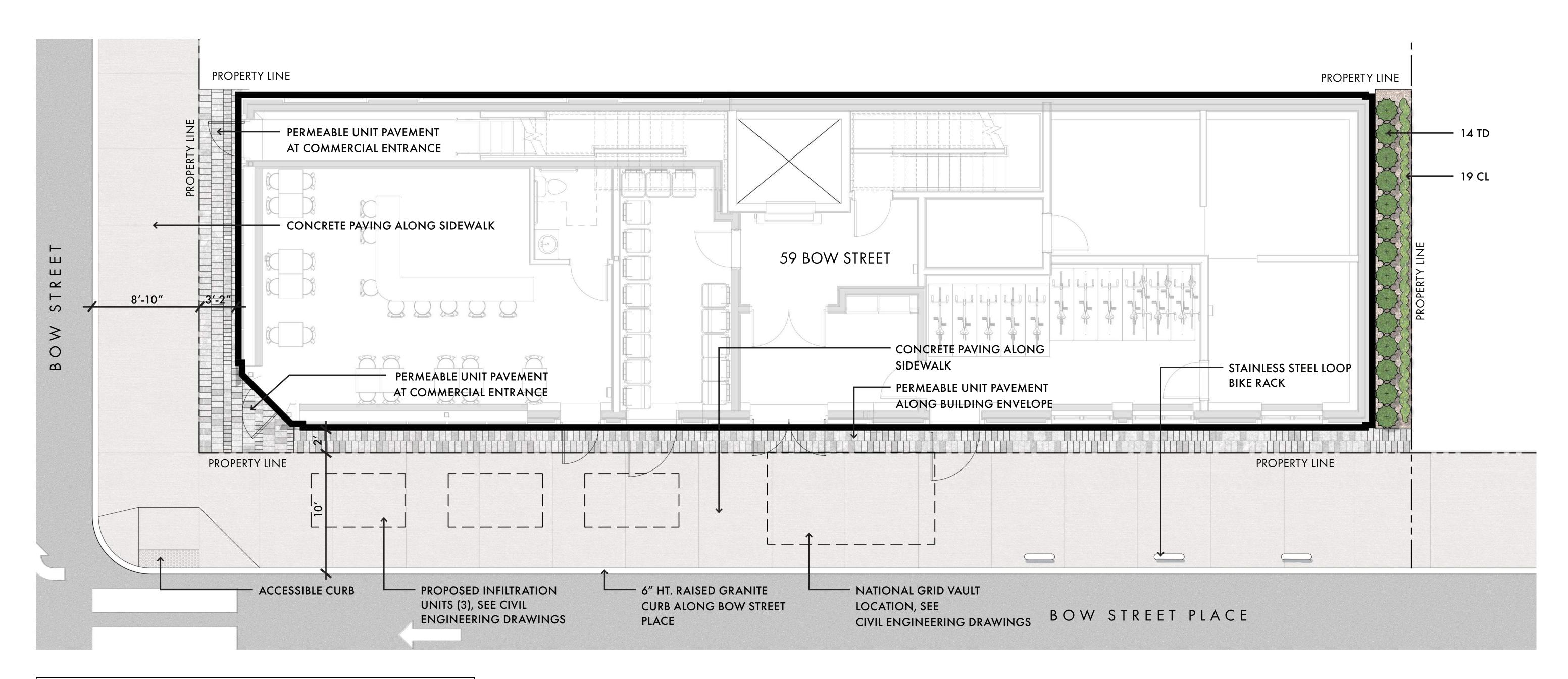


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DATE:	10/30/2023
DRAWN BY:	JRH
CHECKED BY:	E.S
APPROVED BY:	P.N
	E.S P.N

EROSION CONTROL & DEMOLITION PLAN

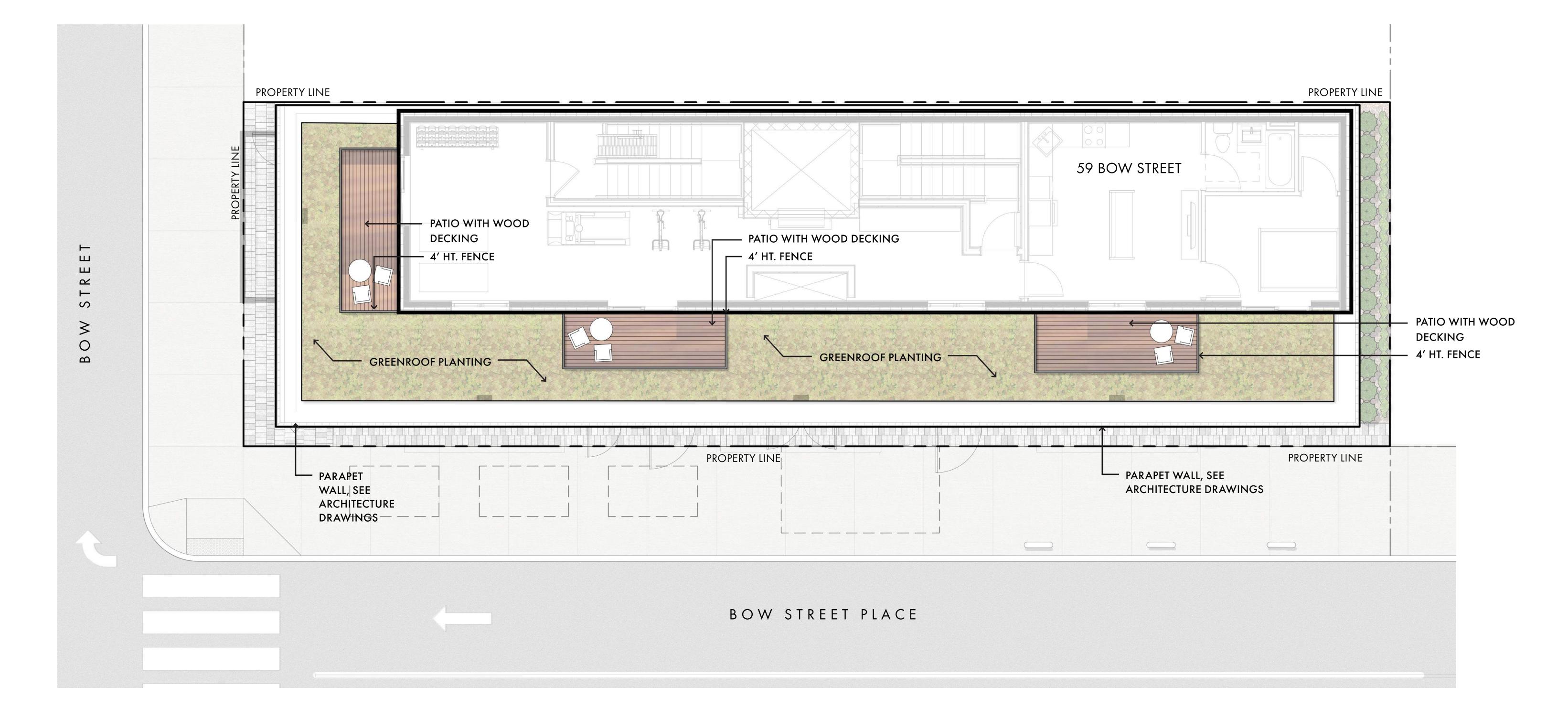
SHEET 4 OF 4



PLANT SC	CHEDULE							
SYMBOL	QTY.	LATIN NAME	COMMON NAME	SIZE	NOTES			
SHRUBS A	SHRUBS AND GROUNDCOVER							
TD	14	TAXIS X MEDIA 'DENSIFORMIS'	DENSE YEW	3 GAL	36" O.C. CONTAINER			
PERENNIA	PERENNIALS AND ORNAMENTAL GRASSES							
CL	19	CAREX MORROW ' ICE SEDGE'	ICE DANCE SEDGE	1 GAL	18" O.C. CONTAINER			
,								

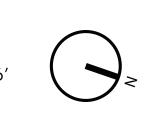




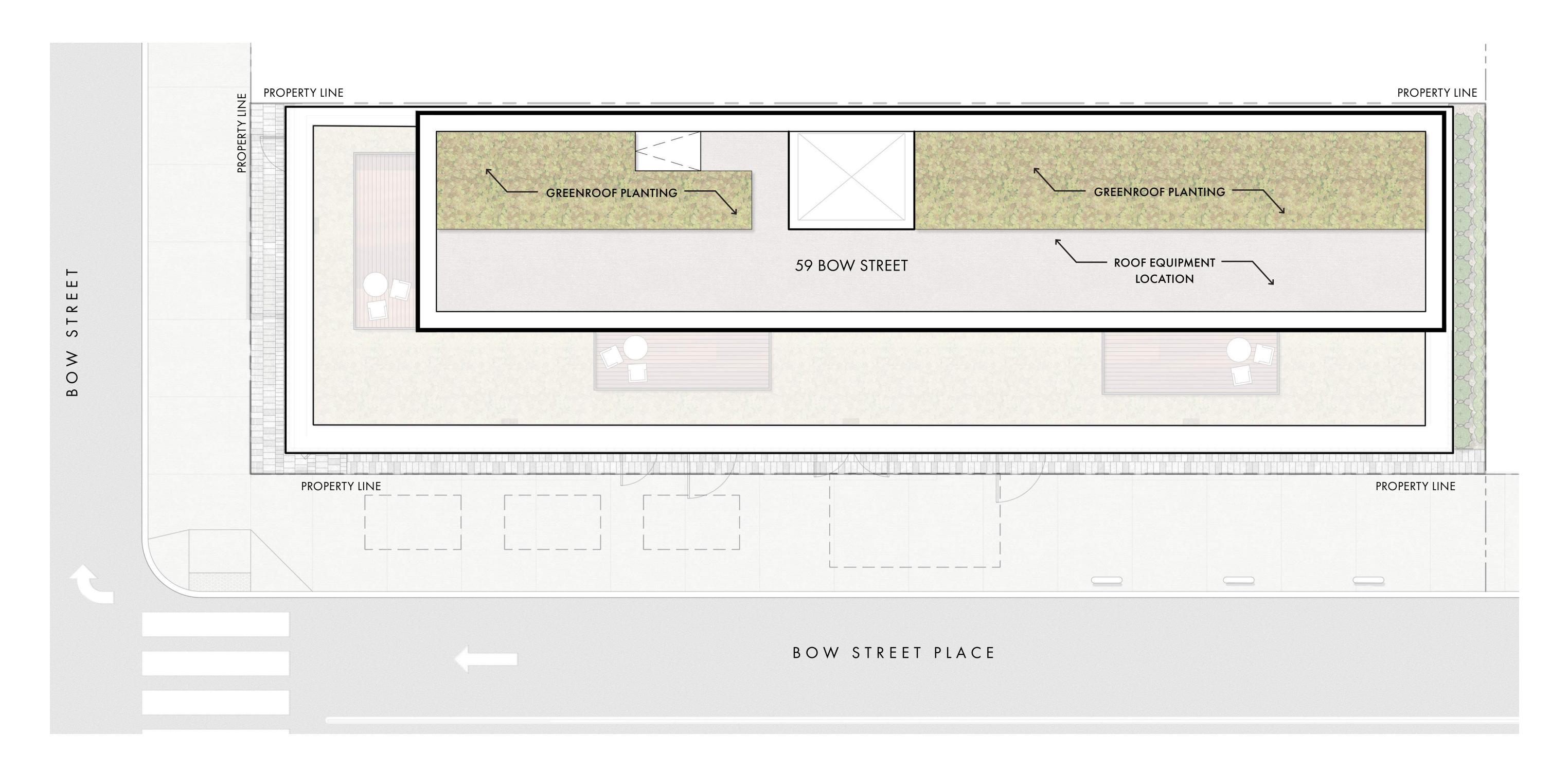


PRE-VEGETATED TRAYS BY LIVEROOF:

BASE PLANTS: SEDUM ACRE 'AIREUM', SEDUM ALBUM 'CHLOROTICUM', SEDUM REFLEXUM SUNSPASH, SEDUM REFELXUM MOONSHINE ACCENT PLANTS, SEDUM CAUTICOLA 'SUNSET CLOUD' 1 PER MODULE, PLANTED IN THE CENTER OF EACH, SEDUM X VERA JAMESON 1/2 PER MODULE, PLANTED RANDOMLY TO LOOK NATURAL





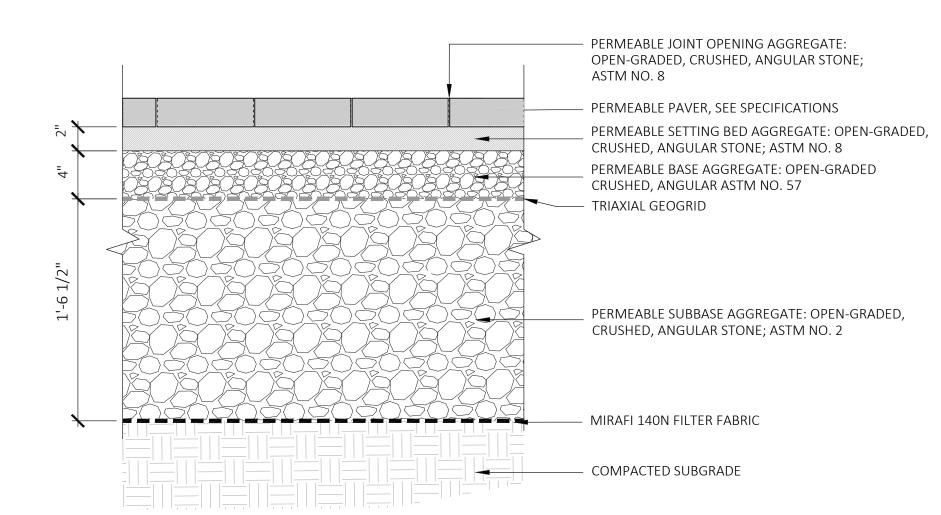


PRE-VEGETATED TRAYS BY LIVEROOF:

BASE PLANTS: SEDUM ACRE 'AUREUM', SEDUM ALBUM 'CHLOROTICUM', SEDUM REFLEXUM SUNSPASH, SEDUM REFELXUM MOONSHINE ACCENT PLANTS, SEDUM CAUTICOLA 'SUNSET CLOUD' 1 PER MODULE & PLANTED IN THE CENTER OF EACH, SEDUM X 'VERA JAMESON' 1/2 PER MODULE & PLANTED RANDOMLY TO LOOK NATURAL

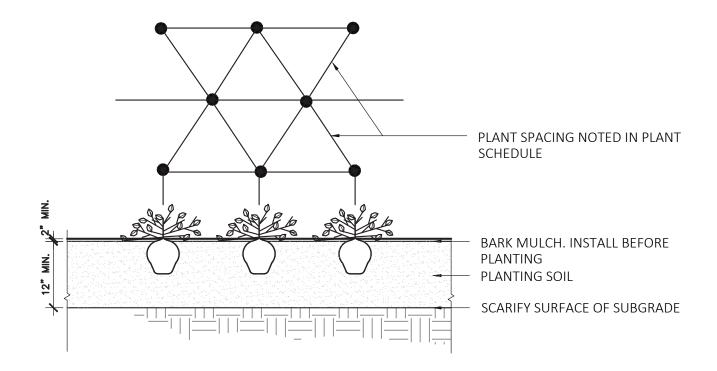




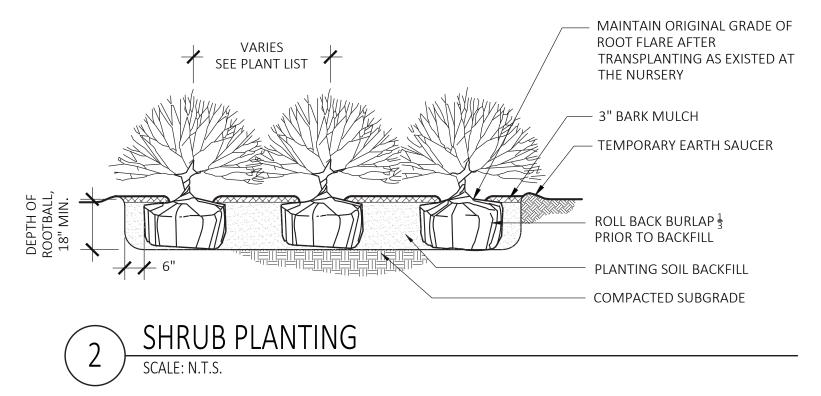


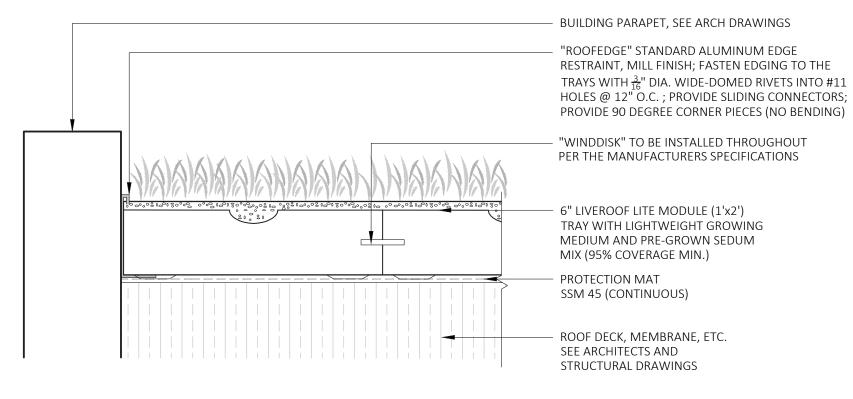
PERMEABLE PAVERS

SCALE: 1-1/2" =1'-0"



PERENNIAL PLANTING





GREEN ROOF TRAYS

omerville Green Score				
RECTIONS:	Area or Number			
Enter the Lot Area in square feet to the right >>>	3,000			
Enter the area in square feet or the number of landscape elements		Sq Ft Credit	Multiplier	We
ils				

Soils		
Landscaped area with a soil depth less than 24 inches (enter square feet)	84	á
Landscaped area with a soil depth equal to or greater than 24 inches (enter square feet)	0	á
Pervious Paving with 6 to 24 inches of subsurface soil or gravel (enter square feet)	0	á
Pervious Paving with more than 24 inches of subsurface soil or gravel (enter square feet)	283	á
Groundcovers		
Turf grass, mulch, and inorganic surfacing materials (enter square feet)	0	á
Plants		
Vegetation less than two (2) feet tall at maturity (enter square feet)	28	á
Vegetation at least two (2) feet tall at maturity (enter number of individual plants)	14	
Trees		
Small Tree <i>(enter number of trees)</i>	0	
Large Tree <i>(enter number of trees)</i>	0	
Preserved Tree <i>(enter DBH)</i>	0	
Engineered Landscape		
Vegetated Wall <i>(enter square feet)</i>	0	á
Rain gardens, bioswales, and stormwater planters (enter square feet)	0	;
Green Roof with up to 6" of growth medium (enter square feet)	0	
Green Roof with 6"-10" of growth medium (enter square feet)	1114	
Green Roof of 10"-24" growth medium (enter square feet)	0	- 6
Green Roof of over 24" growth medium	N/A	

Sq Ft Credit	Multiplier	Weighted Area	Score Value	% of Sc
actual sq ft	0.3	25.2	0.008	4%
actual sq ft	0.6	0	0.000	0%
actual sq ft	0.2	0	0.000	0%
actual sq ft	0.5	141.5	0.047	21%
actual sq ft	0.1	0	0.000	0%
actual sq ft	0.2	5.6	0.002	1%
12	0.3	50.4	0.017	8%
50	0.6	0	0.000	0%
450	0.6	0	0.000	0%
65	0.8	0	0.000	0%
actual sq ft	0.1	0	0.000	0%
actual sq ft				0%
actual sq It	1.0	0	0.000	070
actual sq ft	0.2	0	0.000	0%

0.223 Green Score =

Required Score: Target Score: Actual Green Score:

Green Score District Requirements				
NR & UR	MR3 & MR4	MR5, MR6, & HR	FAB, CC, CB, CI	
0.35	0.25	0.20	0.20	
0.40	0.3	0.25	-	
0.223	0.223	0.223	0.223	





