

CITY OF SOMERVILLE

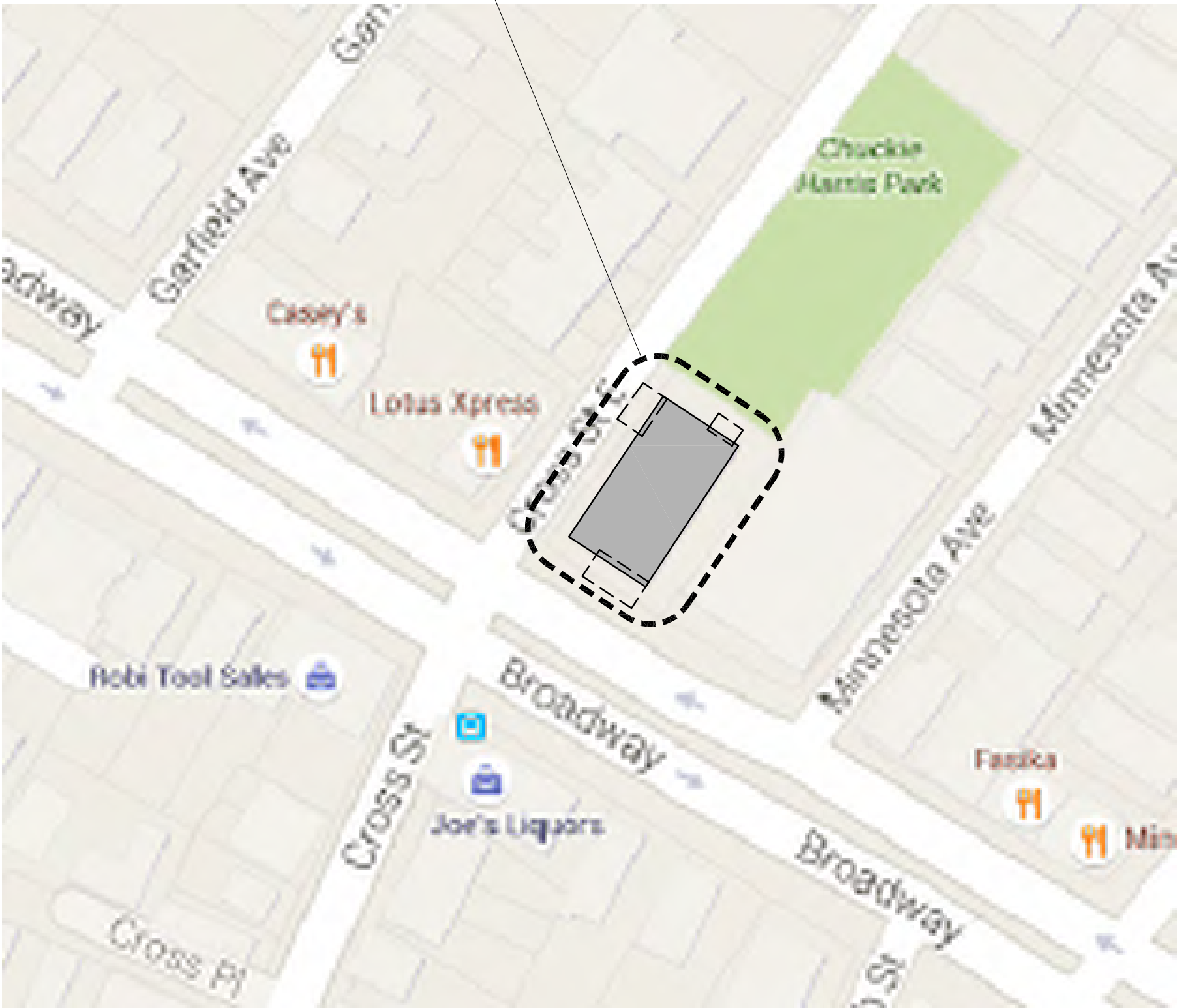
CROSS STREET SENIOR CENTER RENOVATIONS



NOTE:
CONTRACTOR TO FIELD VERIFY ALL
DIMENSIONS AND CONDITIONS.

LOCATOR MAP

CROSS STREET SENIOR CENTER
165 BROADWAY
SOMERVILLE, MA 02145



DRAWING SHEETS:

- ARCHITECTURAL**
G0-01 COVER SHEET
G0-02 FIRST FLOOR DEMOLITION KEY PLAN
AND FIRST FLOOR KEY PLAN
D1-01 FOOD PANTRY DEMOLITION ROOF
PLAN AND FIRST FLOOR PLAN
A1-01 FOOD PANTRY ROOF, FIRST FLOOR
AND REFLECTED CEILING PLAN
A1-02 RESTROOM DEMOLITION PLAN,
RESTROOM PLAN AND PARTITION
SECTIONS
A2-01 FOOD PANTRY EXTERIOR
ELEVATIONS AND DETAILS
A4-01 FOOD PANTRY INTERIOR
ELEVATIONS
A4-02 FOOD PANTRY INTERIOR
ELEVATIONS AND DETAILS
A4-03 RESTROOM ELEVATIONS
A4-04 RESTROOM ELEVATIONS AND
FIXTURE DETAILS
A5-01 STAIR PLAN, HANDRAIL ELEVATIONS
AND DETAILS
A5-02 FRONT ENTRY SLOPED SIDEWALK
PLANS, ELEVATIONS AND DETAILS
A5-03 FRONT ENTRY SLOPED SIDEWALK
SECTIONS AND DETAILS
A5-04 FRONT ENTRY DOOR ELEVATIONS
AND SECTIONS
A5-05 FOOD PANTRY ROOF DETAILS AND
SECTIONS
A6-01 FOOD PANTRY / RESTROOMS FINISH
SCHEDULE, DOOR SCHEDULE, DOOR
DETAILS AND ROOF DETAILS

STRUCTURAL

- S1-01 ROOF FRAMING PLAN AND DETAILS
- PLUMBING**
P001 PLUMBING LEGEND NOTES &
SCHEDULES
P100 PLUMBING RESTROOM RENOVATION
PLAN
P101 PLUMBING RESTROOM RENOVATION
PLAN
P102 PLUMBING FOOD PREP RENOVATION
PLAN
P103 PLUMBING FOOD PREP RENOVATION
PLAN

MECHANICAL

- H100 HVAC PART PLANS, LEGEND,
SCHEDULES & DETAILS
H101 HVAC FIRST FLOOR PLANS
- ELECTRICAL**
E001 LEGEND AND NOTES
E100 FIRST FLOOR BATHROOM PLANS
AND FOOD PANTRY PLANS

GENERAL NOTES:

- G0 THE CITY OF SOMERVILLE AND CBI CONSULTING INC. SHALL BE ADDED AS
ADDITIONAL INSUREDS TO THE CONTRACTOR'S COMMERCIAL GENERAL
LIABILITY , AUTOMOBILE LIABILITY AND UMBRELLA POLICIES FOR THE
PROJECT. ALL OF THE CONTRACTOR'S INSURERS SHALL PROVIDE A
WAIVER OF SUBROGATION IN FAVOR OF CITY OF SOMERVILLE AND CBI
CONSULTING INC.
- G1 CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND
COORDINATING ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. IN
CASE OF CONFLICT, THE ARCHITECT SHALL BE NOTIFIED AND SHALL
RESOLVE THE CONFLICT. THE CONTRACTOR SHALL FIELD VERIFY ALL
DIMENSIONS AND CONDITIONS.
- G2 IN ANY CASE OF CONFLICT BETWEEN OR WITHIN THE DRAWINGS AND THE
PROJECT SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL
GOVERN, AT THE SOLE DISCRETION OF THE ARCHITECT.
- G3 THE CONTRACTOR SHALL MAKE NO DEVIATION FROM DESIGN DRAWINGS
WITHOUT PRIOR REVIEW BY THE ARCHITECT.
- G4 WORK NOT INDICATED ON A PART OF THE DRAWINGS BUT REASONABLY
IMPLIED TO BE SIMILAR TO THAT SHOWN AT CORRESPONDING PLACES
SHALL BE REPEATED, ANY CONDITION FOUND NOT DETAILED SHALL BE
CONSTRUCTED IN A MANNER SIMILAR TO THAT OF THE TYPICAL DETAILS.
- G5 ALL WORK SHALL COMPLY WITH APPLICABLE CODES AND LOCAL LAWS
AND REGULATIONS.
- G6 GENERAL CONTRACTOR SHALL COORDINATE LOCATIONS OF OPENINGS,
PITS, BOXES, SUMPS, TRENCHES, SLEEVES, DEPRESSIONS, GROOVES,
AND CHAMFERS, WITH MECHANICAL, ELECTRICAL AND PLUMBING
TRADES.
- G7 THE STRUCTURAL DESIGN OF THE BUILDING IS BASED ON THE FULL
INTERACTION OF ALL ITS COMPONENT PARTS. NO PROVISIONS HAVE
BEEN MADE FOR CONDITIONS OCCURRING DURING CONSTRUCTION. IT IS
THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO MAKE PROPER AND
ADEQUATE PROVISIONS FOR STABILITY OF, AND ALL STRESSES TO, THE
STRUCTURE DUE TO ANY CAUSE DURING CONSTRUCTION.
- G8 CONTRACTOR SHALL NOT SCALE DRAWINGS. CONTRACTOR SHALL
REQUEST ALL DIMENSIONS OR INFORMATION REQUIRED TO PERFORM
THE WORK FROM THE ARCHITECT. WORK COMPLETED BY THE
CONTRACTOR WITHOUT DIMENSIONS OR INFORMATION SHALL BE DONE
AT HIS OWN RISK AND SHALL BE REMOVED AND REINSTALLED TO THE
SPECIFICATIONS OF THE ARCHITECT AT NO ADDITIONAL COST TO THE
OWNER.
- G9 MEANS AND METHODS OF CONSTRUCTION AS WELL AS COMPLIANCE
WITH OSHA AND OTHER SAFETY LAWS AND REGULATIONS IS EXCLUSIVE
RESPONSIBILITY OF THE CONTRACTOR, HIS SUBCONTRACTOR(S),
SUPPLIERS, CONSULTANTS AND SERVANTS.
- G10 FOR ALL ITEMS THAT ARE TO BE REUSED AND/OR REINSTALLED AS PART
OF THE WORK:
• ALL ITEMS THAT ARE TO REMAIN ARE TO BE PROTECTED FROM
DAMAGE. IF ANY DAMAGE OCCURS THE CONTRACTOR SHALL
REPAIR THE ITEM SO IT IS IN A LIKE NEW CONDITION OR REPLACE IT
WITH A NEW ITEM THAT FUNCTIONS THE SAME OR BETTER THAN
THE ORIGINAL ITEM.
• ALL ITEMS THAT ARE TO BE TEMPORARILY REMOVED &
REINSTALLED ARE TO BE CAREFULLY REMOVED AND MOVED TO A
PROTECTED AREA ON SITE OR TO AN OFF SITE FACILITY. THE ITEM
IS TO BE CLEANED AND PREPARED FOR REINSTALLATION. ALL
FITTINGS AND CONNECTION POINTS ARE TO BE INSPECTED AND
REPAIRED. PROVIDE NEW FASTENERS AND CAREFULLY TRANSPORT
THE ITEM BACK TO ITS ORIGINAL LOCATION AND CAREFULLY
REINSTALL. IF ANY DAMAGE OCCURS THE CONTRACTOR SHALL
REPAIR THE ITEM SO IT IS IN A LIKE NEW CONDITION OR REPLACE IT
WITH A NEW ITEM THAT FUNCTIONS THE SAME OR BETTER THAN
THE ORIGINAL ITEM.

LIST OF ABBREVIATIONS

A.F.F.	ABOVE FINISH FLOOR
APPROX.	APPROXIMATE
BIT.	BITUMINOUS
BUR	BUILT UP ROOFING
CB	CATCH BASIN
CMU	CONCRETE MASONRY UNIT
CONC.	CONCRETE
CONT.	CONTINUOUS
D.S.	DOWNSPOUT
EQ.	EQUAL
E.W.	EACH WAY
FD	FLOOR DRAIN
HC	HANDICAP
HT	HEIGHT
I IN	INVERT IN
I OUT	INVERT OUT
ID	INTERIOR DIAMETER
L.C.C.	LEAD COATED COPPER
MAX.	MAXIMUM
MIN.	MINIMUM
M.O.	MASONRY OPENING
N/A	NOT APPLICABLE
N.I.C.	NOT IN CONTRACT
N.T.S.	NOT TO SCALE
O.C.	ON CENTER
OD	OVERHEAD DOOR
O.H.	OPPOSITE HAND
PAV.	PAVERS
P.T.	PRESSURE TREATED
SIM.	SIMILAR TO
S.S.	STAINLESS STEEL
T.	TREAD
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V.I.F.	VERIFY IN FIELD
VCB	VINYL COVE BASE
W/	WITH
Z.C.C.	ZINC COATED COPPER
Ø	DIAMETER
+/-	PLUS OR MINUS

SYMBOL LEGEND

	SEE DETAIL 88 ON SHEET AX-XX
	BREAK LINE
	DIMENSION LINE
	EXTENT
	DOOR TAG
	WINDOW TAG

CONTACT INFORMATION:

Architect



250 DORCHESTER AVENUE
BOSTON, MA 02127

P: (617) 268-8977
F: (617) 464-2971

cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

Owner

City of Somerville
Capital Projects and Planning Department
One Franey Road
Somerville, MA 02145
Contact : Edward Nuzzo
Email: ENuzzo@somervillema.gov



250 DORCHESTER AVENUE
BOSTON, MA 02127

P: (617) 268-8977
F: (617) 464-2971

cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF
SOMERVILLE
CROSS STREET
SENIOR CENTER
RENOVATIONS



CAPITAL PROJECTS AND
PLANNING DEPARTMENT
ONE FRANNEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

COVER SHEET

Revisions:

Submission:

BIDDING DOCUMENTS

Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: MF
Scale: N.T.S.

G0-01

P:\2015\15036-C\AutoCAD\Sheets\15036-C G0-02.dwg Jul 28, 2016 - 6:34 pm AWILLET

FOOD PANTRY
LIMIT OF WORK
SEE DRAWING 2/D1-01

MEN'S AND WOMEN'S BATHROOMS
LIMIT OF WORK
SEE DRAWINGS 1/A1-02 AND A4-03

STAIR
LIMIT OF WORK
SEE DRAWING A5-01

FRONT ENTRY
LIMIT OF WORK
SEE DRAWING 1/A5-02

NOTE:
SEE DEMOLITION DRAWING D1-01 AND
DRAWINGS A1-02, A4-03 AND A5-02 FOR
DEMOLITION SCOPE OF WORK

1 FIRST FLOOR DEMOLITION KEY PLAN

SCALE: 1/8" = 1'-0"

FOOD PANTRY
LIMIT OF WORK
SEE DRAWING 2/A1-01

MEN'S AND WOMEN'S BATHROOMS
LIMIT OF WORK
SEE DRAWINGS 2/A1-02 AND A4-03

STAIR
LIMIT OF WORK
SEE DRAWING A5-01

FRONT ENTRY
LIMIT OF WORK
SEE DRAWING 2/A5-02

2 FIRST FLOOR KEY PLAN

SCALE: 1/8" = 1'-0"



CBI
CONSULTING INC.

250 DORCHESTER AVENUE
BOSTON, MA 02127

P: (617) 268-8977
F: (617) 464-2971

cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF SOMERVILLE CROSS STREET SENIOR CENTER RENOVATIONS



CAPITAL PROJECTS AND
PLANNING DEPARTMENT
ONE FRANNEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

FIRST FLOOR DEMOLITION KEY PLAN AND FIRST FLOOR KEY PLAN

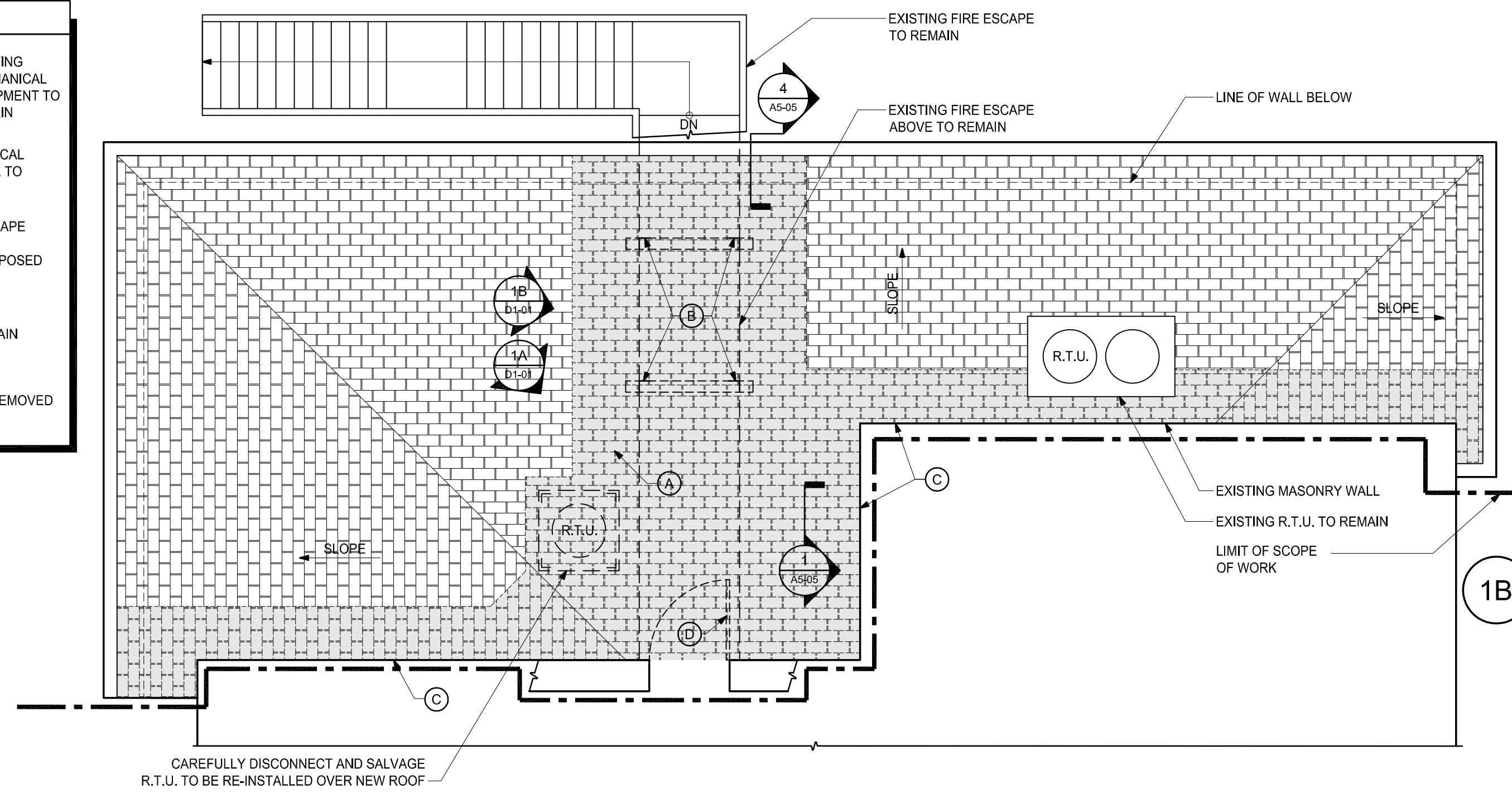
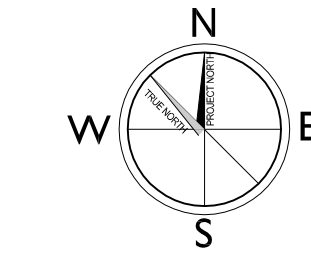
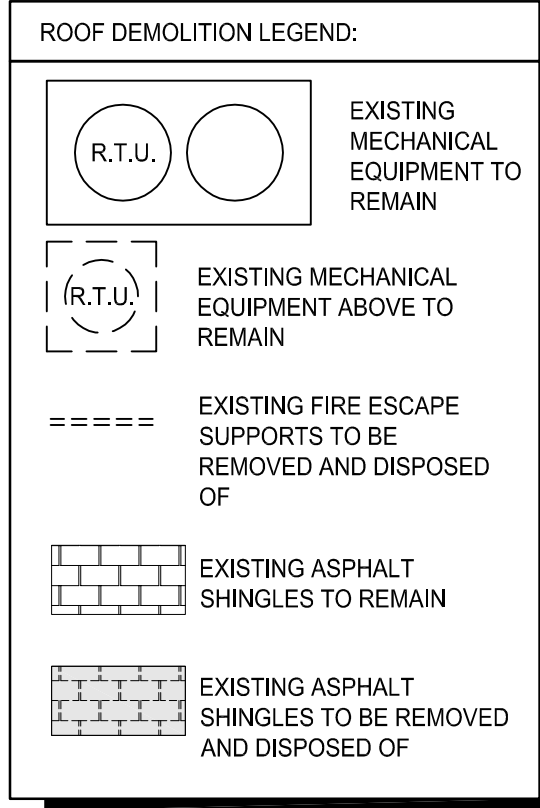
Revisions:

Submission:

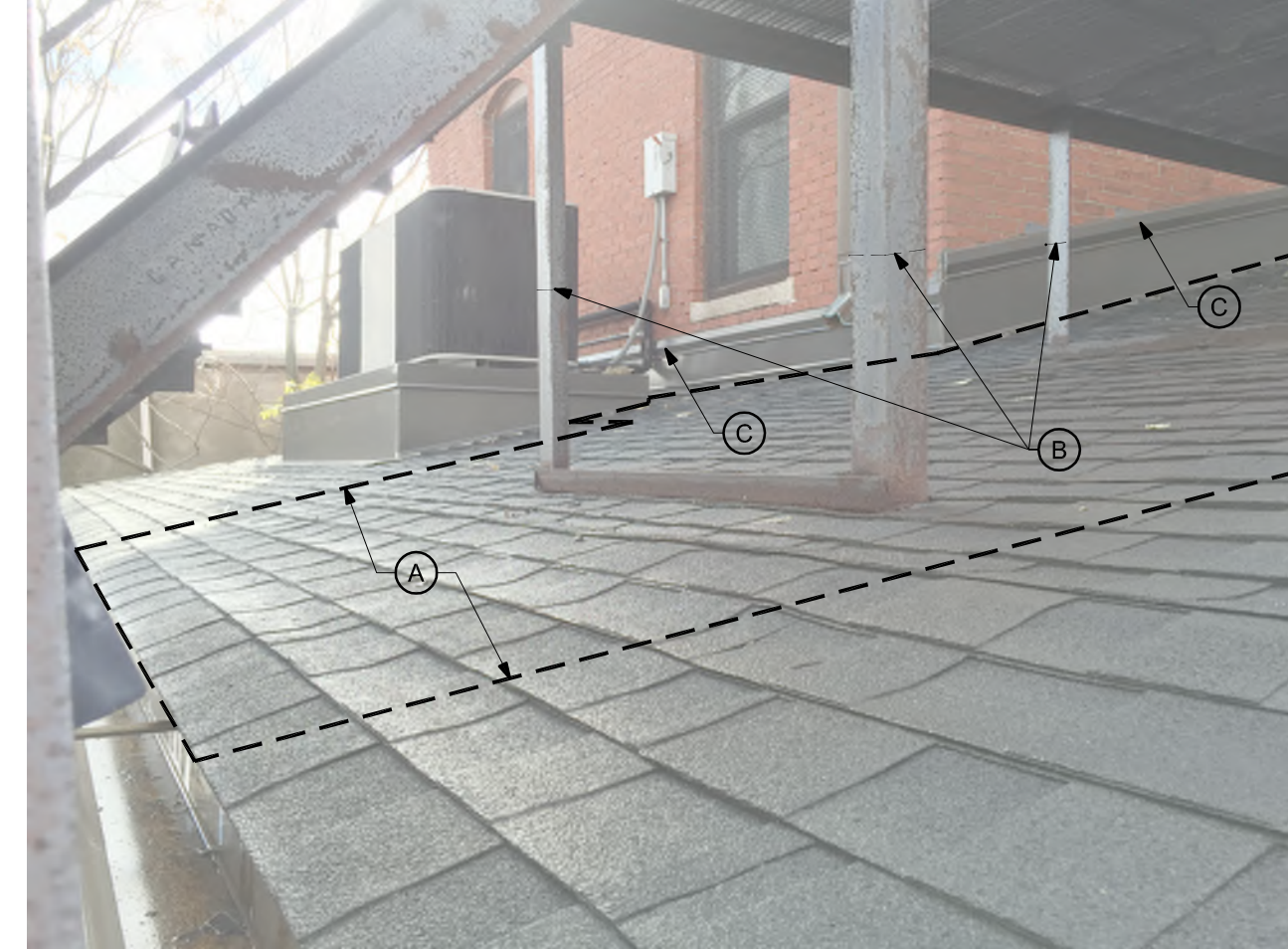
BIDDING DOCUMENTS

Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: MPS
Scale: 1/8" = 1'-0"

G0-02

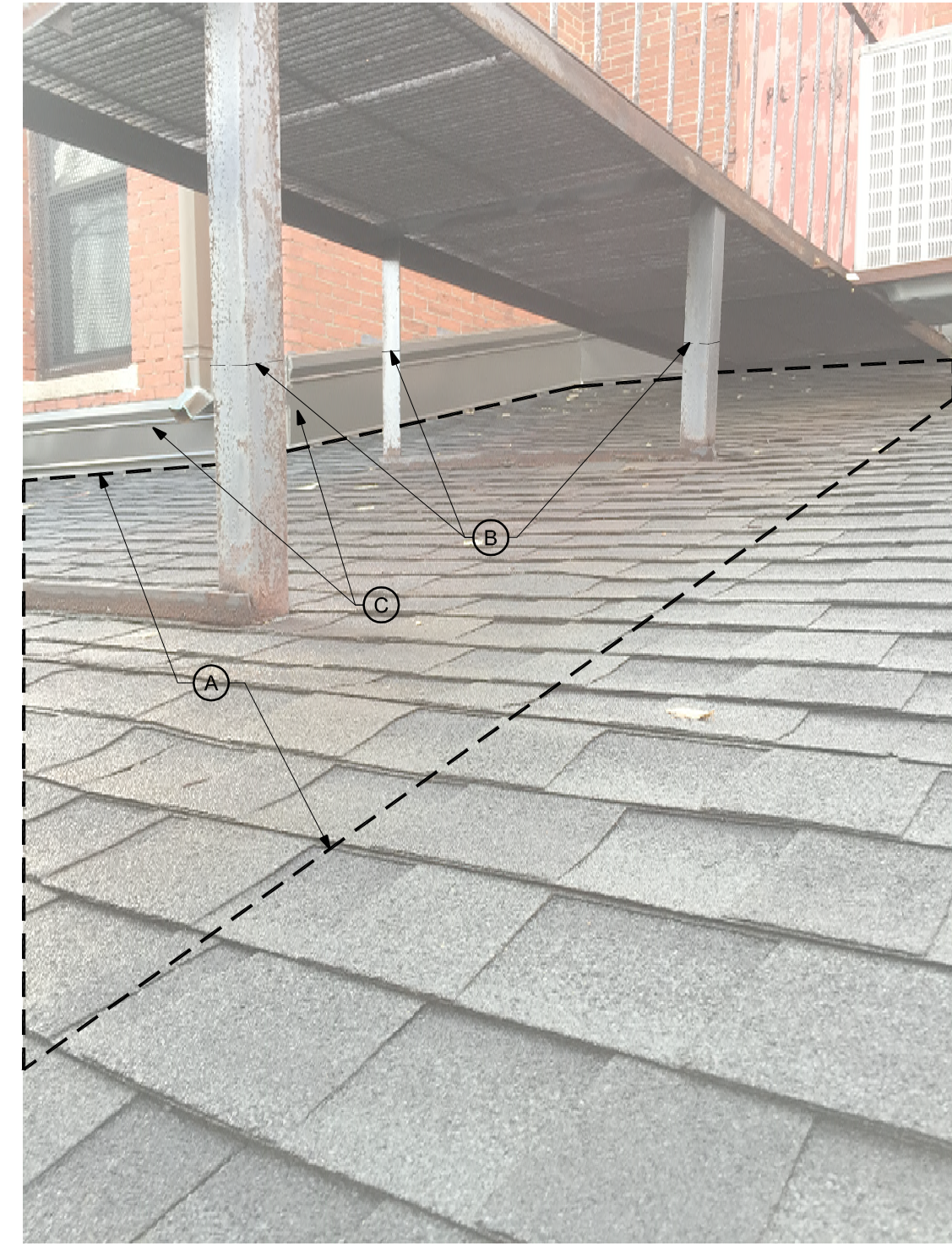


1 LOW ROOF DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



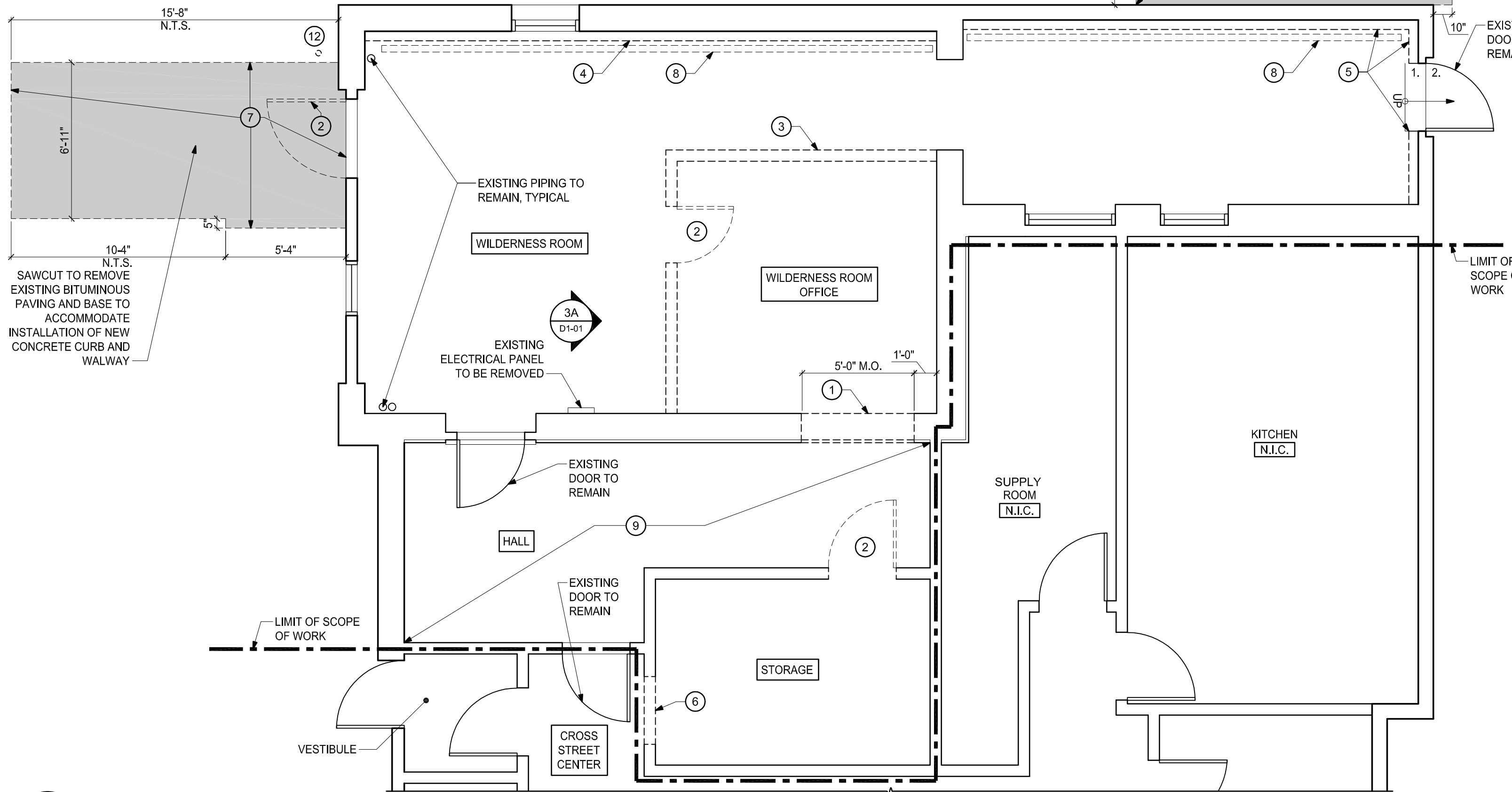
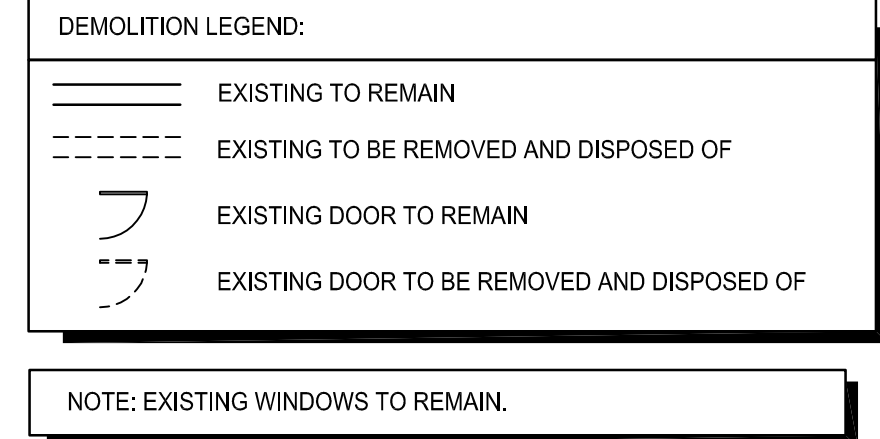
LOW ROOF DEMOLITION:
ASPHALT SHINGLES TO BE REMOVED
SCALE: N.T.S.

- DEMOLITION NOTES:
- (A) DEMOLISH AND DISPOSE OF EXISTING ASPHALT SHINGLE ROOFING AND BUILDING FELT.
 - (B) CUT EXISTING STEEL ANGLE FIRE ESCAPE SUPPORTS. SEE STRUCTURAL PLANS FOR EXTENT OF CUTTING.
 - (C) DEMOLISH AND DISPOSE OF EXISTING FLASHING AT MASONRY WALL
 - (D) DEMOLISH AND DISPOSE OF EXISTING DOOR



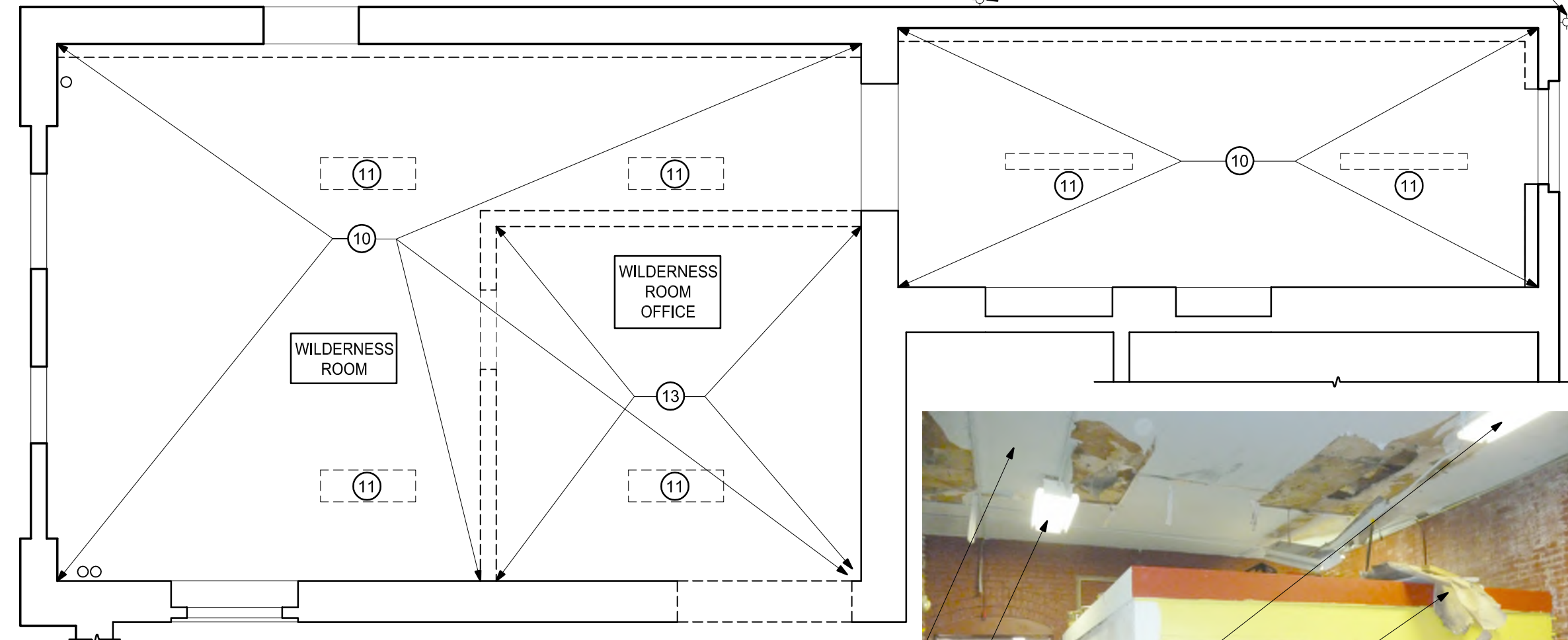
LOW ROOF DEMOLITION:
ASPHALT SHINGLES TO BE REMOVED
SCALE: N.T.S.

- GENERAL NOTES
- ALL DIMENSIONS ARE ± V.I.F. AND CONTRACTOR SHALL VERIFY ALL DIMENSIONS, QUANTITIES AND CONDITIONS IN THE FIELD.
 - CONTRACTOR SHALL PROVIDE ALL TEMPORARY BARRICADES TO PREVENT PEDESTRIANS FROM ACCESSING THE WORK AREA. ALL SIDEWALKS MUST REMAIN OPEN TO PEDESTRIAN TRAFFIC AT ALL TIMES FOR THE DURATION OF THE PROJECT.
 - ANY DISCREPANCIES NOTED BY THE CONTRACTOR BETWEEN OR WITHIN THE DRAWINGS AND/OR SPECIFICATIONS MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO BID SUBMISSIONS. THE MORE STRINGENT REQUIREMENT SHALL GOVERN AT THE FULL DISCRETION OF THE ARCHITECT.



2 FIRST FLOOR DEMOLITION PLAN AT FOOD PANTRY
SCALE: 1/4" = 1'-0"

- DEMOLITION NOTES:
- DEMOLISH AND DISPOSE OF MASONRY WALL AT NEW OPENING
 - DEMOLISH AND DISPOSE OF EXISTING DOOR
 - DEMOLISH AND DISPOSE OF GYPSUM WALL BOARD AND WOOD FRAMING OF THE WILDERNESS ROOM OFFICE
 - DEMOLISH AND DISPOSE OF EXISTING WOOD FRAMING AND INSULATION
 - DEMOLISH AND DISPOSE OF EXISTING GYPSUM WALL BOARD, FRAMING AND INSULATION
 - DEMOLISH AND DISPOSE OF EXISTING STUD AND GYPSUM BOARD WALL, SEE DOOR SCHEDULE FOR DOOR TO BE INSTALLED IN NEW OPENING.
 - CUT, DEMOLISH AND DISPOSE OF ASPHALT PAVING. EXCAVATE FOR CONCRETE PAD.
 - DEMOLISH AND DISPOSE OF EXISTING BASEBOARD HEAT. SEE MEP DRAWINGS.
 - DEMOLISH AND DISPOSE OF EXISTING CARPETING
 - DEMOLISH AND DISPOSE OF ENTIRE EXISTING GYPSUM BOARD CEILING
 - DEMOLISH AND DISPOSE OF EXISTING LIGHTING
 - DEMOLISH AND DISPOSE OF EXISTING POST MOUNTED SIGN AND FOOTING
 - DEMOLISH AND DISPOSE OF ENTIRE EXISTING LOWERED WOOD FRAMED CEILING, SEE PHOTO 3A/D1-01; INCLUDING WOOD FRAMING, GYPSUM BOARD FINISH AND TRIM



3 FIRST FLOOR DEMOLITION REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

- EXISTING GYPSUM WALL BOARD CEILING TO BE DEMOLISHED AND DISPOSED OF
- EXISTING LIGHTING TO BE DEMOLISHED AND DISPOSED OF, TYPICAL
- EXISTING WALLS, DOOR AND CEILING TO BE DEMOLISHED AND DISPOSED OF, TYPICAL



3A FOOD PANTRY CEILING PHOTO
SCALE: N.T.S.



250 DORCHESTER AVENUE
BOSTON, MA 02127
P: (617) 268-8977
F: (617) 464-2971
cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF
SOMERVILLE
CROSS STREET
SENIOR CENTER
RENOVATIONS



CAPITAL PROJECTS AND
PLANNING DEPARTMENT
ONE FRANNEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

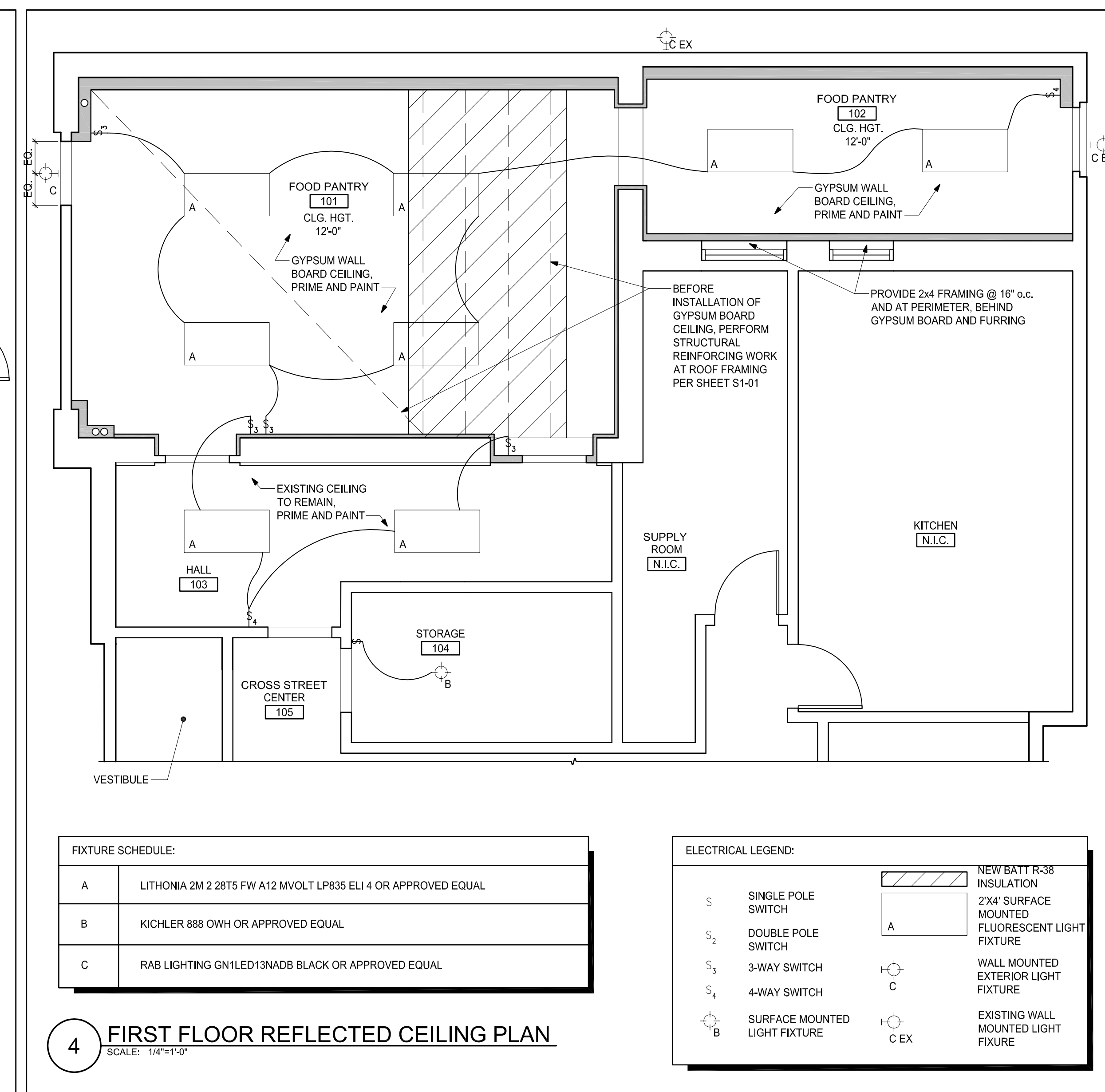
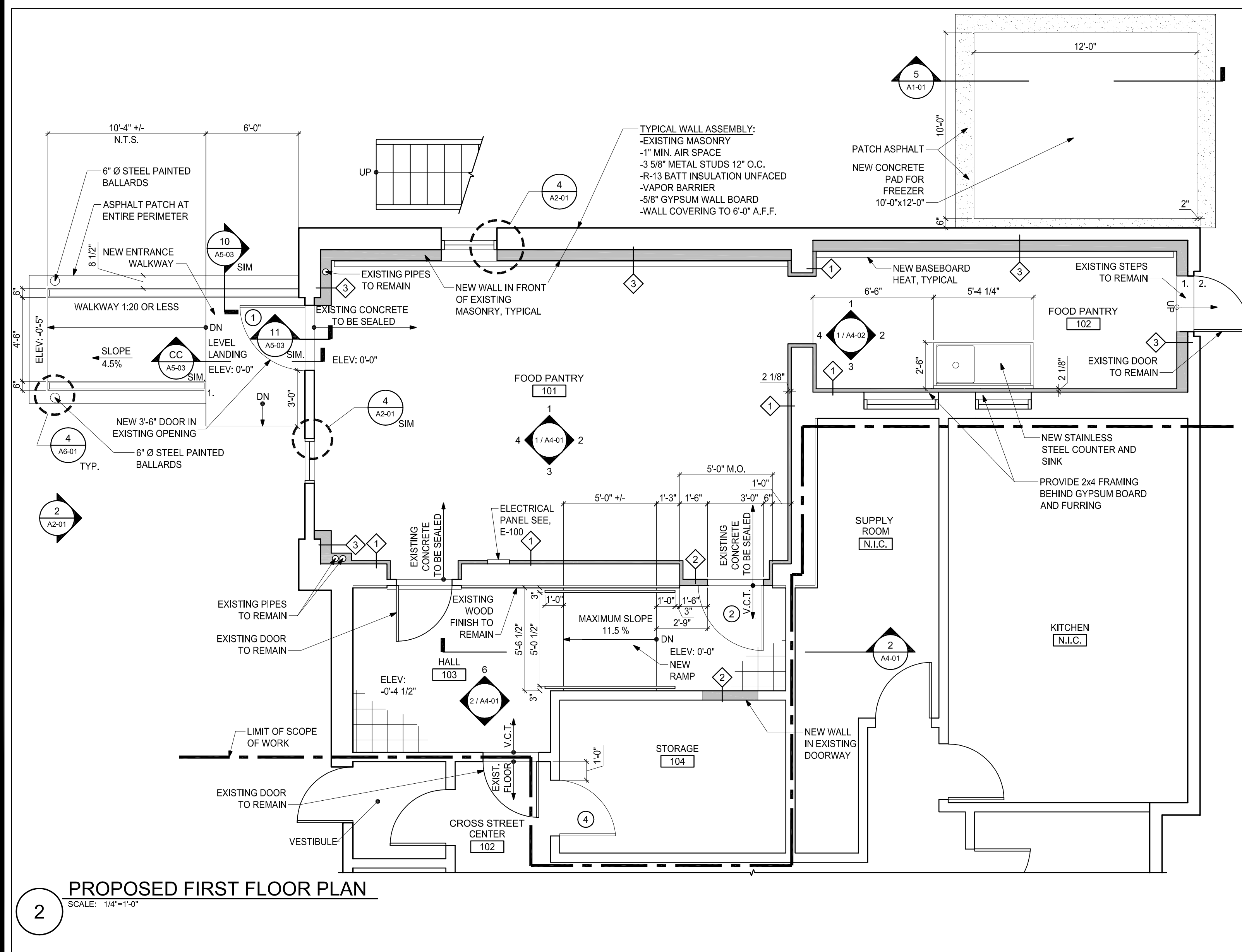
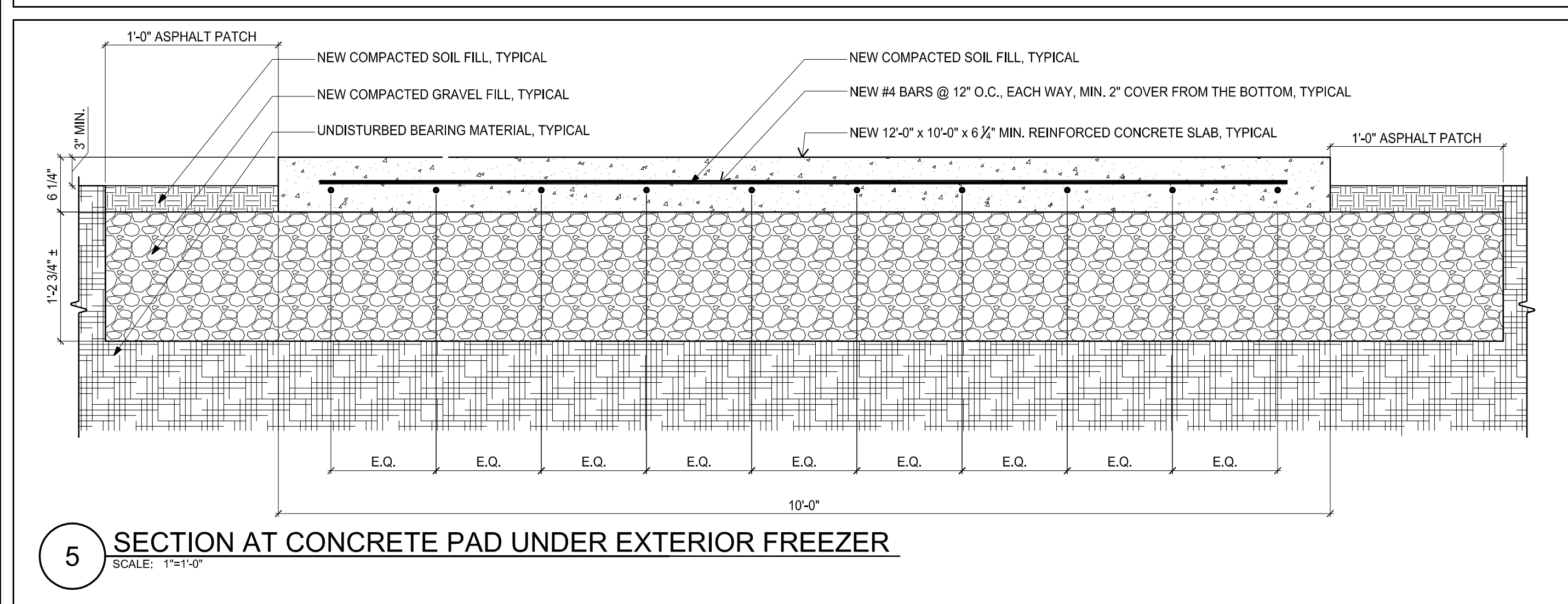
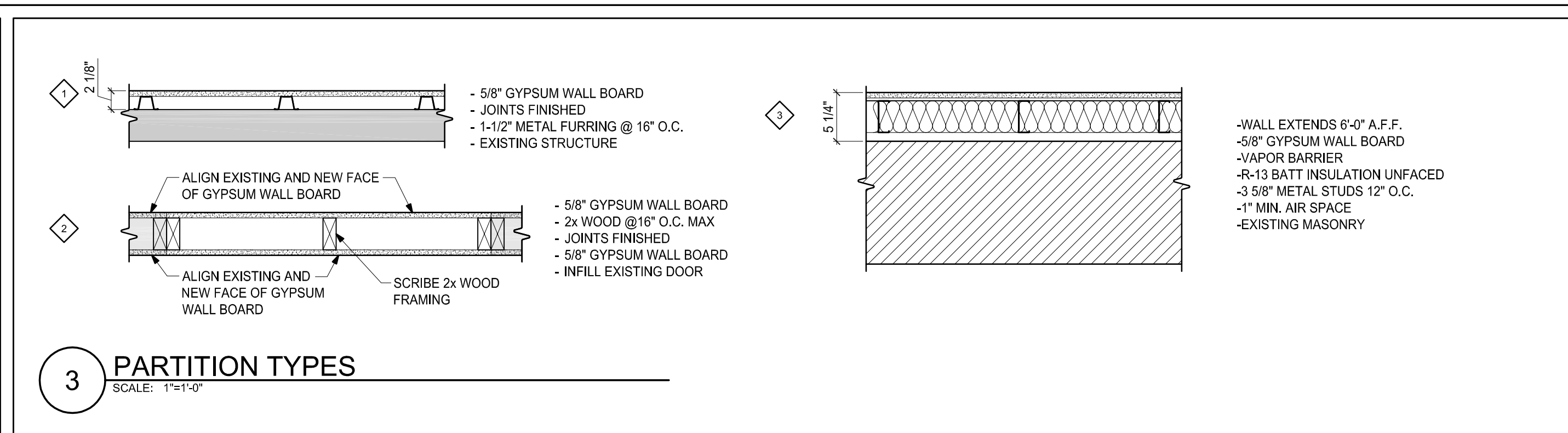
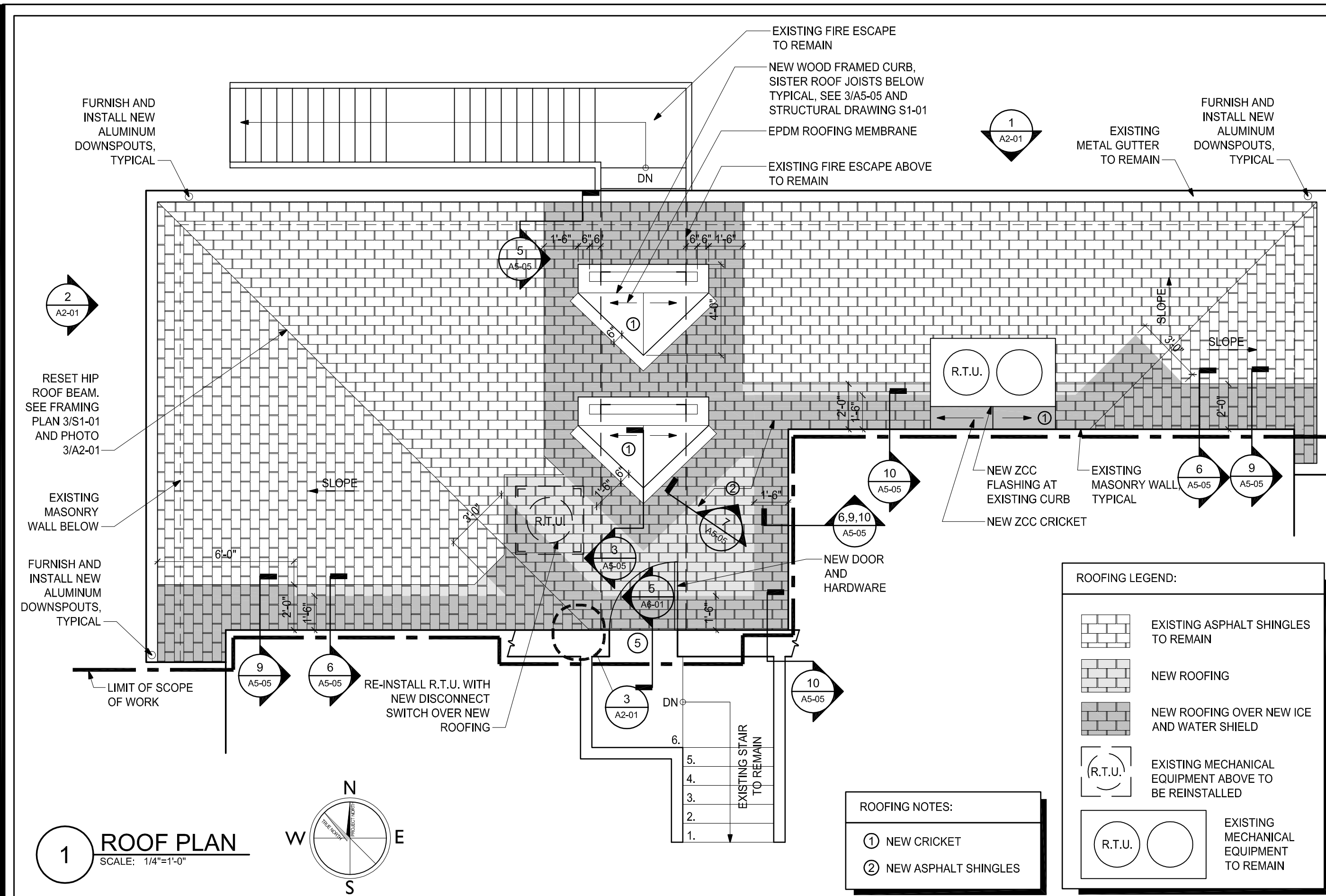
FOOD PANTRY
DEMOLITION ROOF
PLAN AND FIRST
FLOOR PLAN

Revisions:

BIDDING
DOCUMENTS

Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: EAD
Scale: 1/4"=1'-0"

D1-01



250 DORCHESTER AVENUE
BOSTON, MA 02127

P: (617) 268-8977
F: (617) 464-2971

cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF
SOMERVILLE
CROSS STREET
SENIOR CENTER
RENOVATIONS



**CAPITAL PROJECTS AND
PLANNING DEPARTMENT**
ONE FRANNEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

FOOD PANTRY ROOF, FIRST FLOOR AND REFLECTED CEILING PLAN

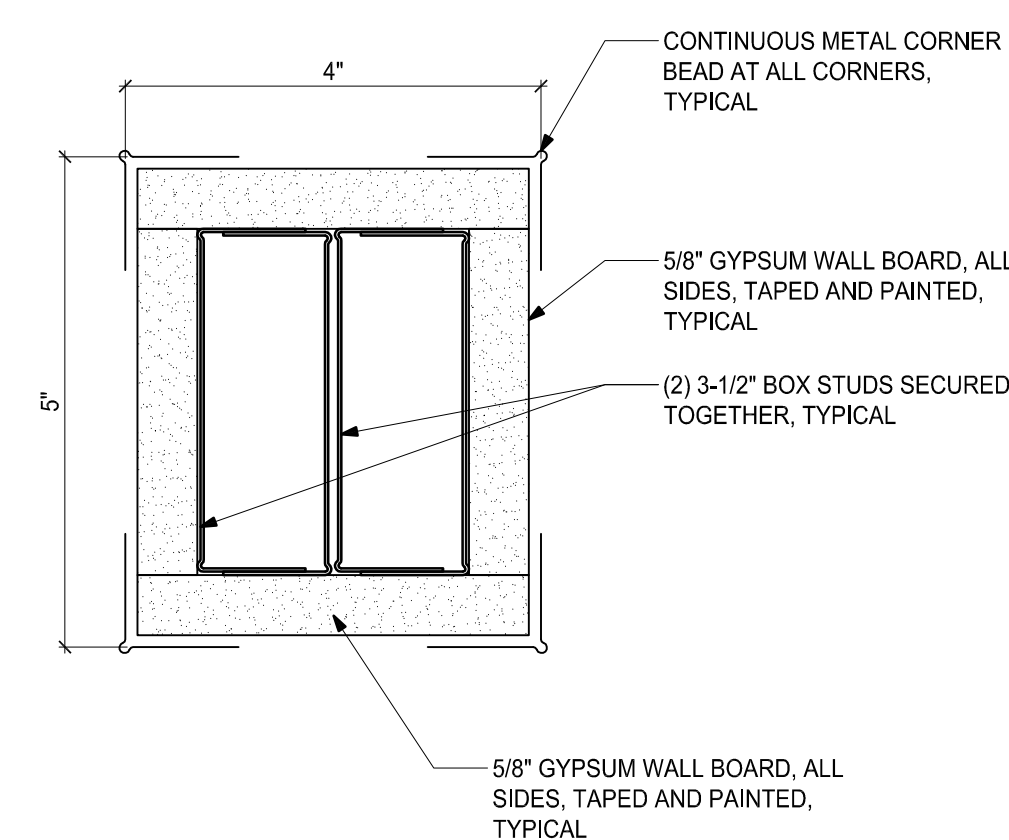
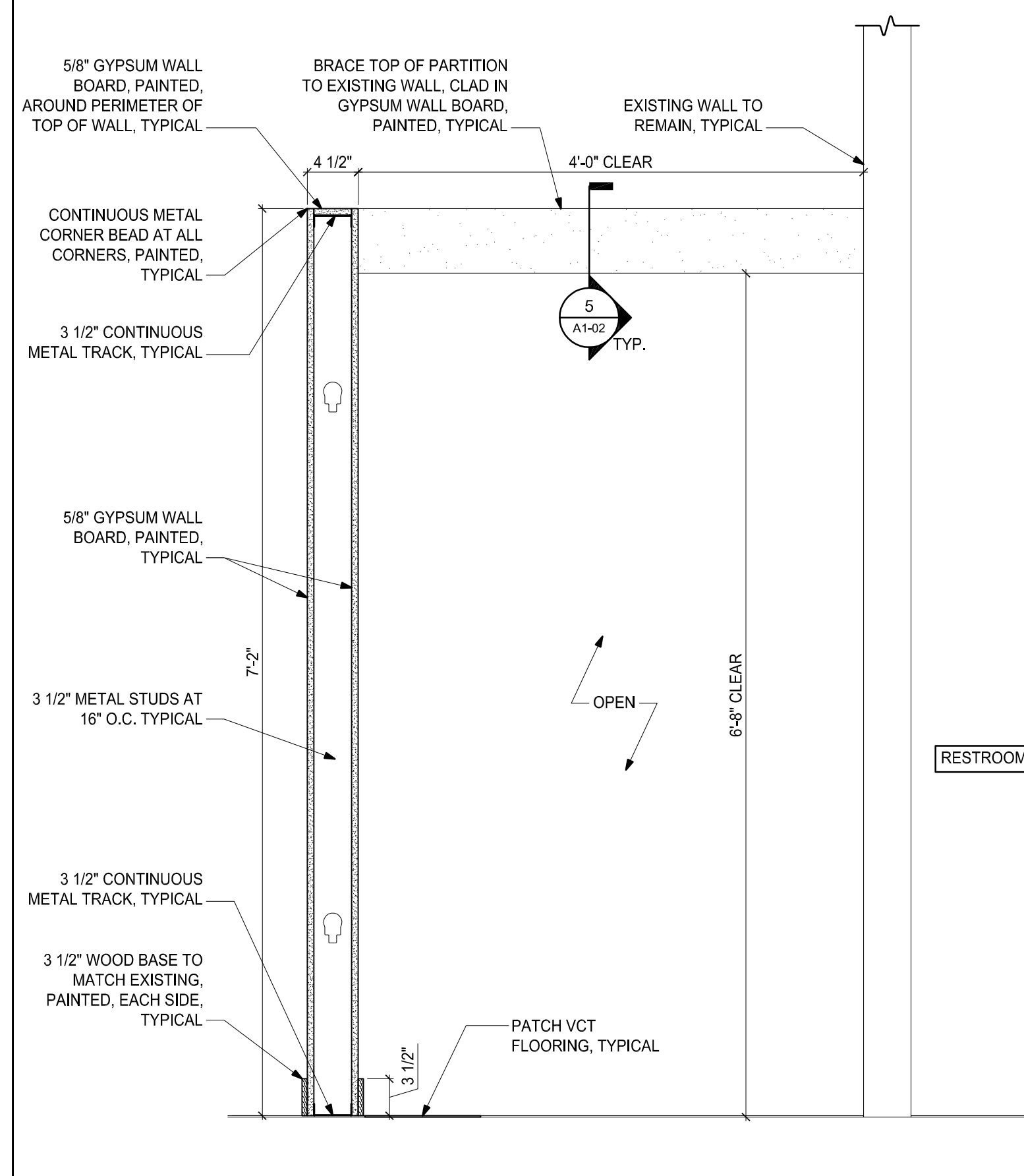
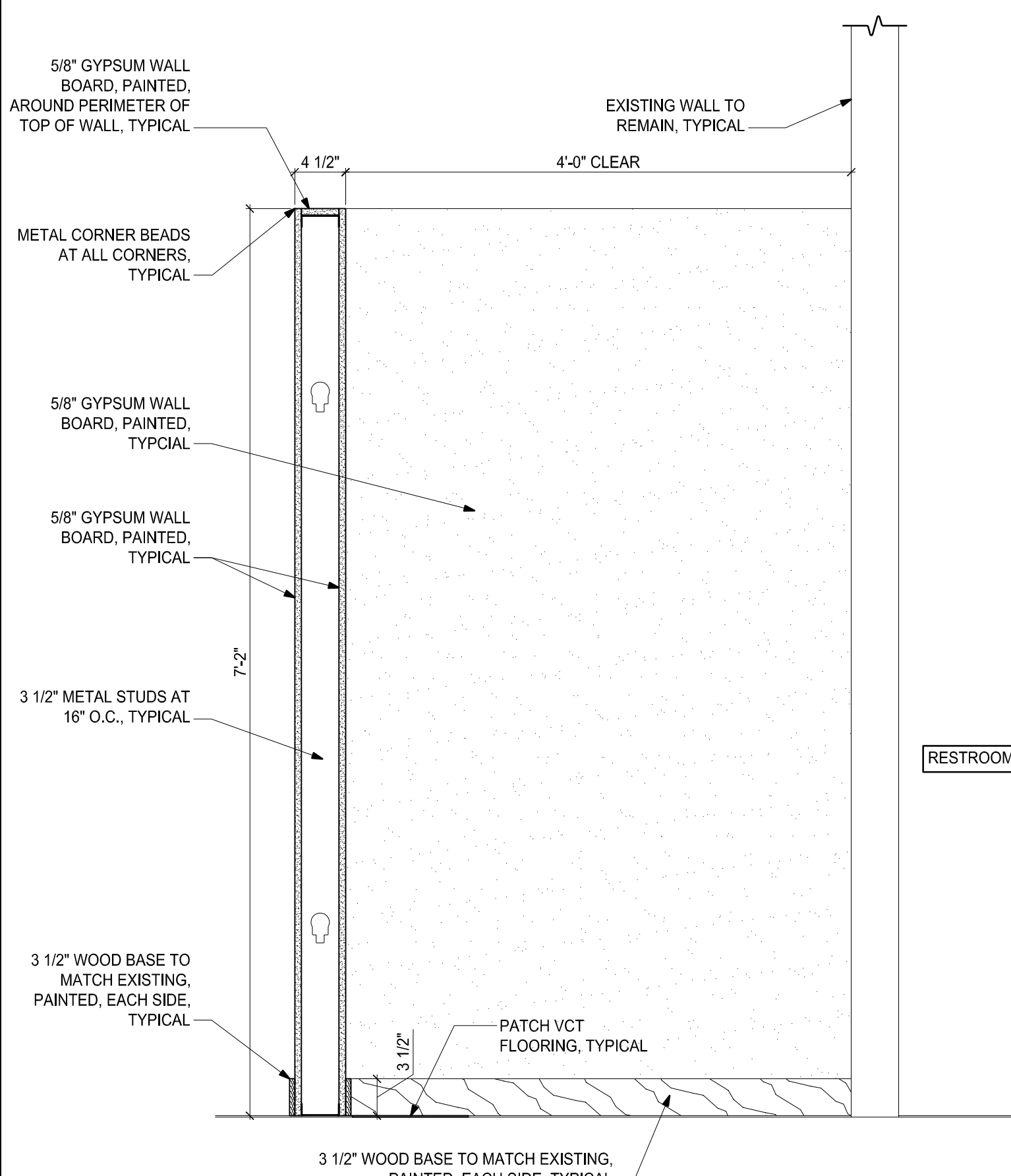
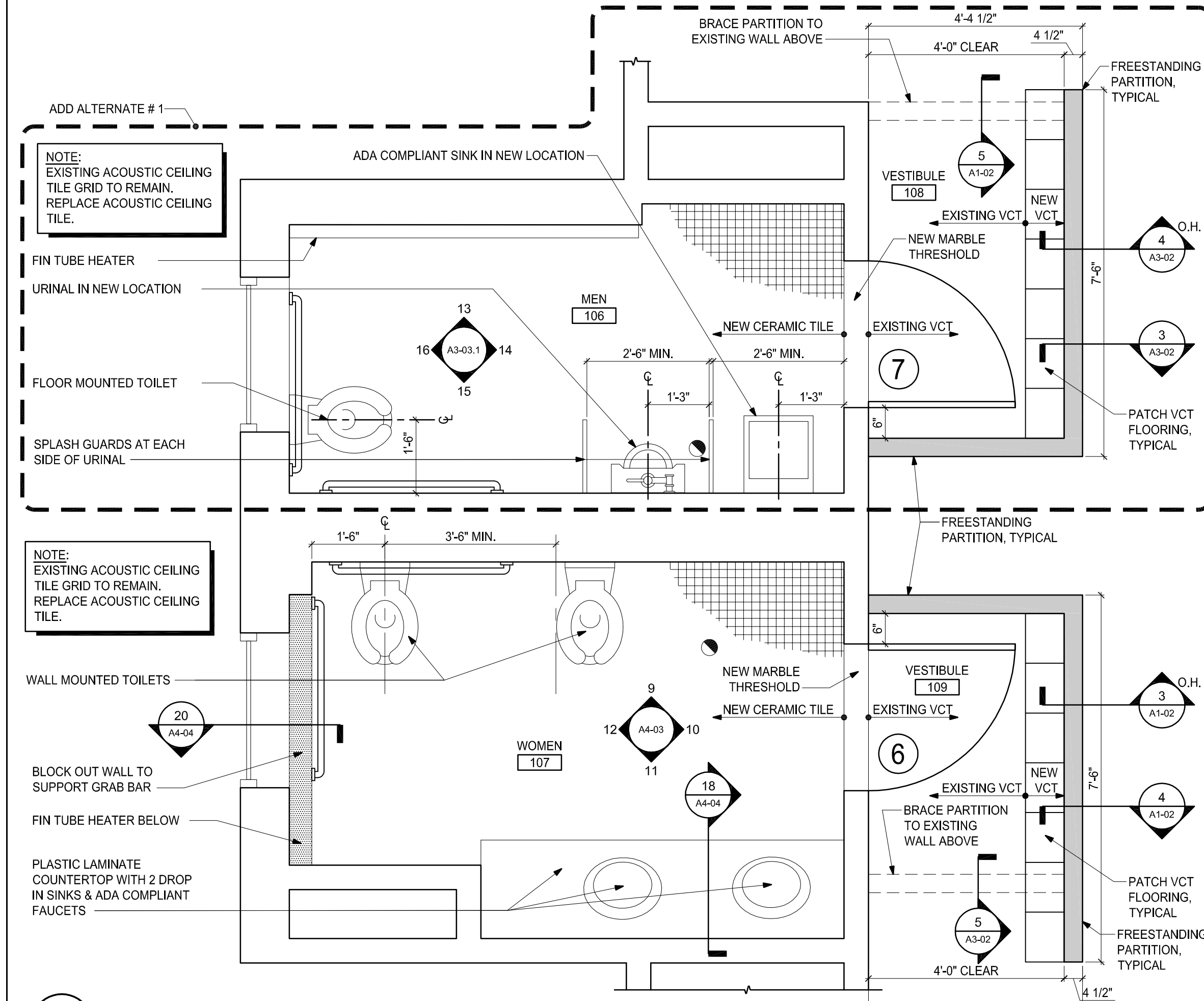
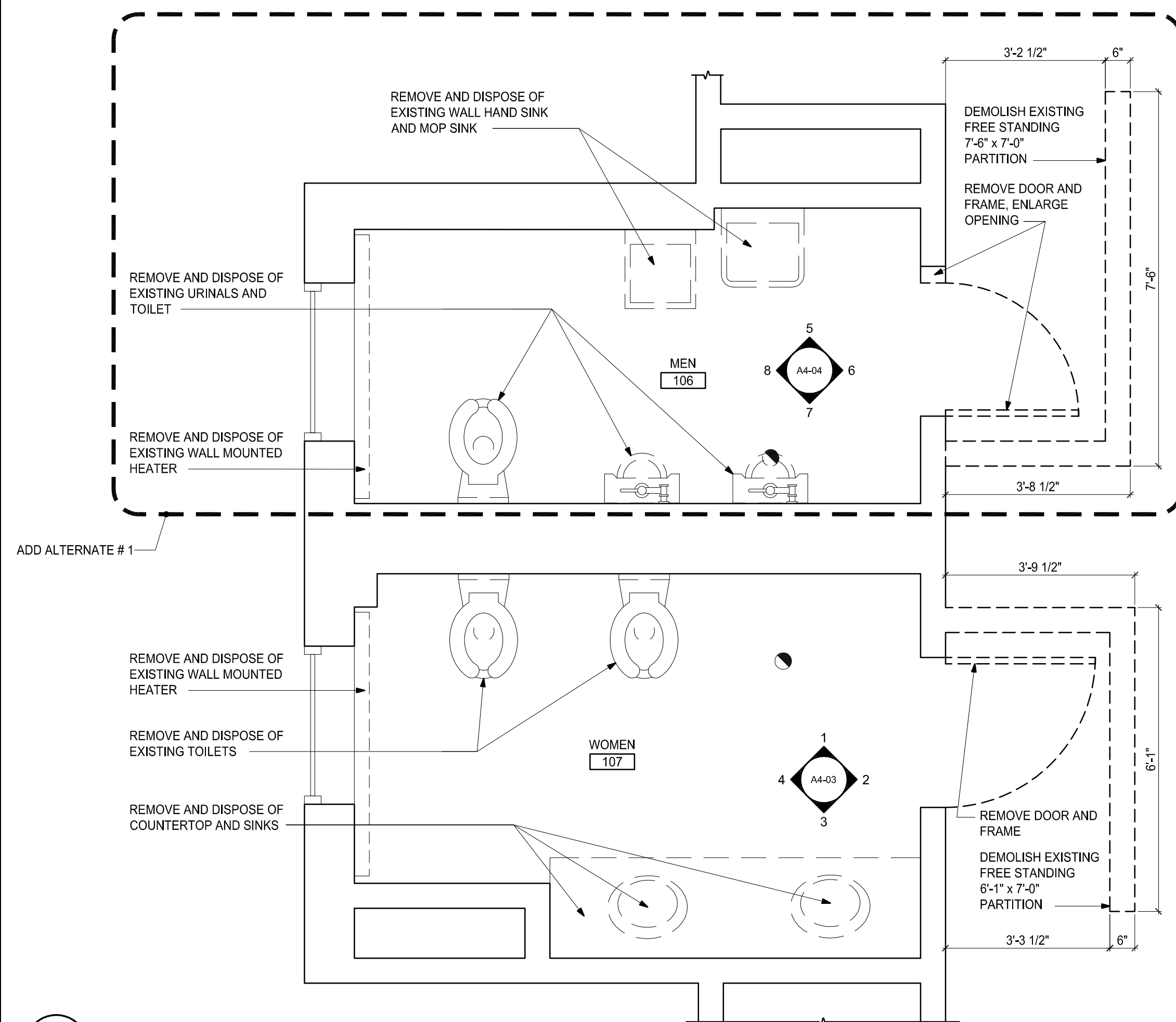
Revisions

Submission

BIDDING DOCUMENTS

Date: 07/29/11
Project Number: 15036-1
Project Manager: AMW
Drawn By: EAL
Scale: AS NOTED

AI-01



- GENERAL NOTES

1. ALL DIMENSIONS ARE \pm V.I.F. AND CONTRACTOR SHALL VERIFY ALL DIMENSIONS, QUANTITIES AND CONDITIONS IN THE FIELD.
2. CONTRACTOR SHALL PROVIDE ALL TEMPORARY BARRICADES TO PREVENT PEDESTRIANS FROM ACCESSING THE WORK AREA. ALL SIDEWALKS MUST REMAIN OPEN TO PEDESTRIAN TRAFFIC AT ALL TIMES FOR THE DURATION OF THE PROJECT.
3. ANY DISCREPANCIES NOTED BY THE CONTRACTOR BETWEEN OR WITHIN THE DRAWINGS AND/OR SPECIFICATIONS MUST BE BROUGHT TO THE ARCHITECT'S ATTENTION PRIOR TO BID SUBMISSIONS. THE MORE STRINGENT REQUIREMENT SHALL GOVERN AT THE FULL DISCRETION OF THE ARCHITECT.



CBI
CONSULTING INC.

250 DORCHESTER AVENUE
BOSTON, MA 02127

P: (617) 268-8977
F: (617) 464-2971

cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF
SOMERVILLE
CROSS STREET
SENIOR CENTER
RENOVATIONS



**CAPITAL PROJECTS AND
PLANNING DEPARTMENT**
ONE FRANNEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

RESTROOM DEMOLITION PLAN, RESTROOM PLAN AND PARTITION SECTIONS

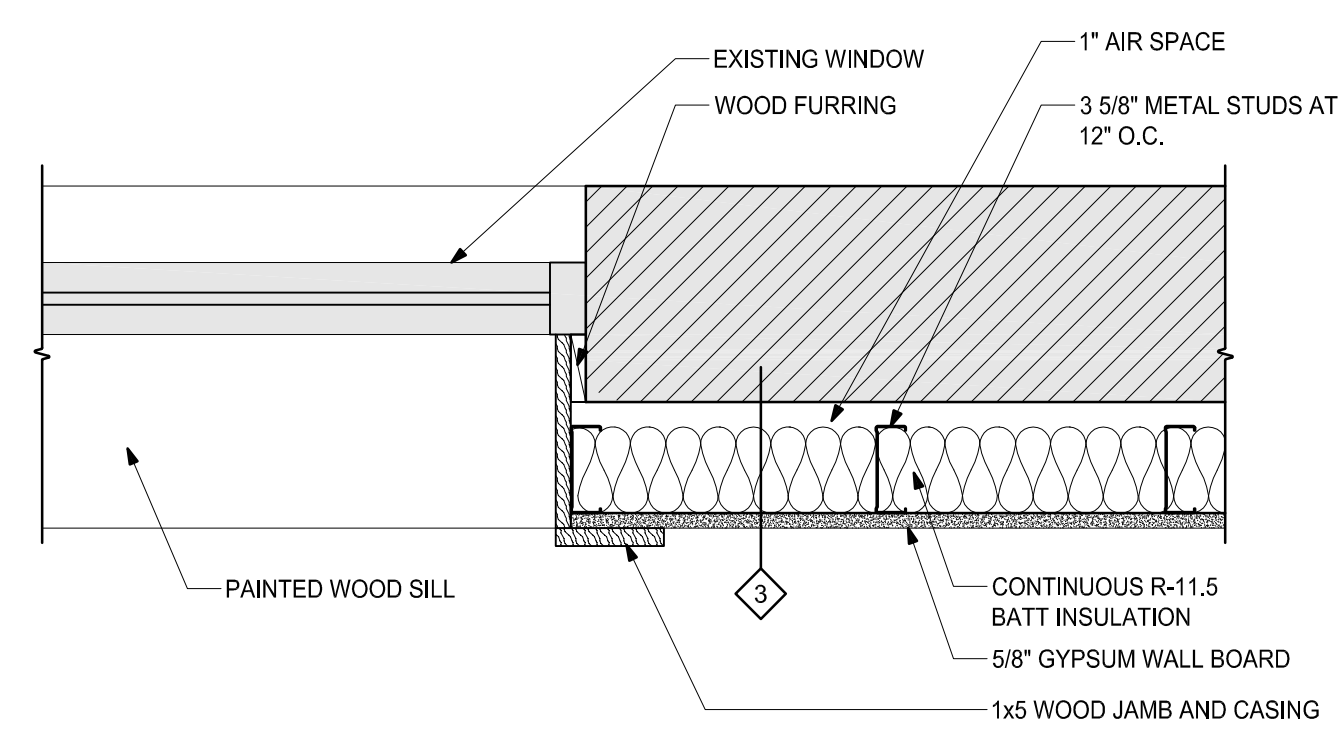
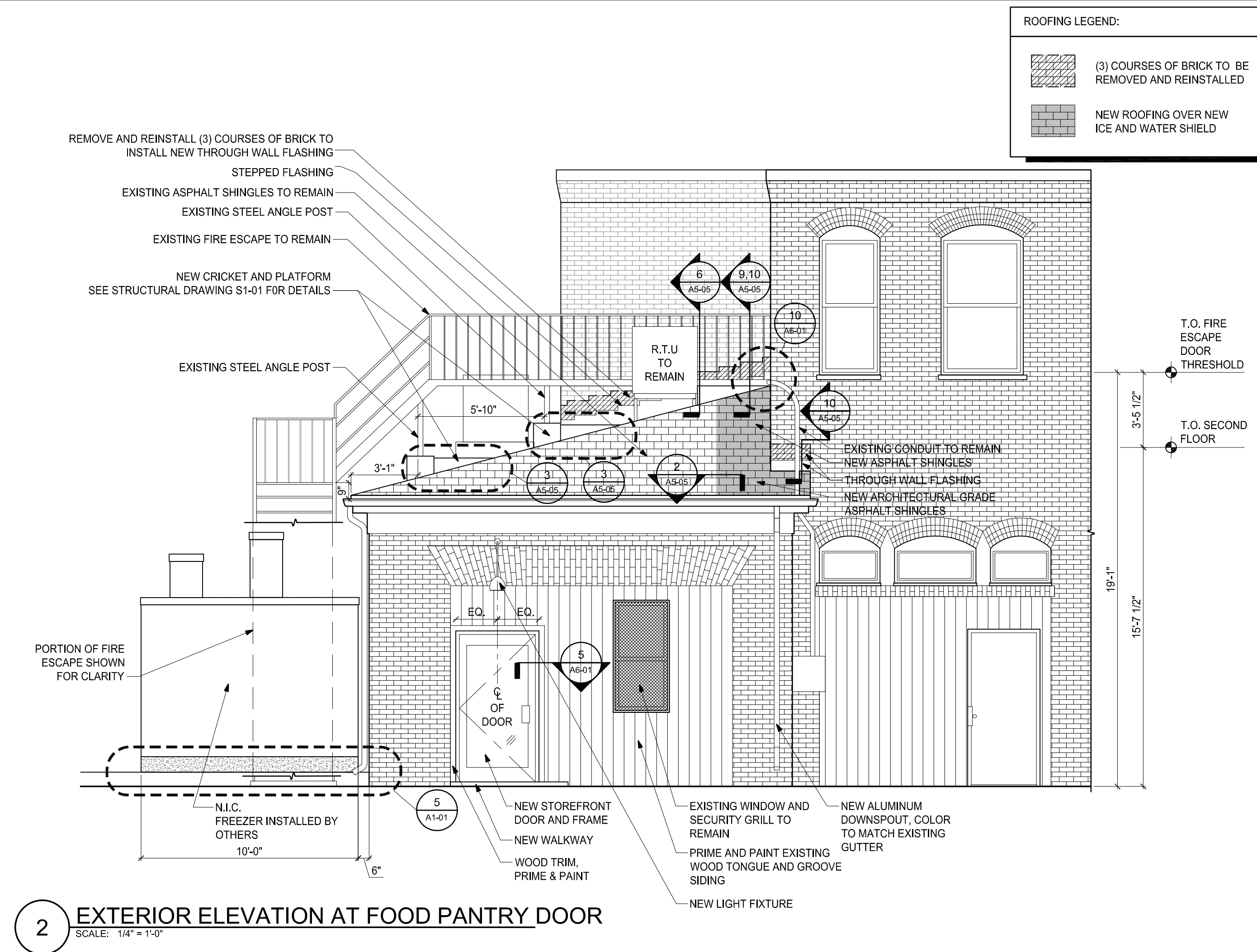
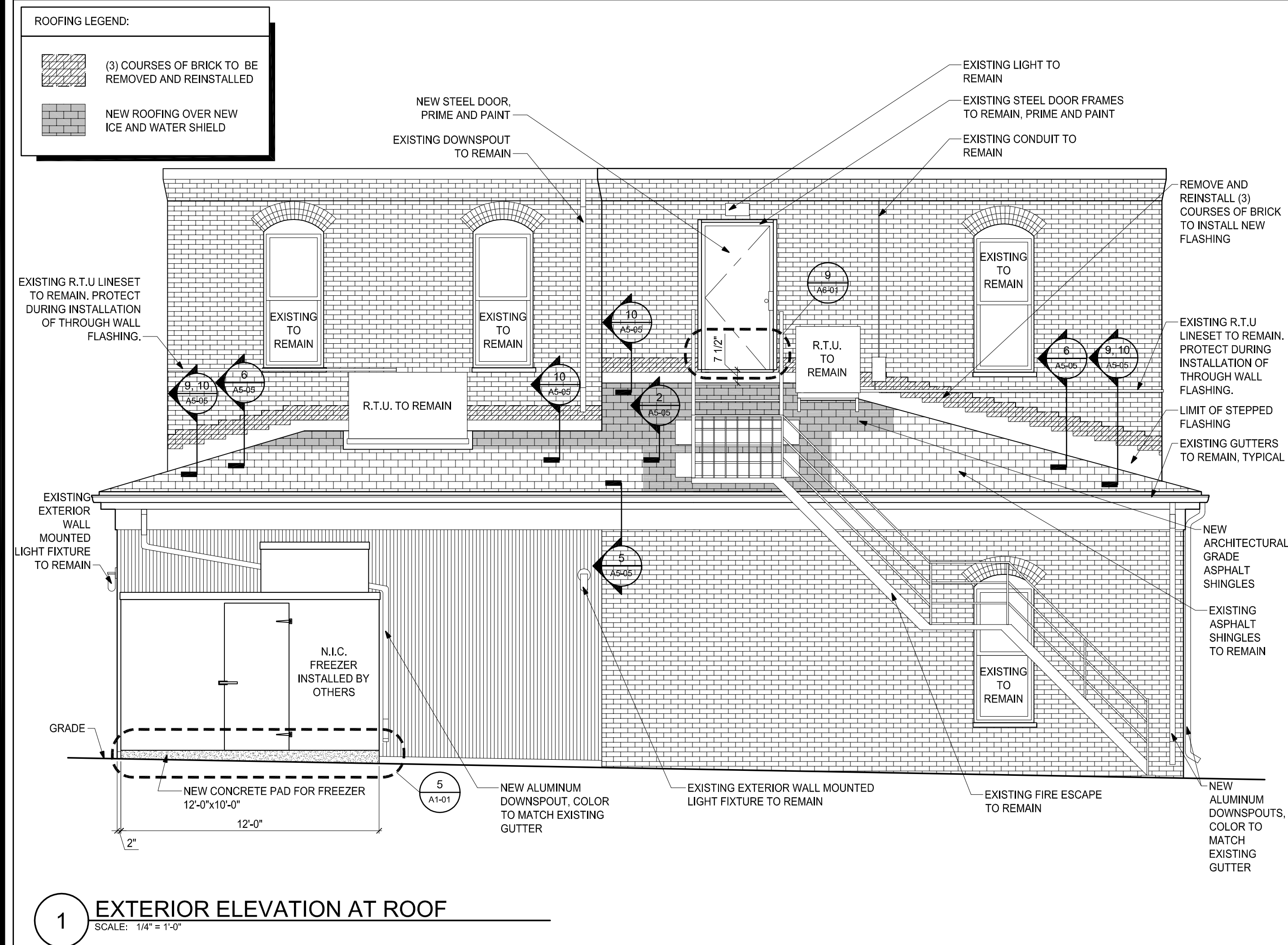
Revisions:

Submission:

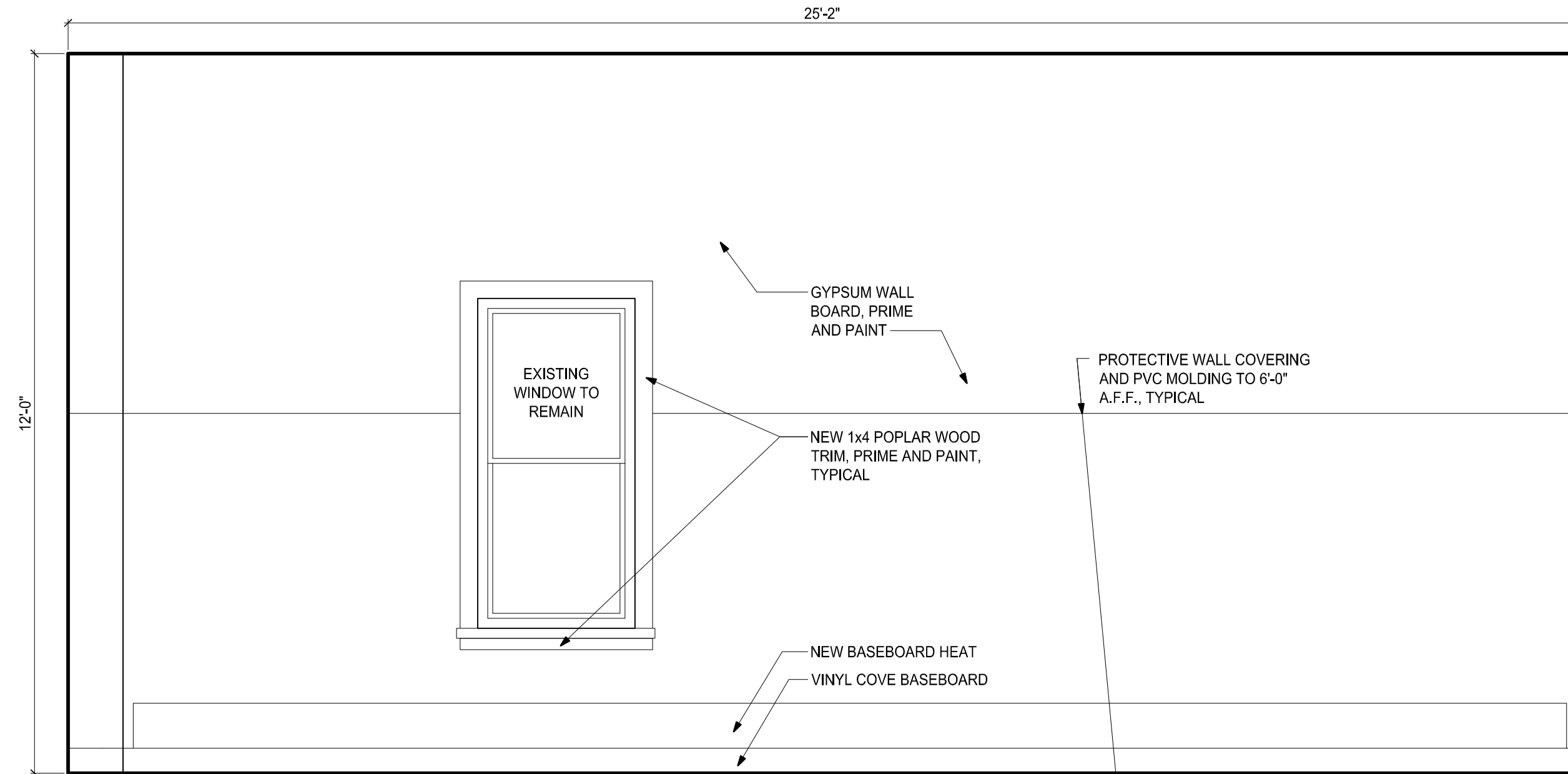
BIDDING DOCUMENTS

Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: MPS
Scale: 1/8" = 1'-0"

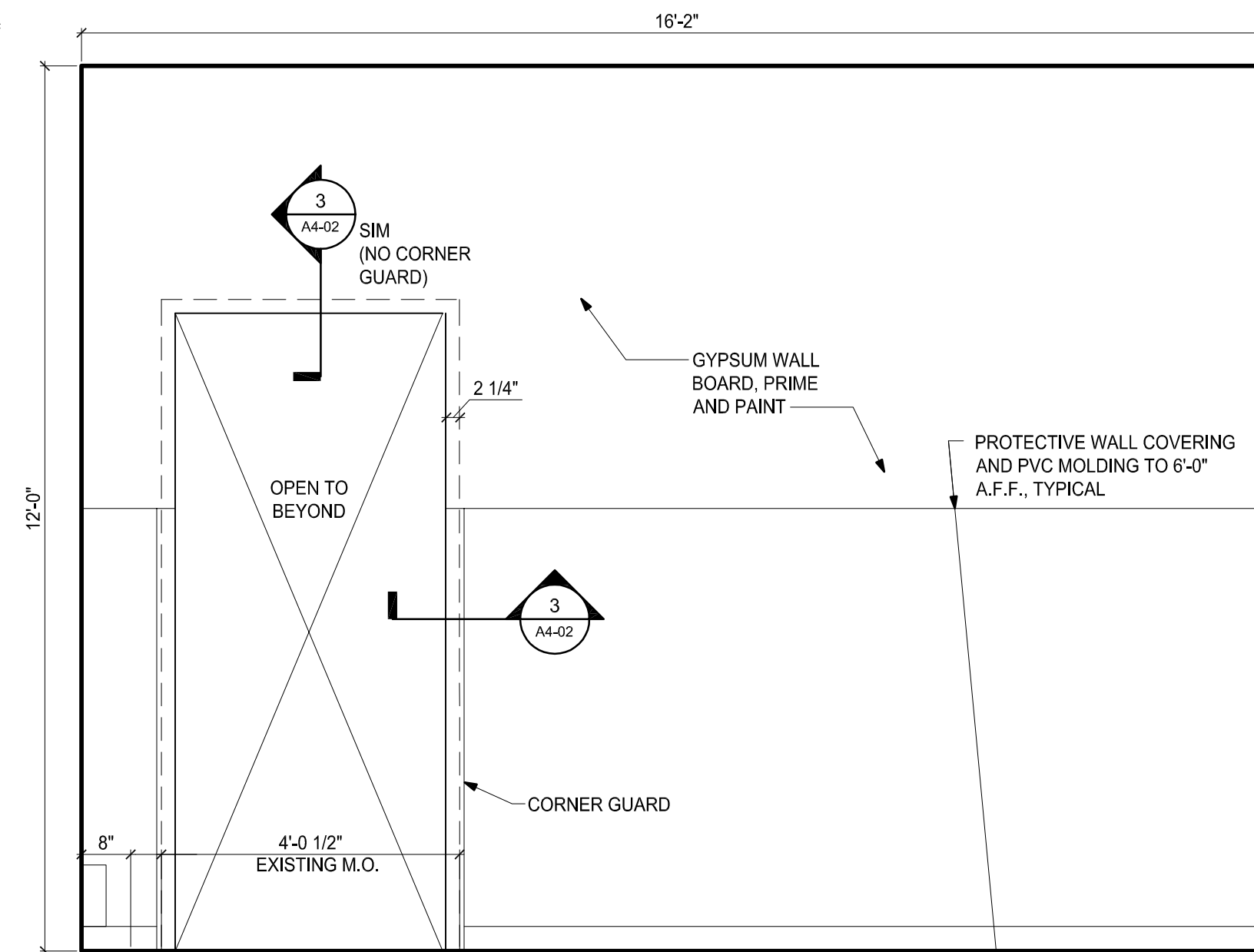
AI-02



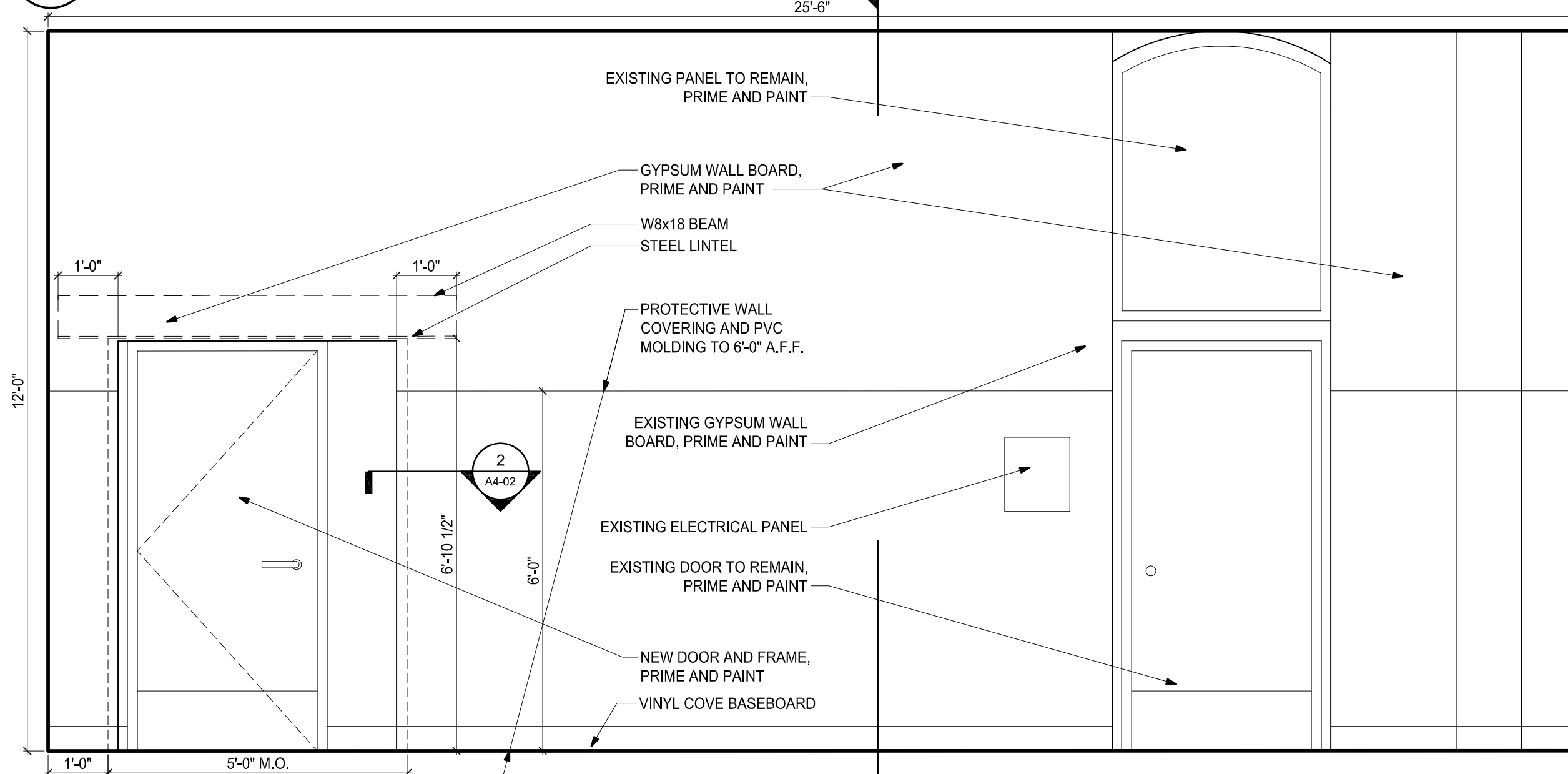
P:\2015\15036-C\AutoCAD\Sheets\15036-C-A4-01.dwg, Jul 28, 2016 - 4:53 pm, AVILLET



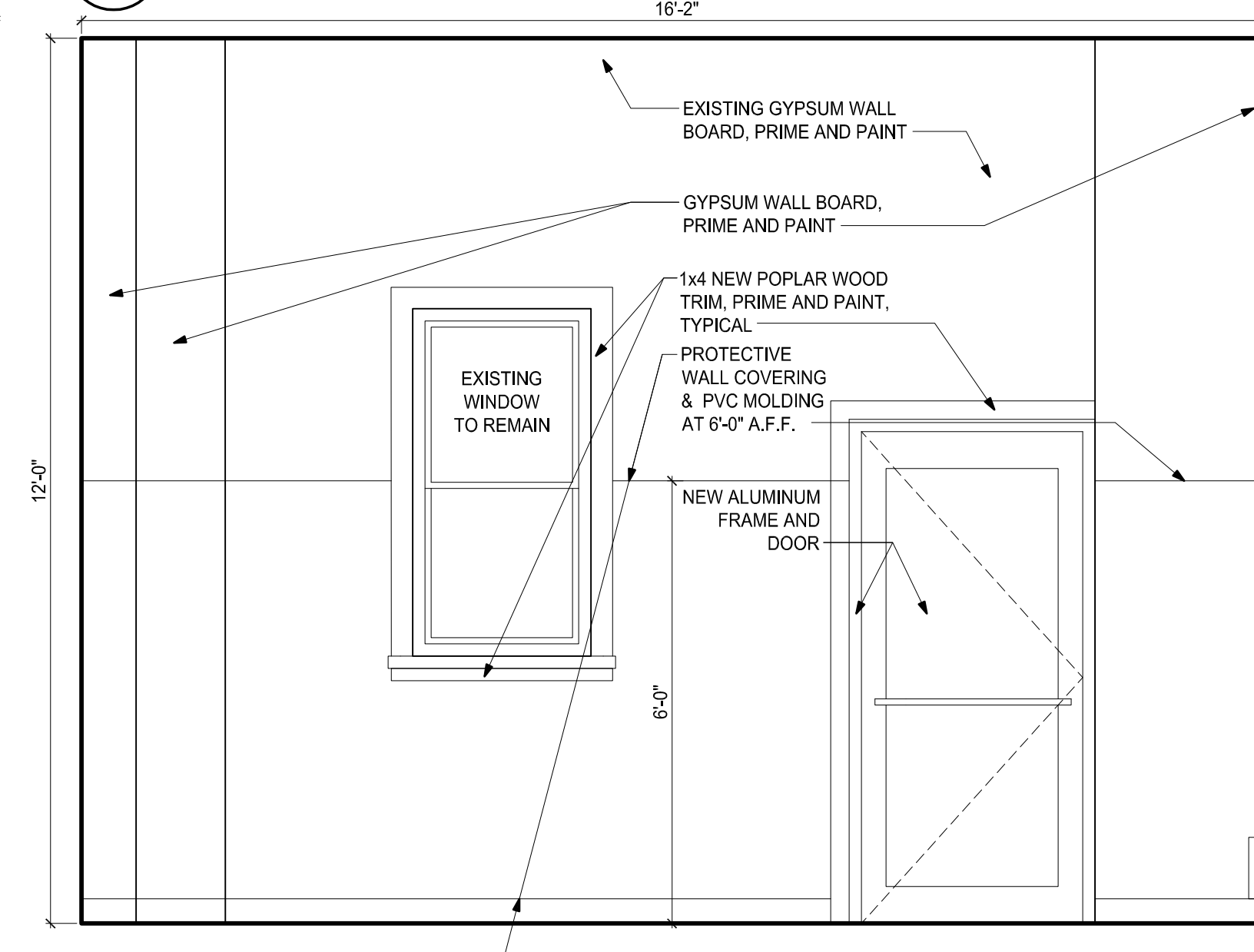
1 INTERIOR ELEVATION - FOOD PANTRY
SCALE: 1/2" = 1'-0"



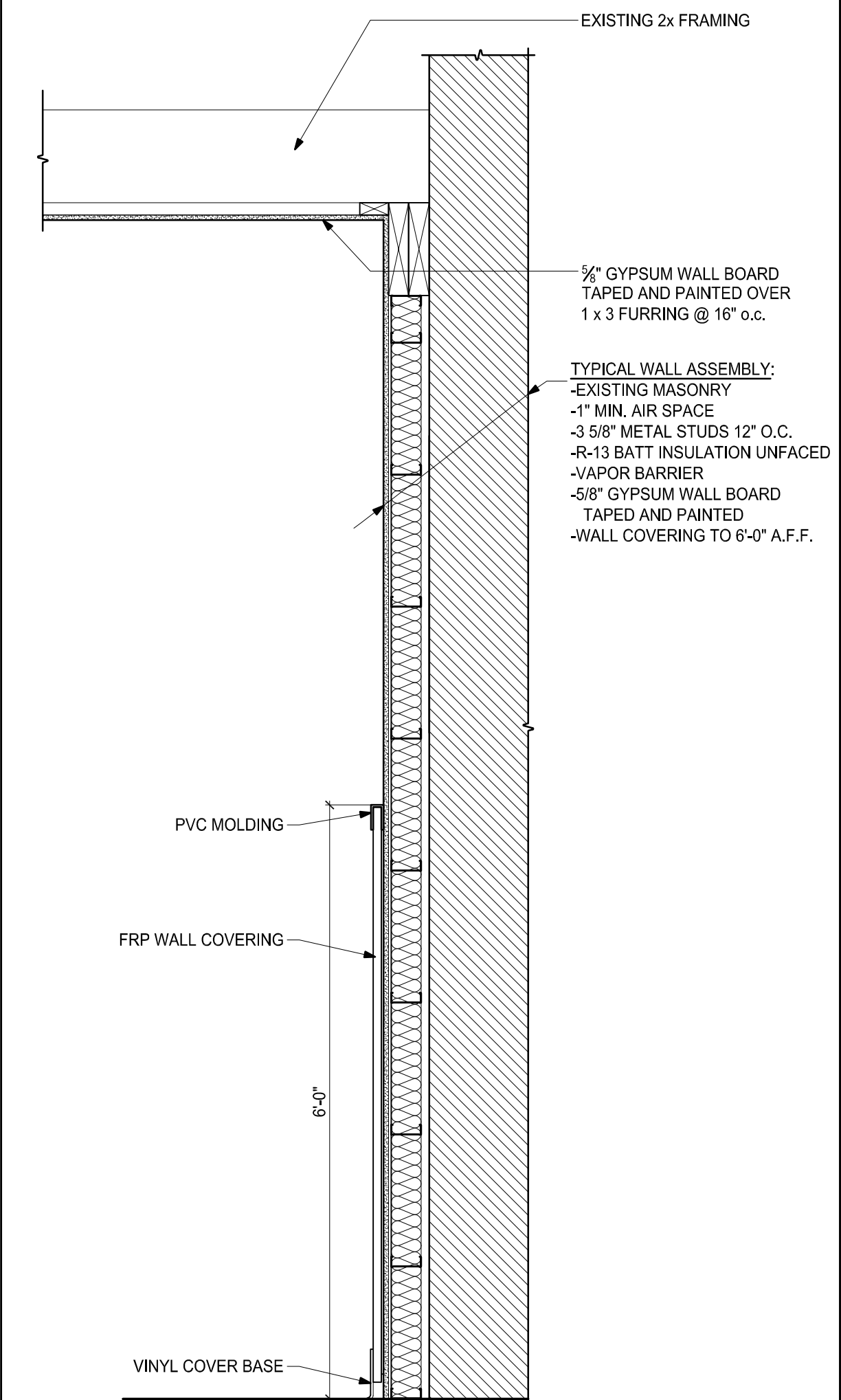
2 INTERIOR ELEVATION - FOOD PANTRY
SCALE: 1/2" = 1'-0"



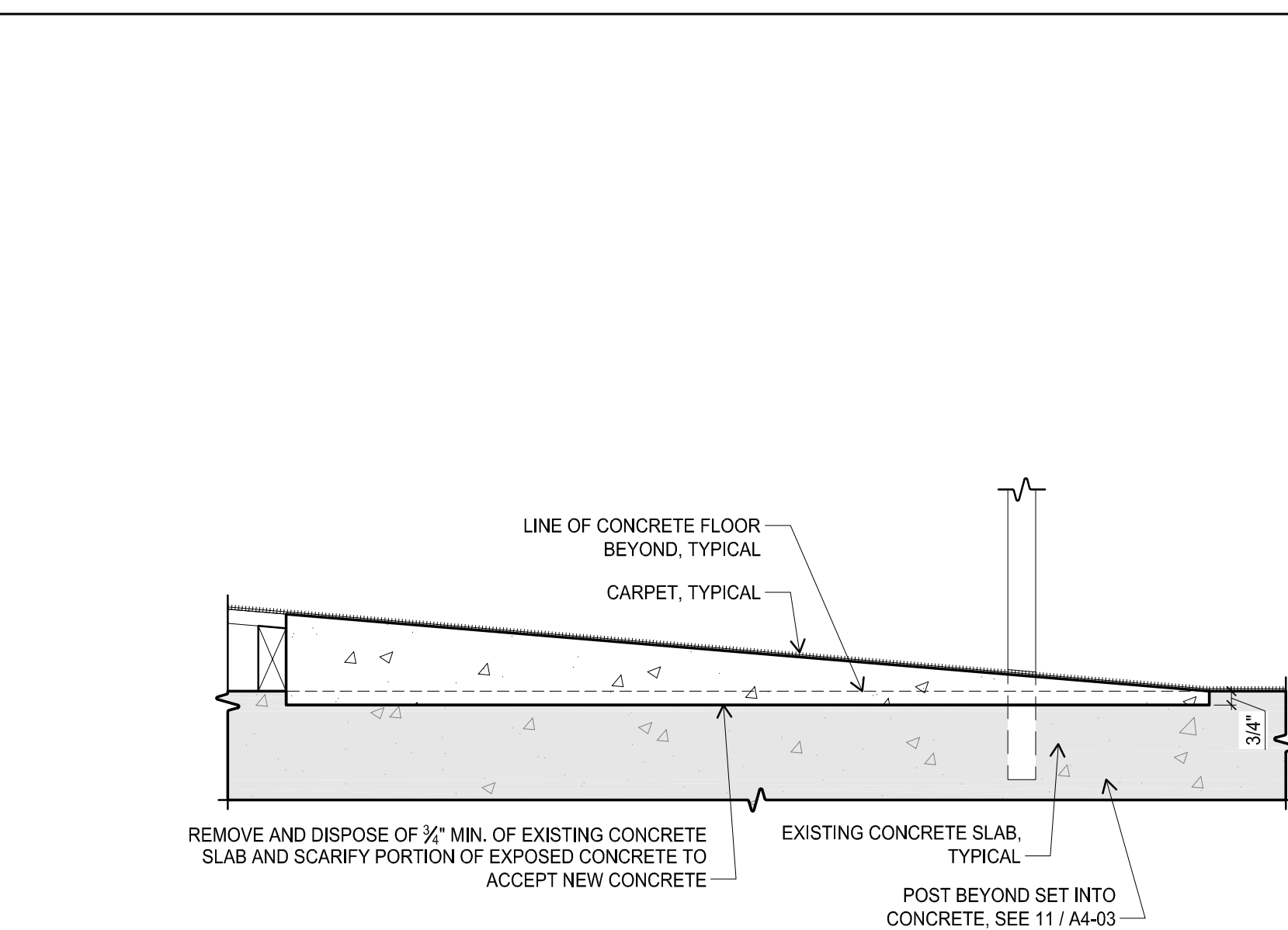
3 INTERIOR ELEVATION - FOOD PANTRY 101
SCALE: 1/2" = 1'-0"



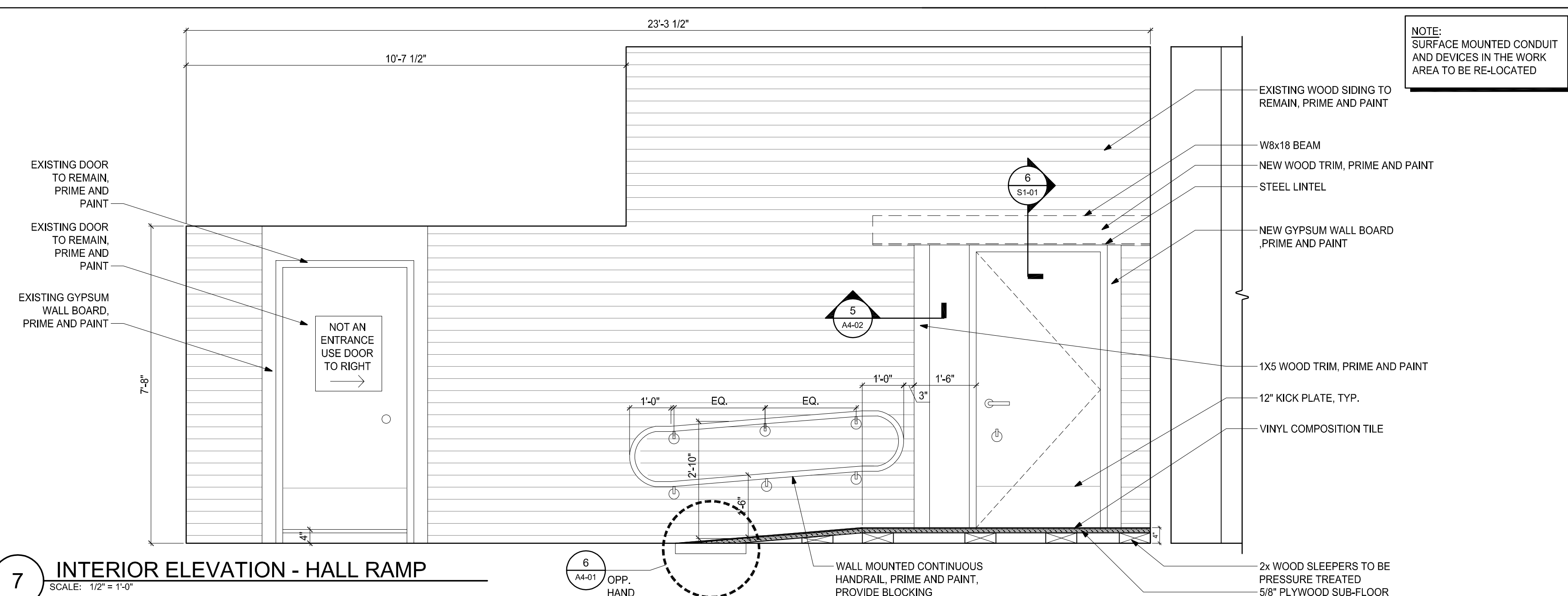
4 INTERIOR ELEVATION - FOOD PANTRY
SCALE: 1/2" = 1'-0"



5 WALL SECTION
SCALE: 3/4" = 1'-0"



6 CONCRETE OVERLAY DETAIL AT RAMP
SCALE: 1-1/2" = 1'-0"



7 INTERIOR ELEVATION - HALL RAMP
SCALE: 1/2" = 1'-0"

NOTE: SURFACE MOUNTED CONDUIT AND DEVICES IN THE WORK AREA TO BE RE-LOCATED



250 DORCHESTER AVENUE
BOSTON, MA 02127
P: (617) 268-8977
F: (617) 464-2971
cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF
SOMERVILLE
CROSS STREET
SENIOR CENTER
RENOVATIONS



CAPITAL PROJECTS AND
PLANNING DEPARTMENT
ONE FRANNEY ROAD
SOMERVILLE, MA 02145

Drawing Title:
**FOOD PANTRY
INTERIOR
ELEVATIONS**

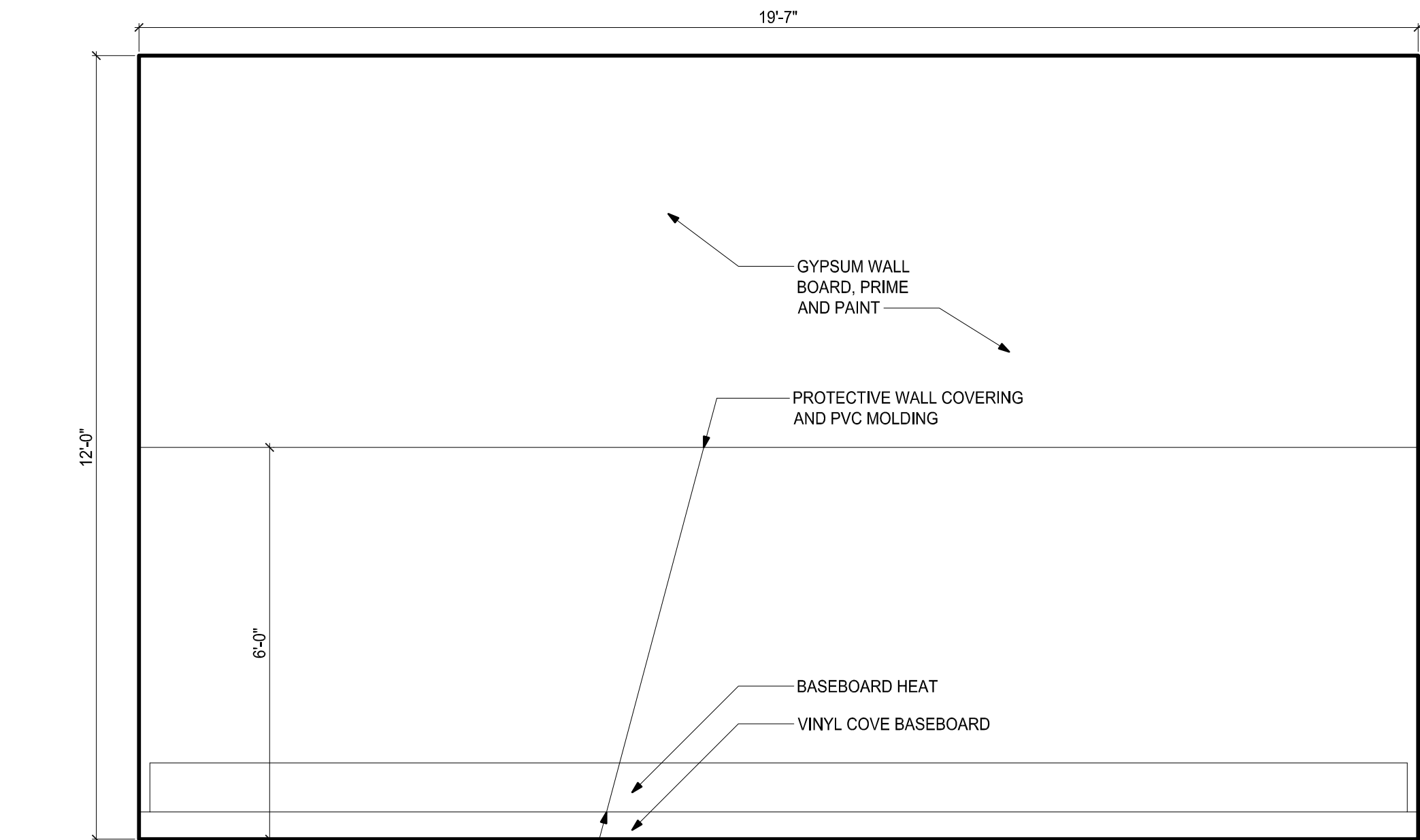
Revisions:

Submission:
**BIDDING
DOCUMENTS**

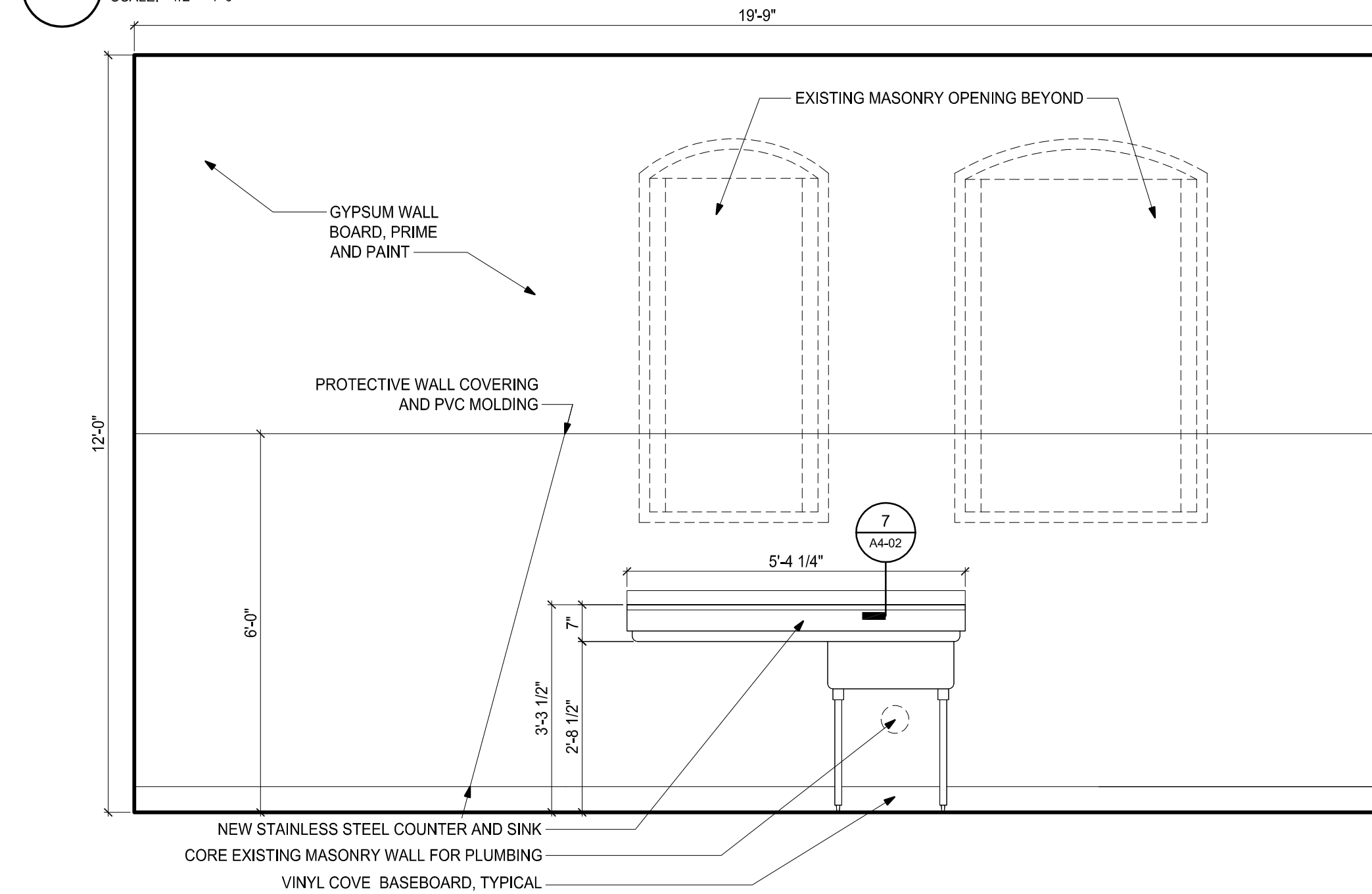
Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: MF
Scale: 1/2" = 1'-0"

A4-01

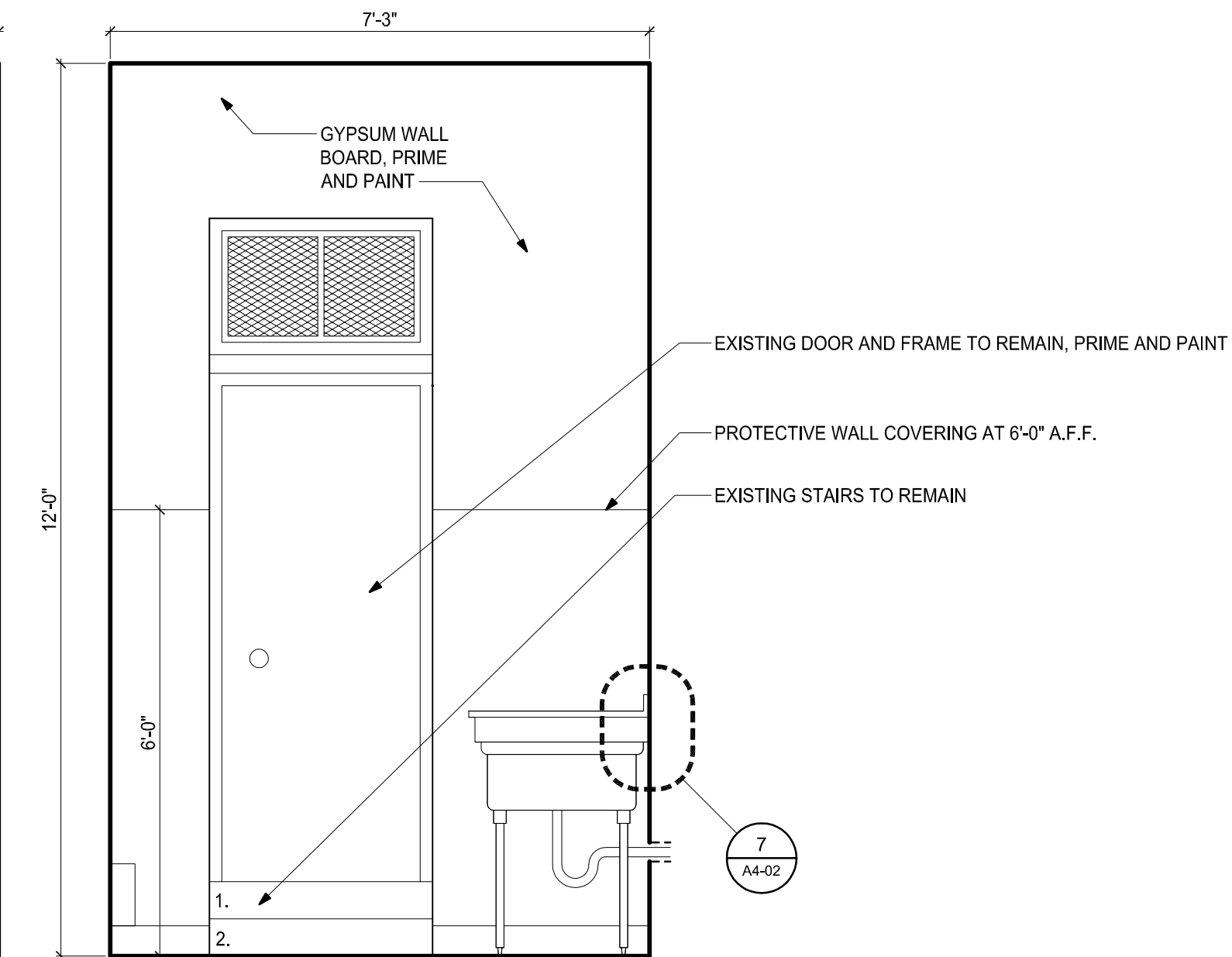
P:\2015\15036-C AutoCAD\Sheets\15036-C A4-02.dwg, Jul 28, 2016 - 6:54 pm, AVILLET



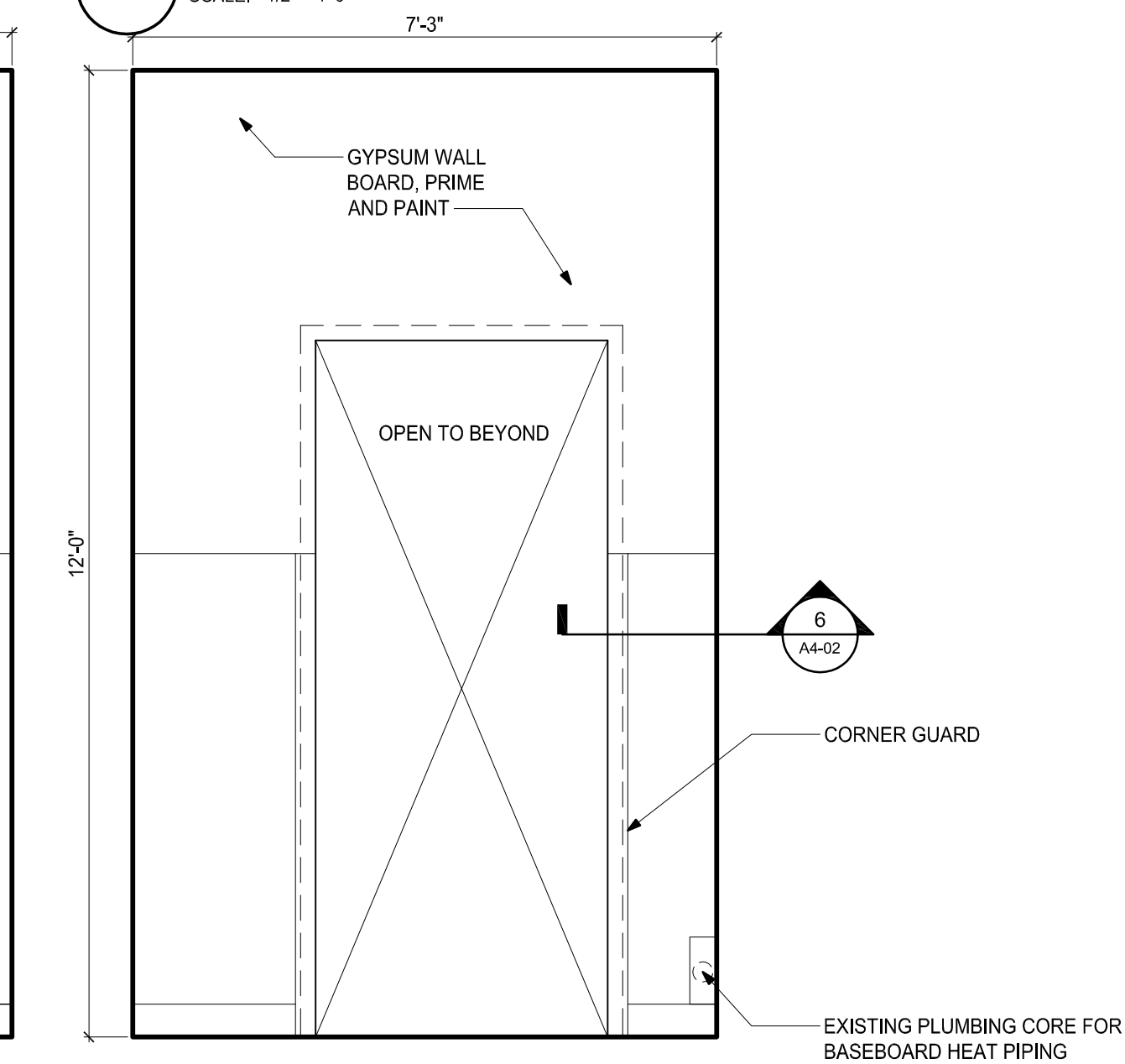
1 INTERIOR ELEVATION - FOOD PANTRY
SCALE: 1/2" = 1'-0"



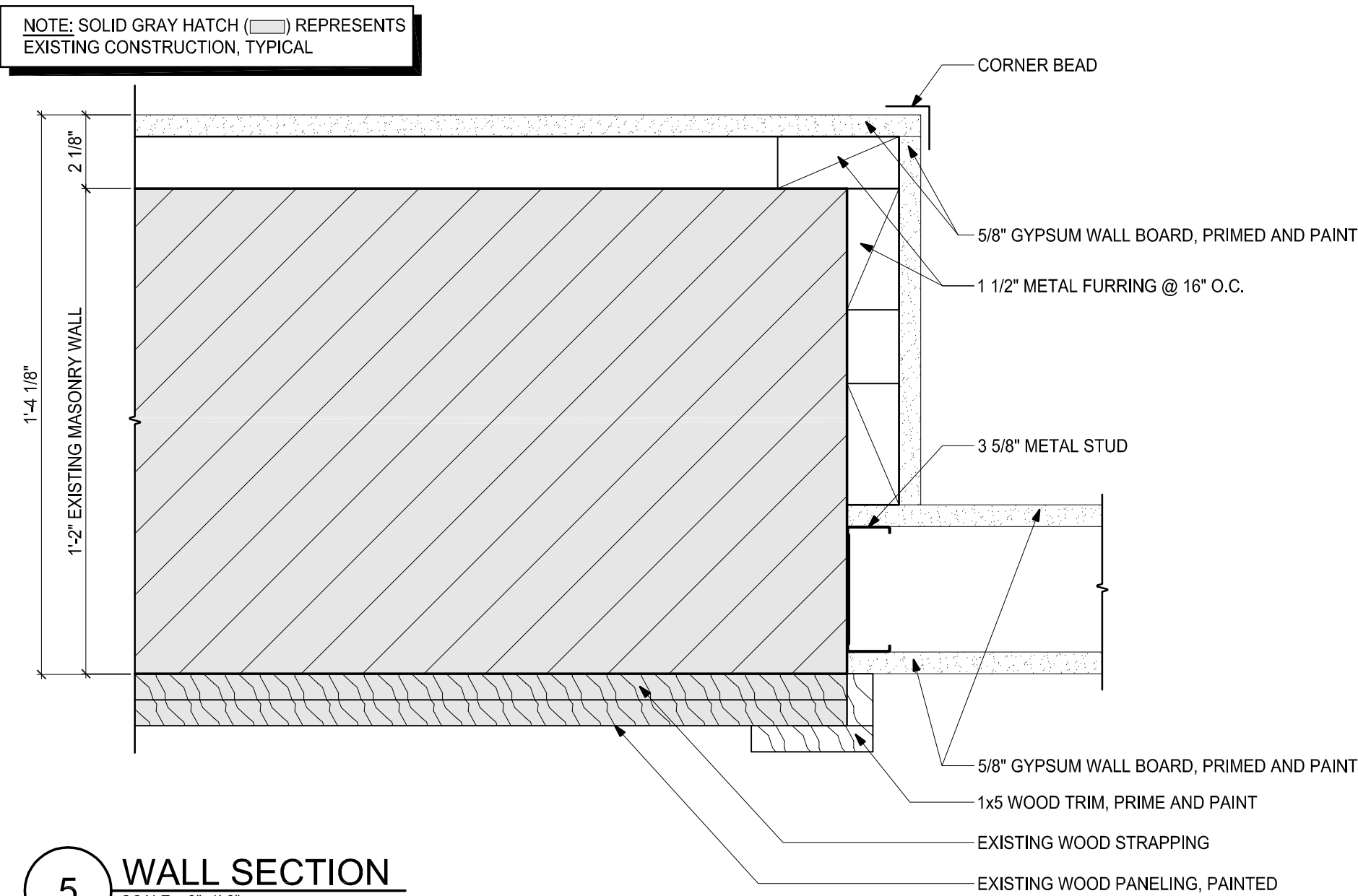
3 INTERIOR ELEVATION - FOOD PANTRY 102
SCALE: 1/2" = 1'-0"



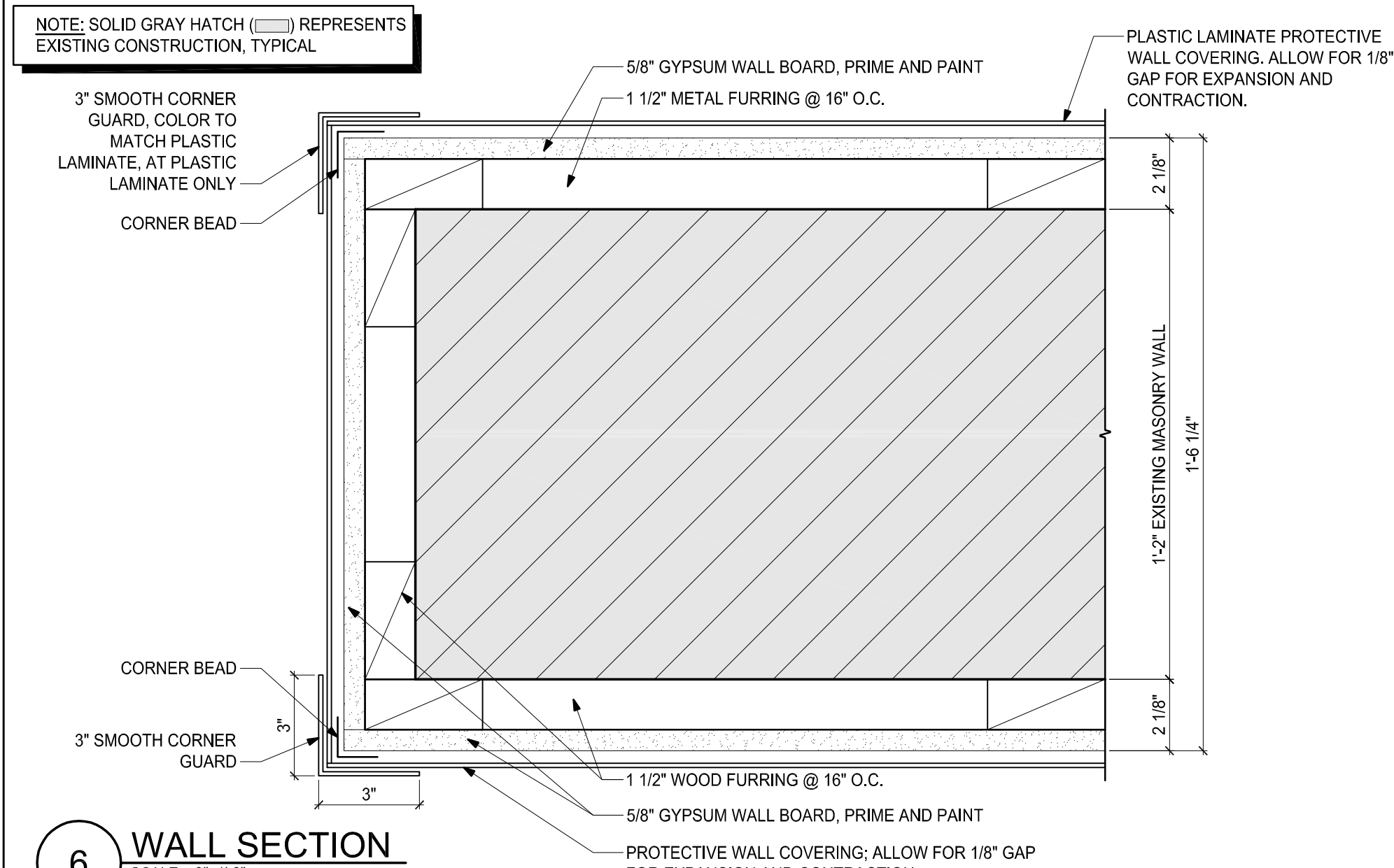
2 INTERIOR ELEVATION - FOOD PANTRY
SCALE: 1/2" = 1'-0"



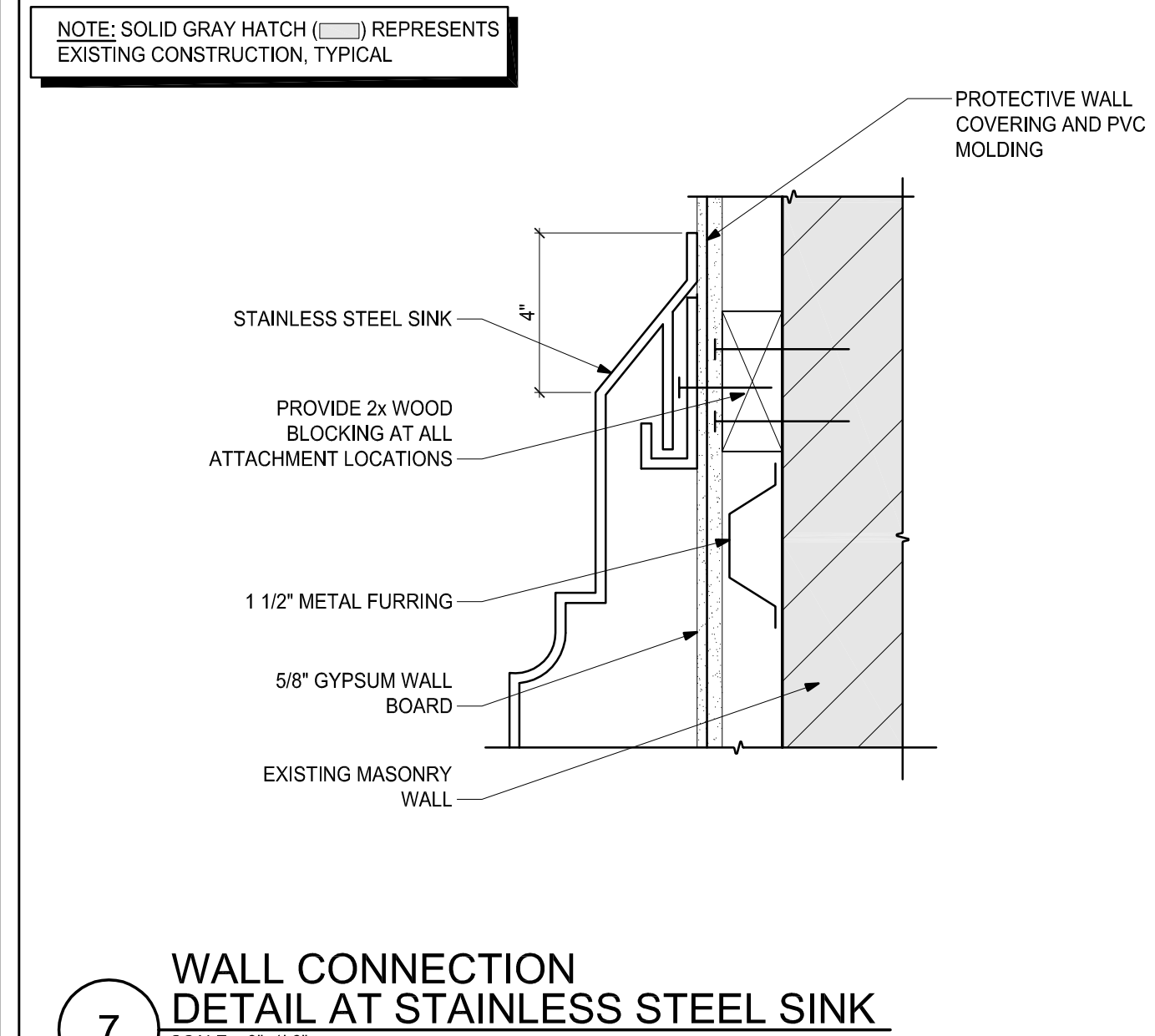
4 INTERIOR ELEVATION - FOOD PANTRY
SCALE: 1/2" = 1'-0"



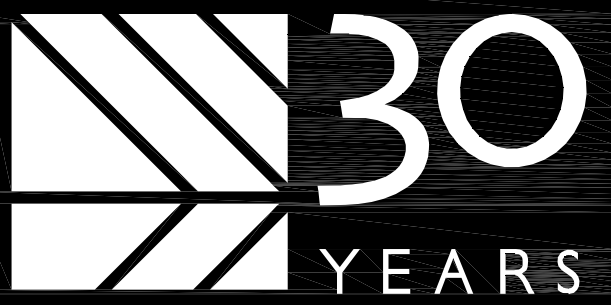
5 WALL SECTION
SCALE: 3/4" = 1'-0"



6 WALL SECTION
SCALE: 3/4" = 1'-0"



7 WALL CONNECTION
DETAIL AT STAINLESS STEEL SINK
SCALE: 3/4" = 1'-0"



250 DORCHESTER AVENUE
BOSTON, MA 02127
P: (617) 268-8977
F: (617) 464-2971
cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF
SOMERVILLE
CROSS STREET
SENIOR CENTER
RENOVATIONS



CAPITAL PROJECTS AND
PLANNING DEPARTMENT
ONE FRANNEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

FOOD PANTRY
INTERIOR
ELEVATIONS
AND DETAILS

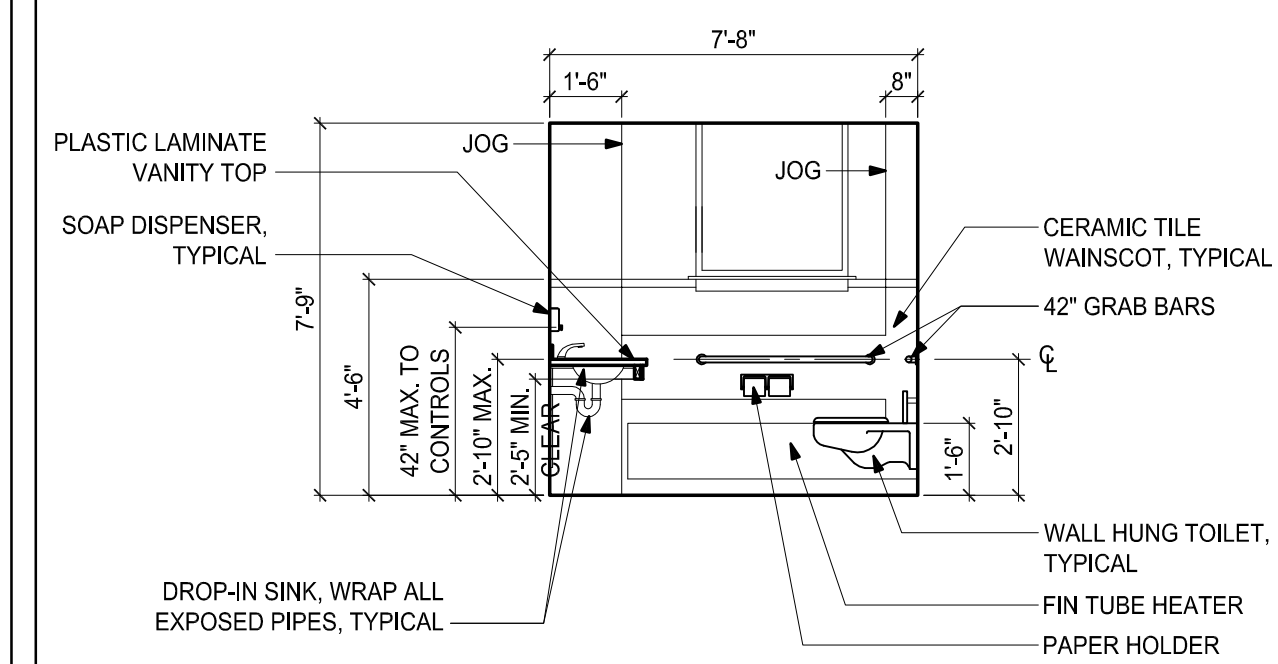
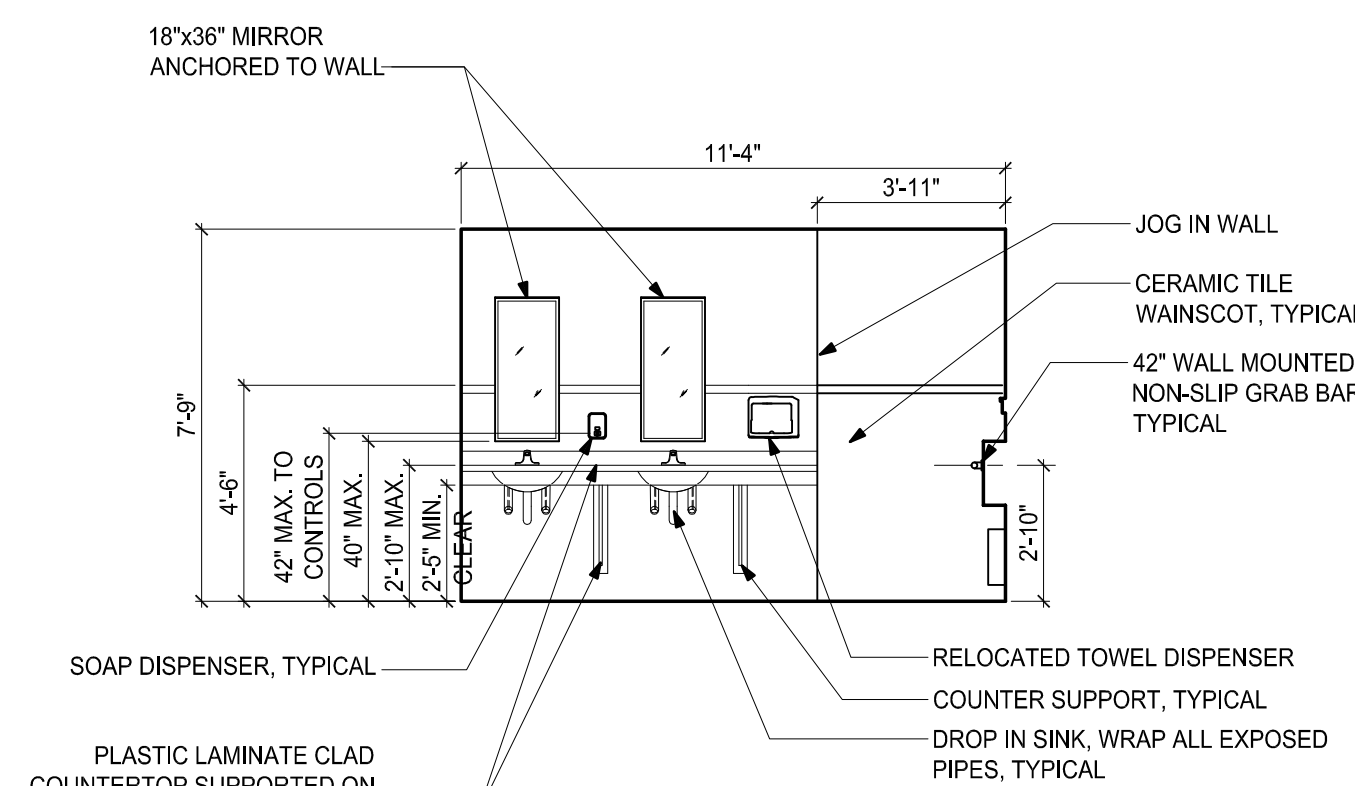
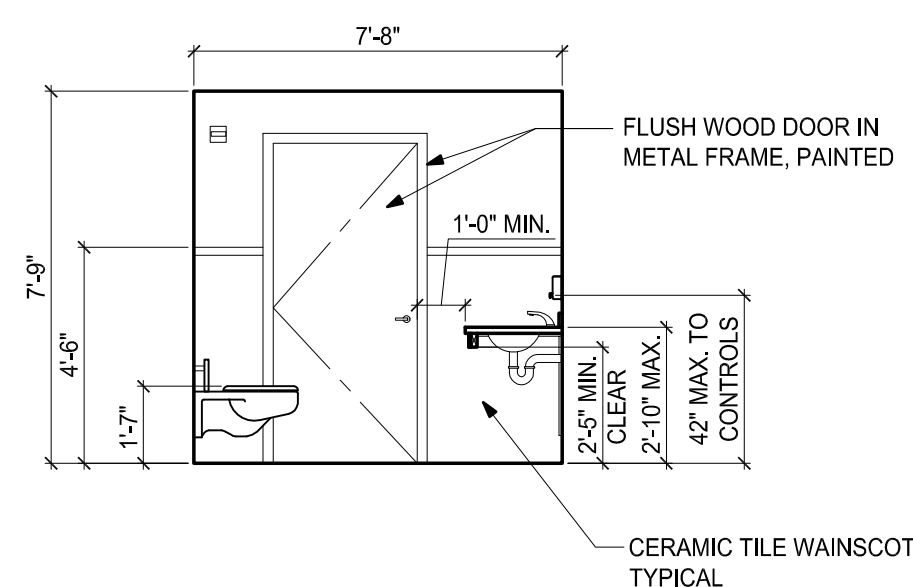
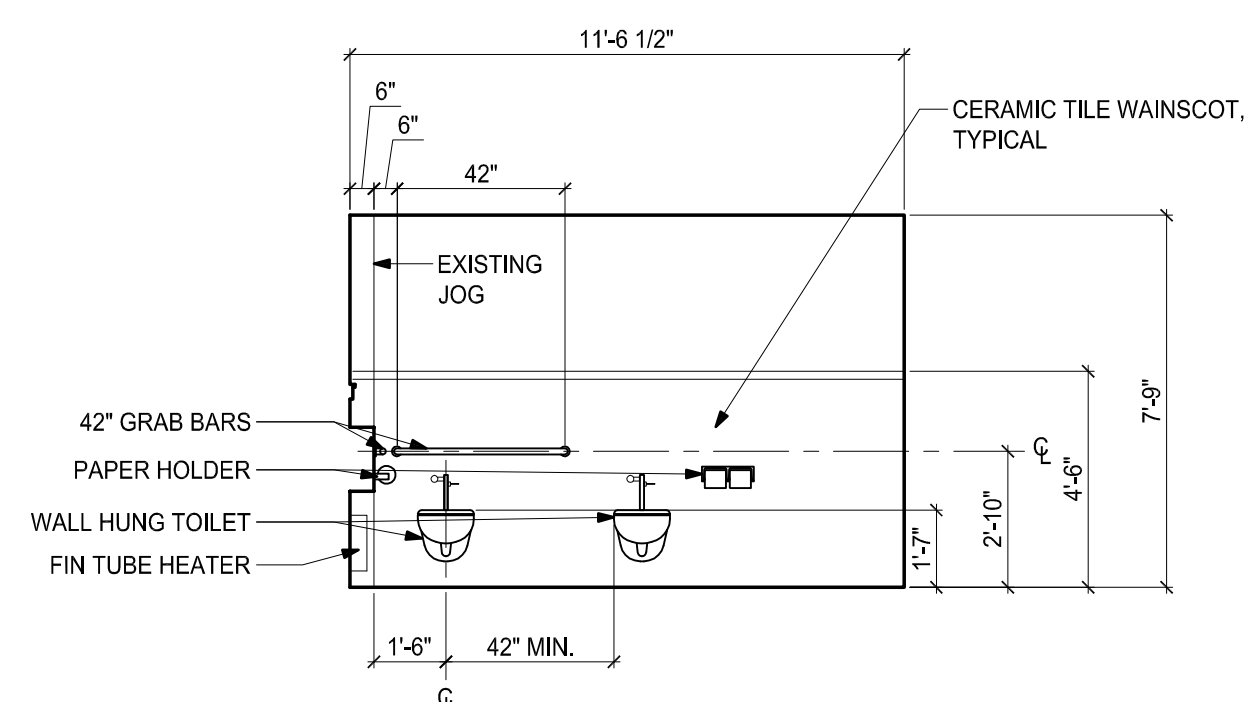
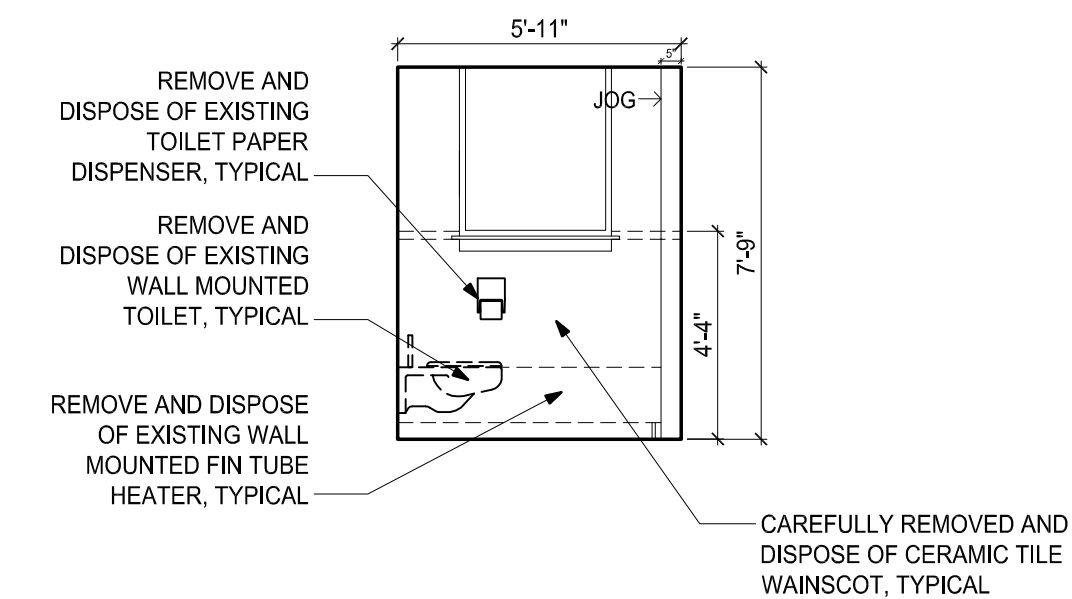
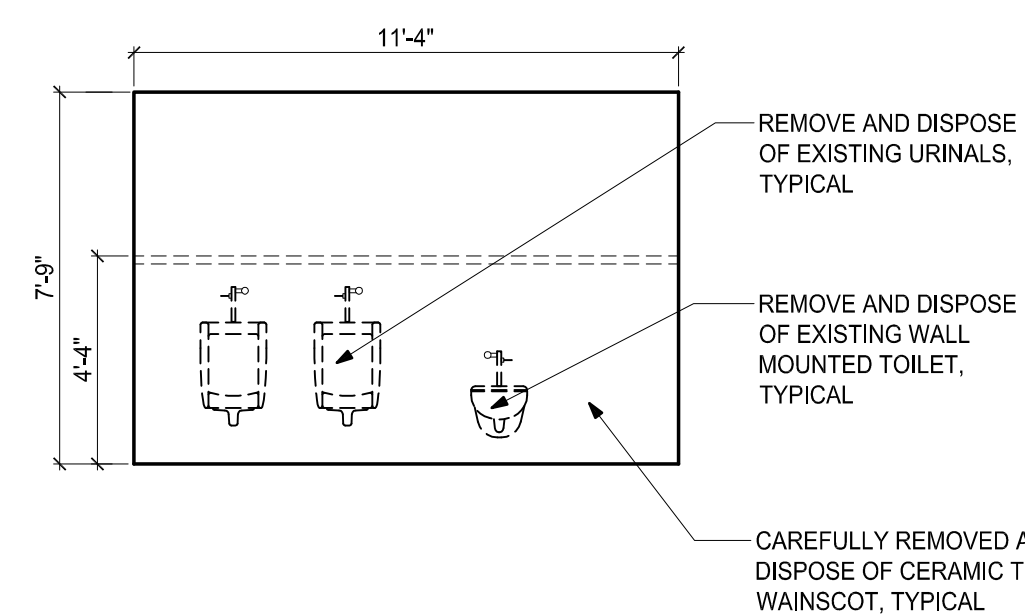
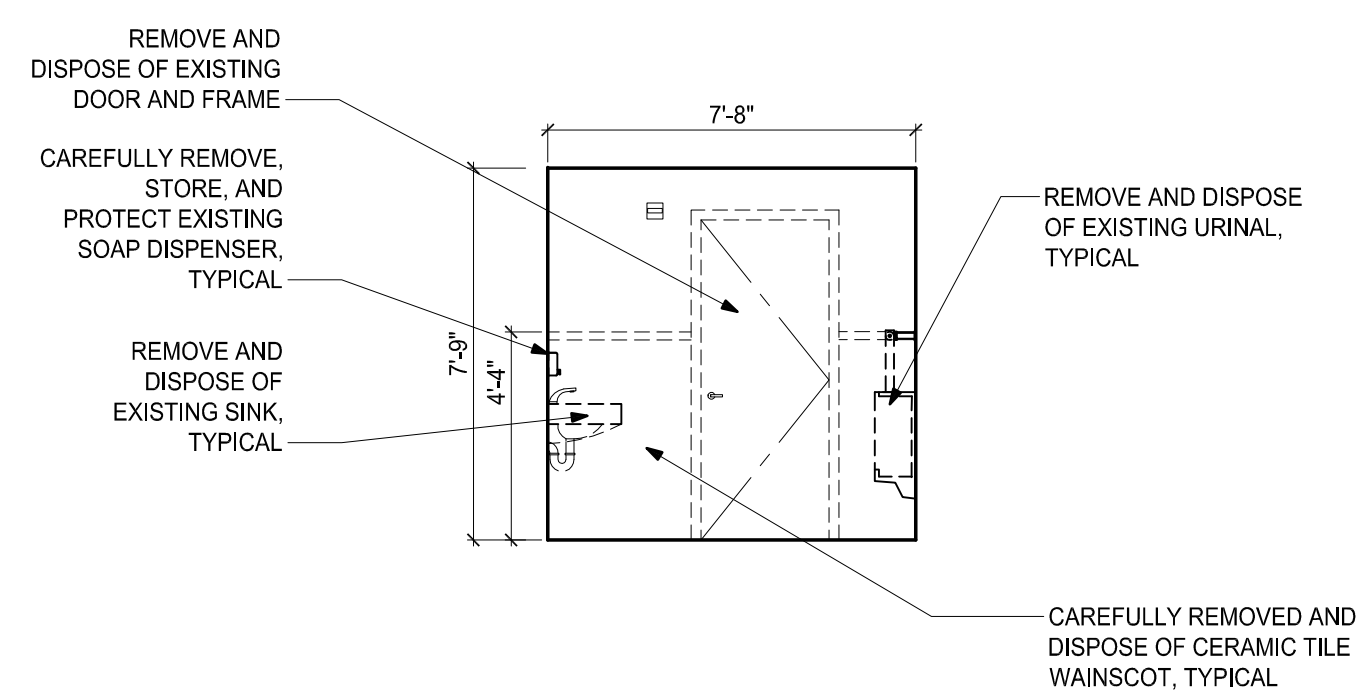
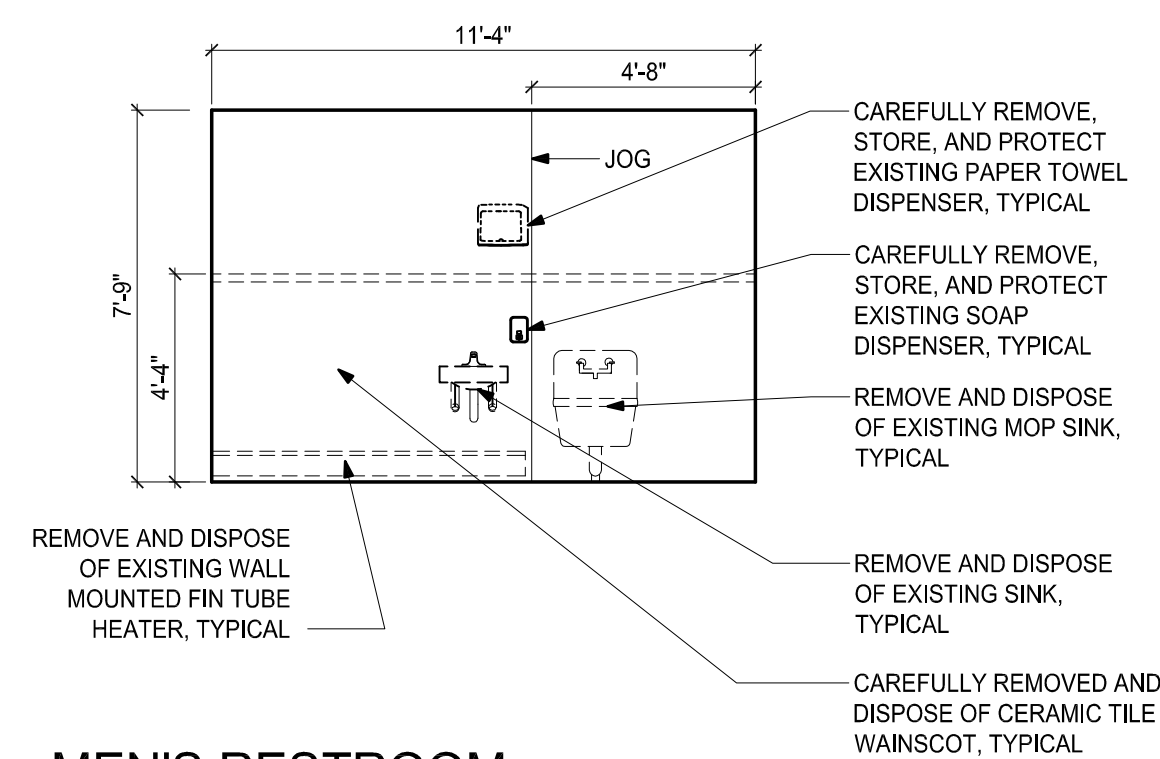
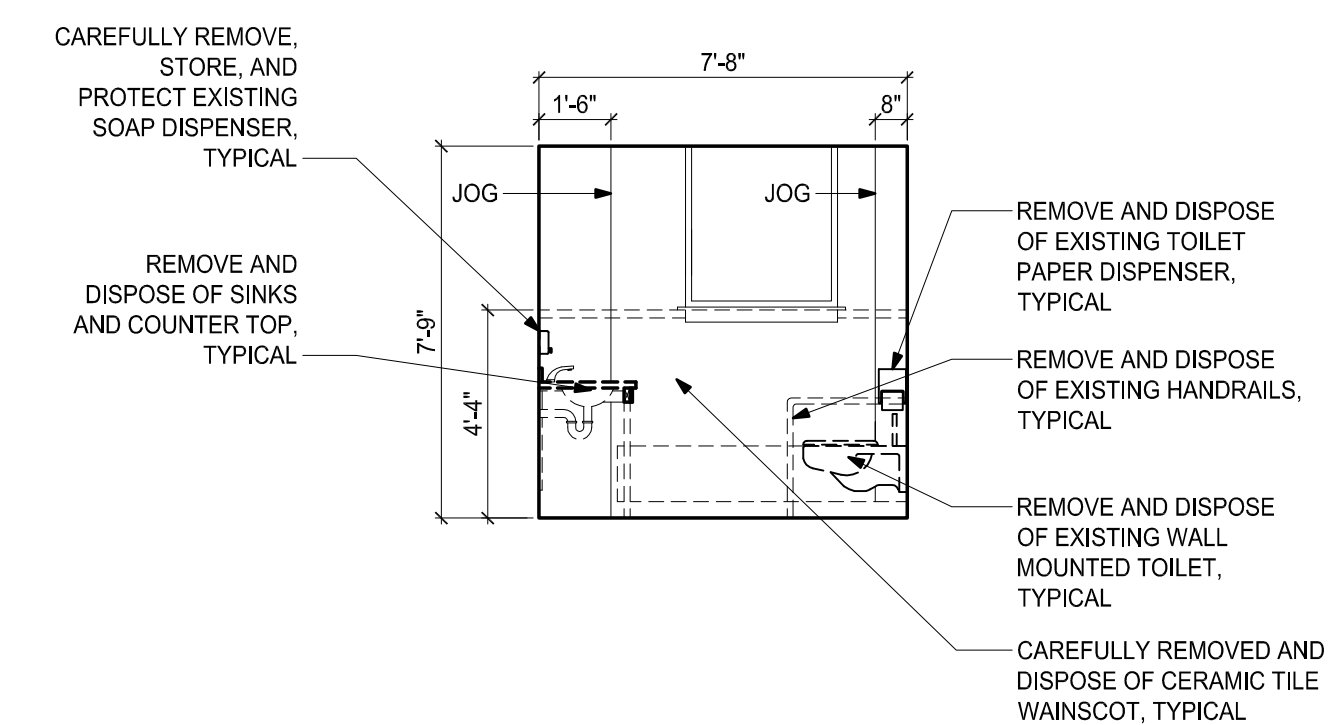
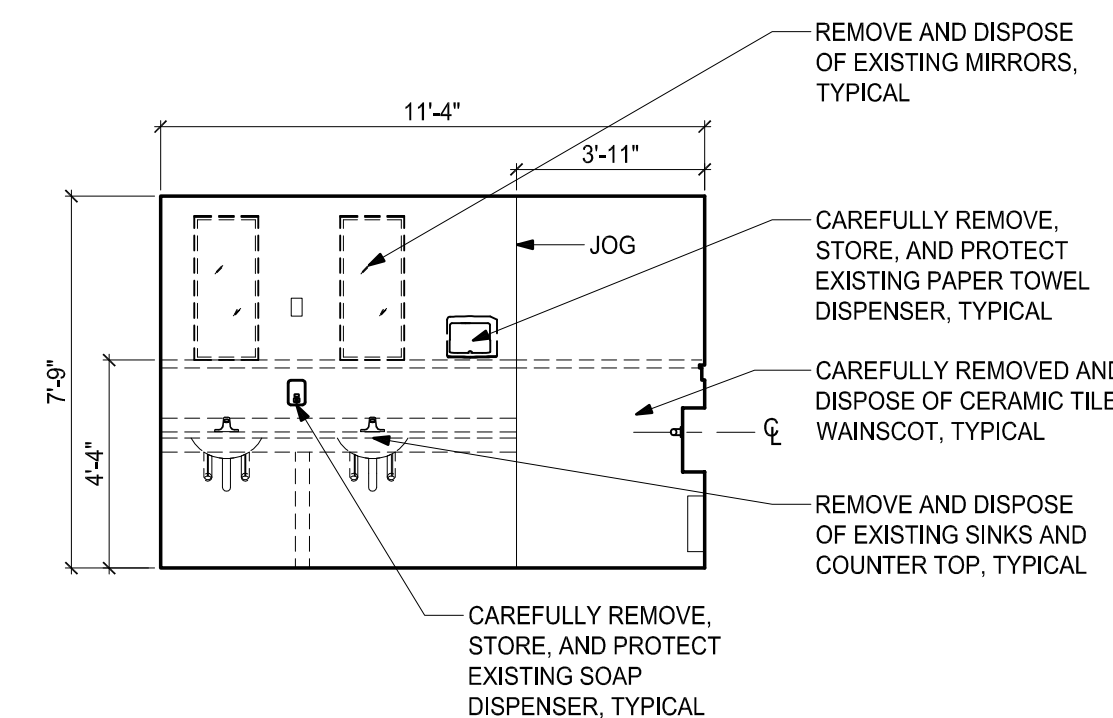
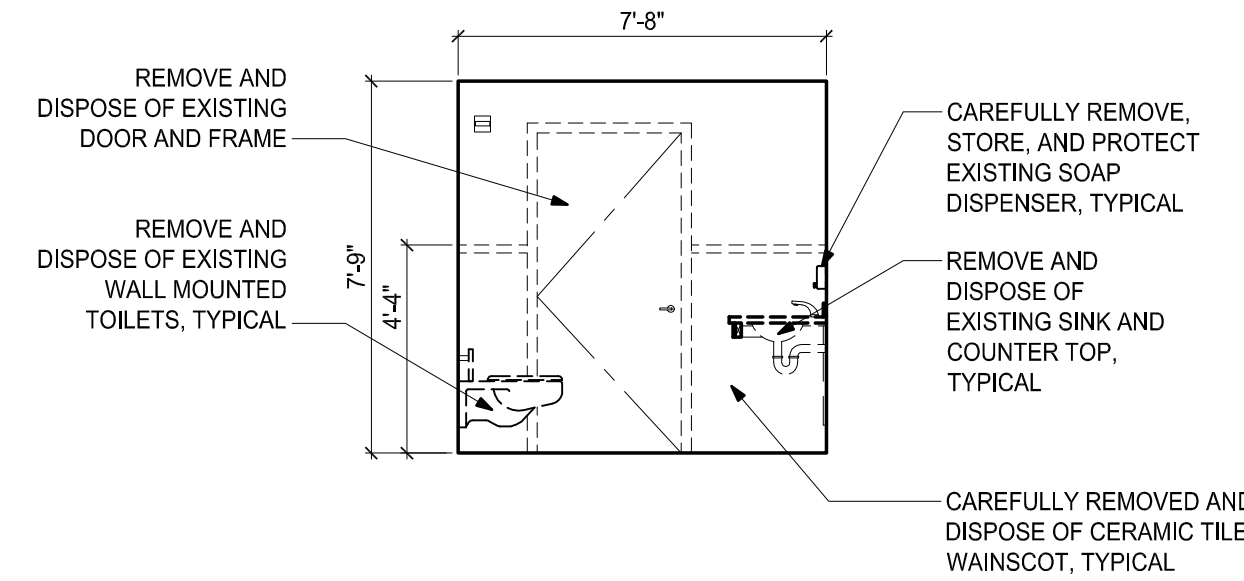
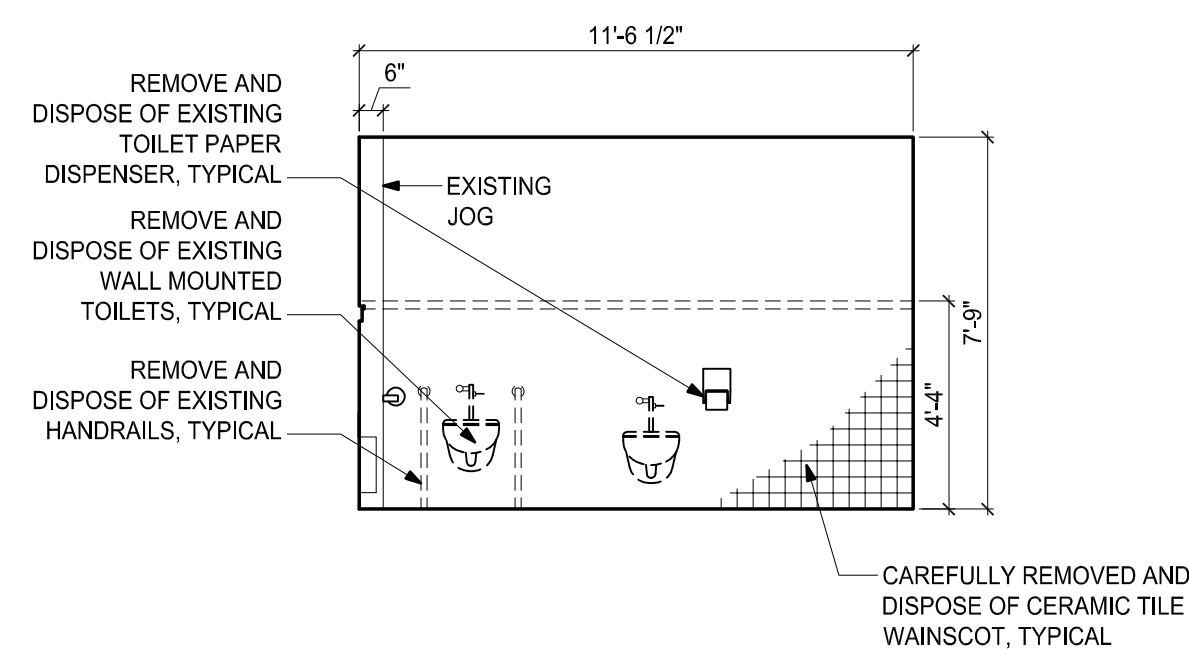
Revisions:

Submission:

BIDDING
DOCUMENTS

Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: MF
Scale: 1/2" = 1'-0"

A4-02



250 DORCHESTER AVENUE
BOSTON, MA 02127

P: (617) 268-8977
F: (617) 464-2971

cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF SOMERVILLE CROSS STREET SENIOR CENTER RENOVATIONS



**CAPITAL PROJECTS AND
PLANNING DEPARTMENT**
ONE FRANEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

RESTROOM ELEVATIONS

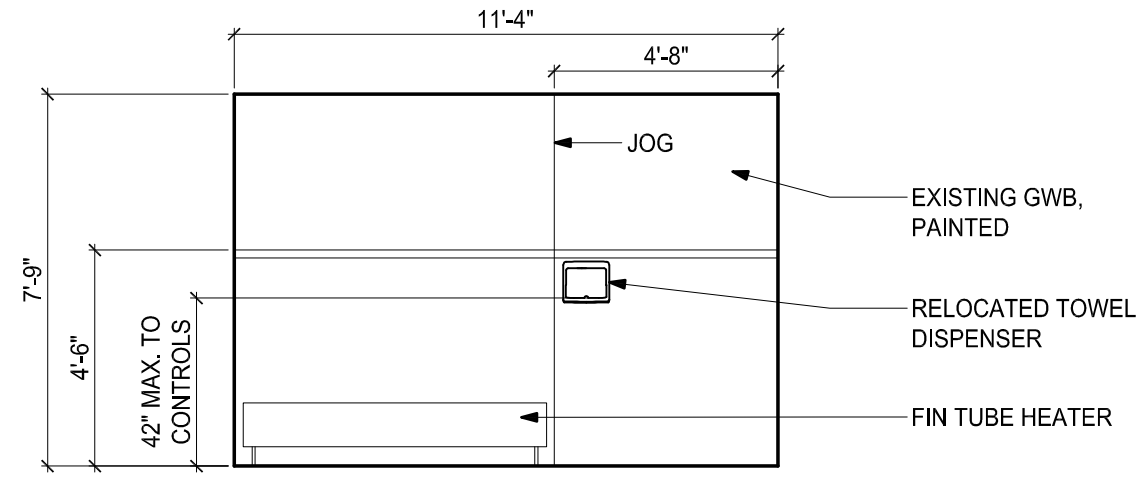
Revisions:

Submission:

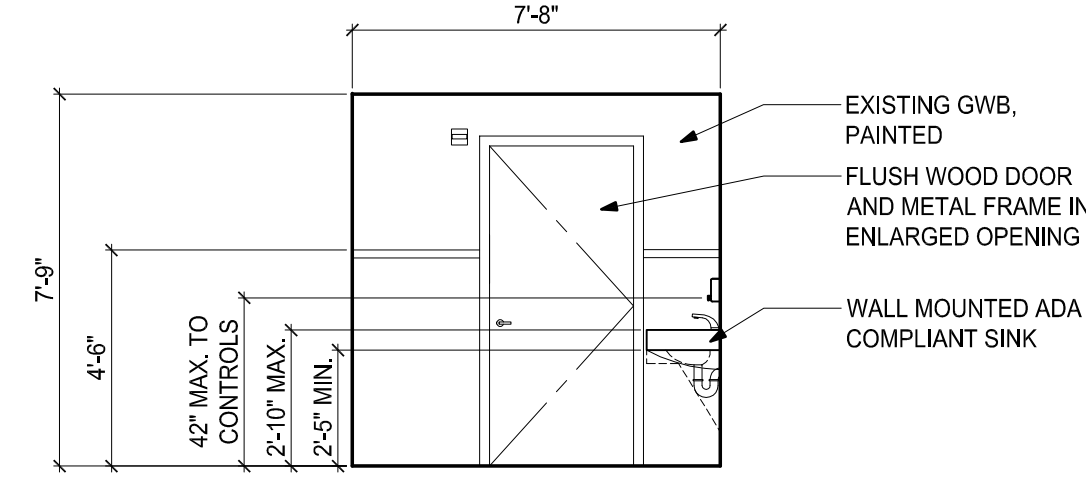
BIDDING DOCUMENTS

Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: JDR/MPS
Scale: 1/4" = 1'-0"

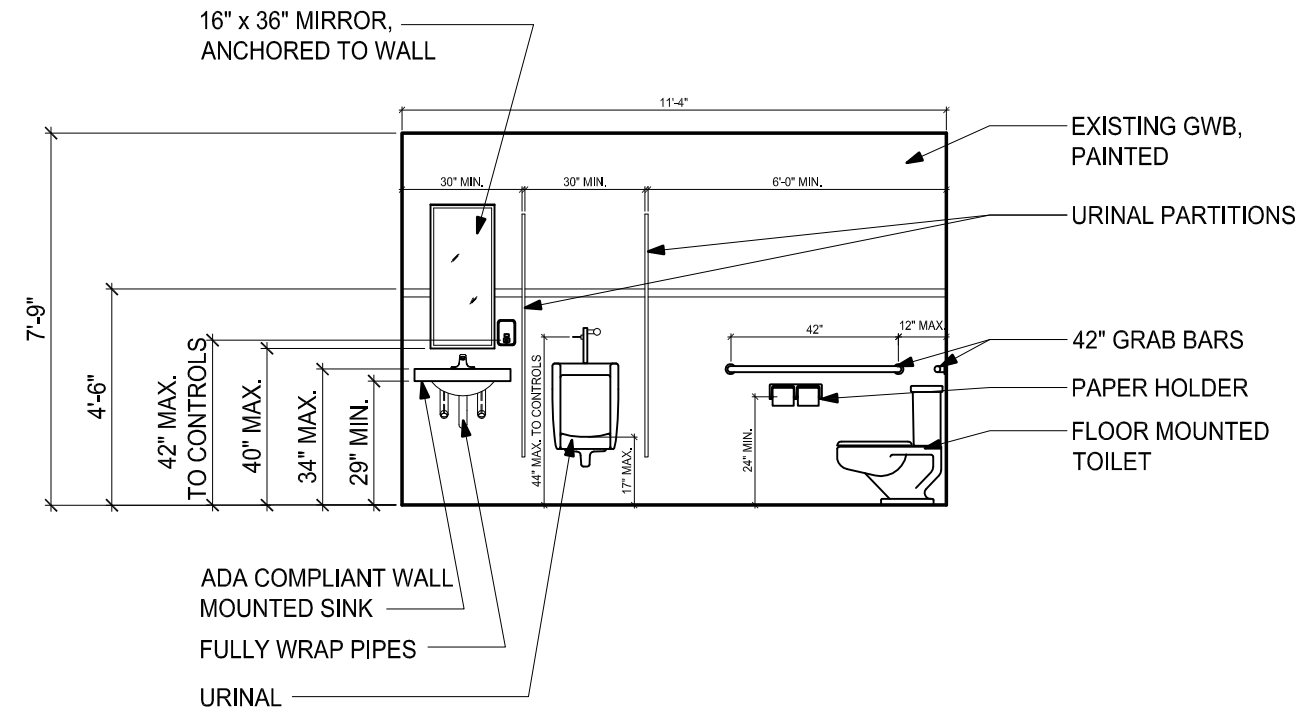
A4-03



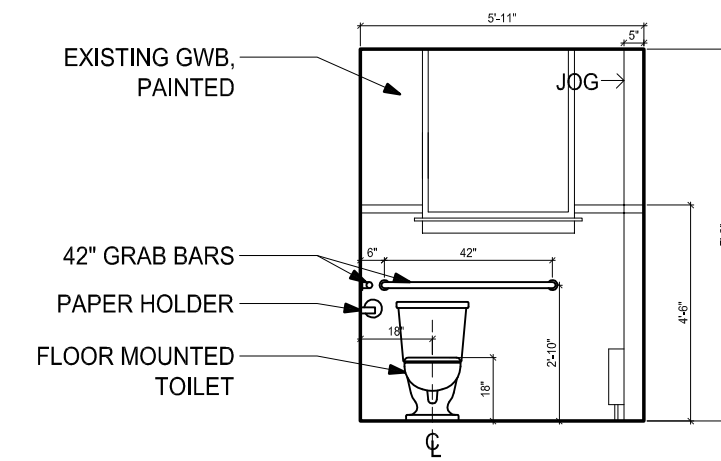
13 MEN'S RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"
ADD ALTERNATE #001



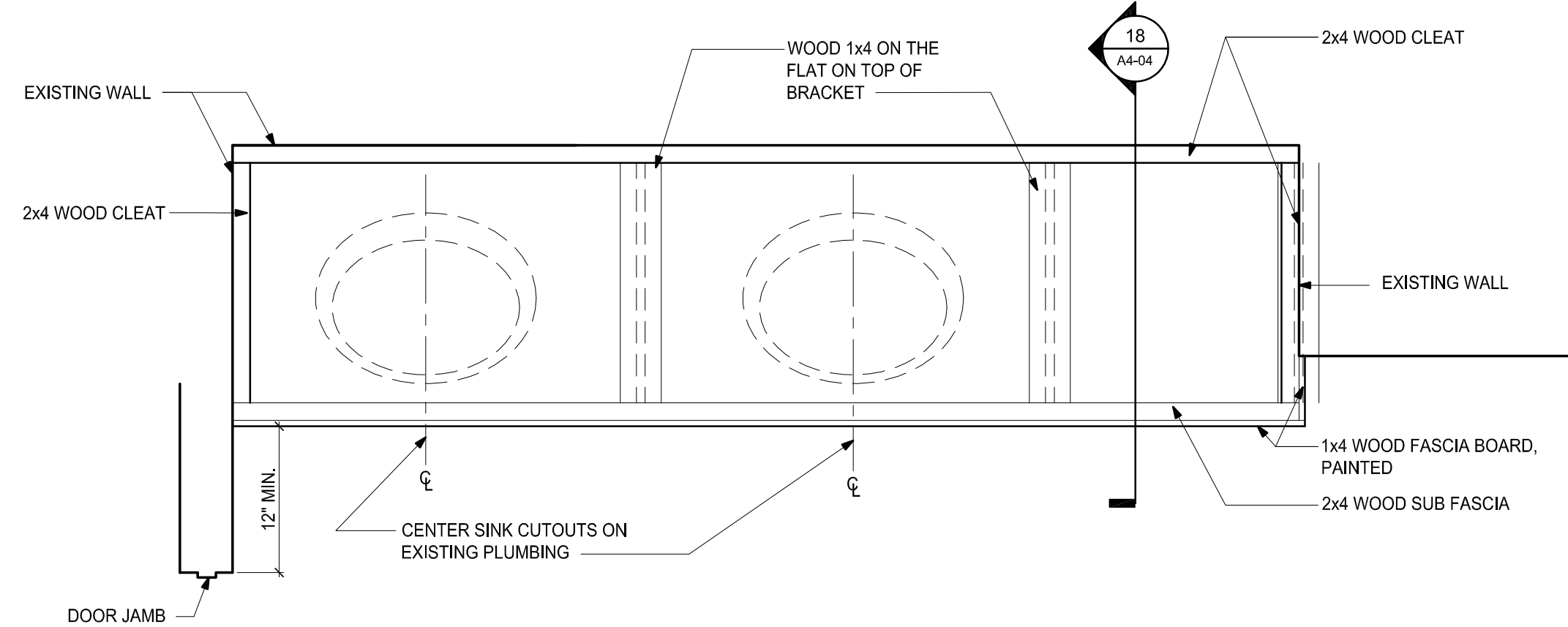
14 MEN'S RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"
ADD ALTERNATE #001



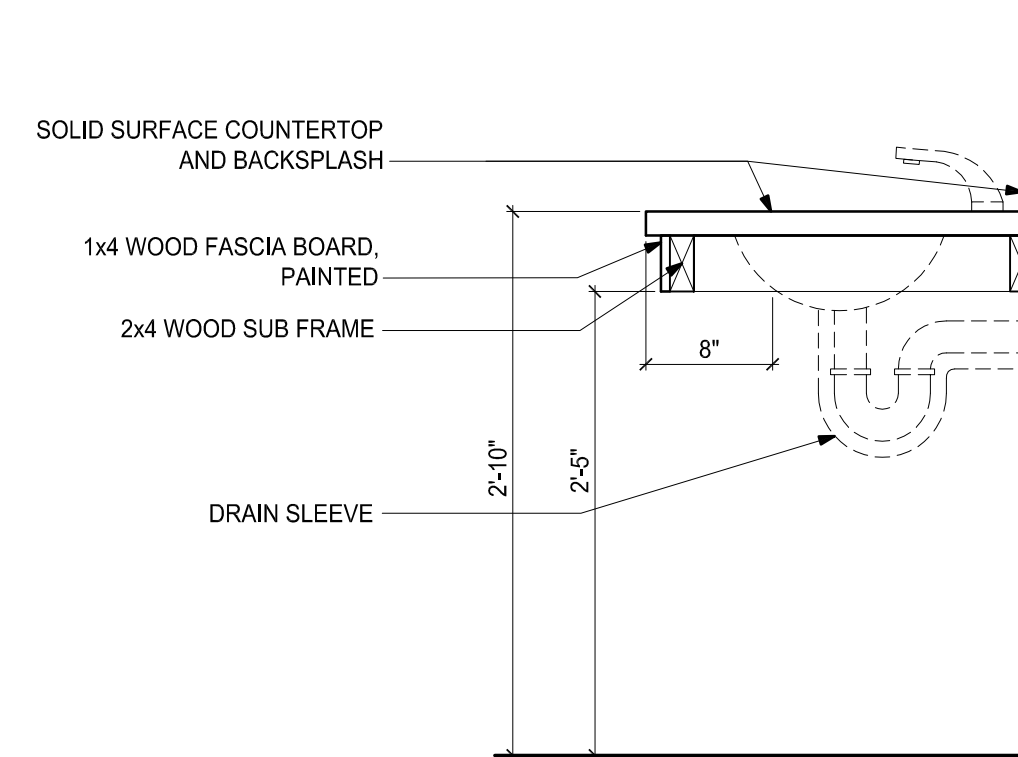
15 MEN'S RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"
ADD ALTERNATE #001



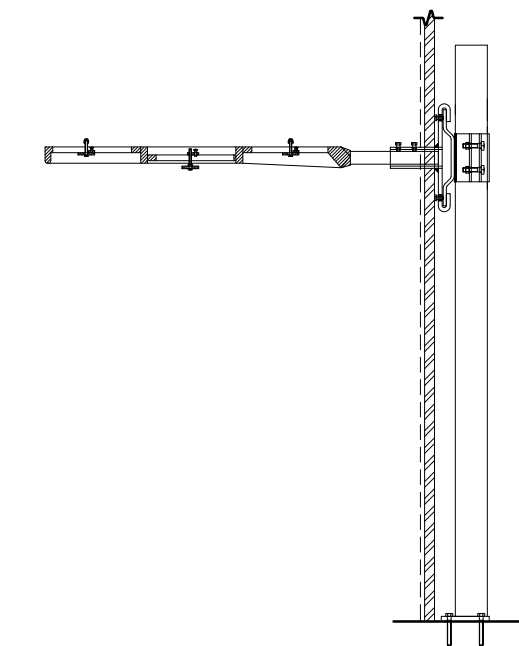
16 MEN'S RESTROOM ELEVATION
SCALE: 1/4" = 1'-0"
ADD ALTERNATE #001



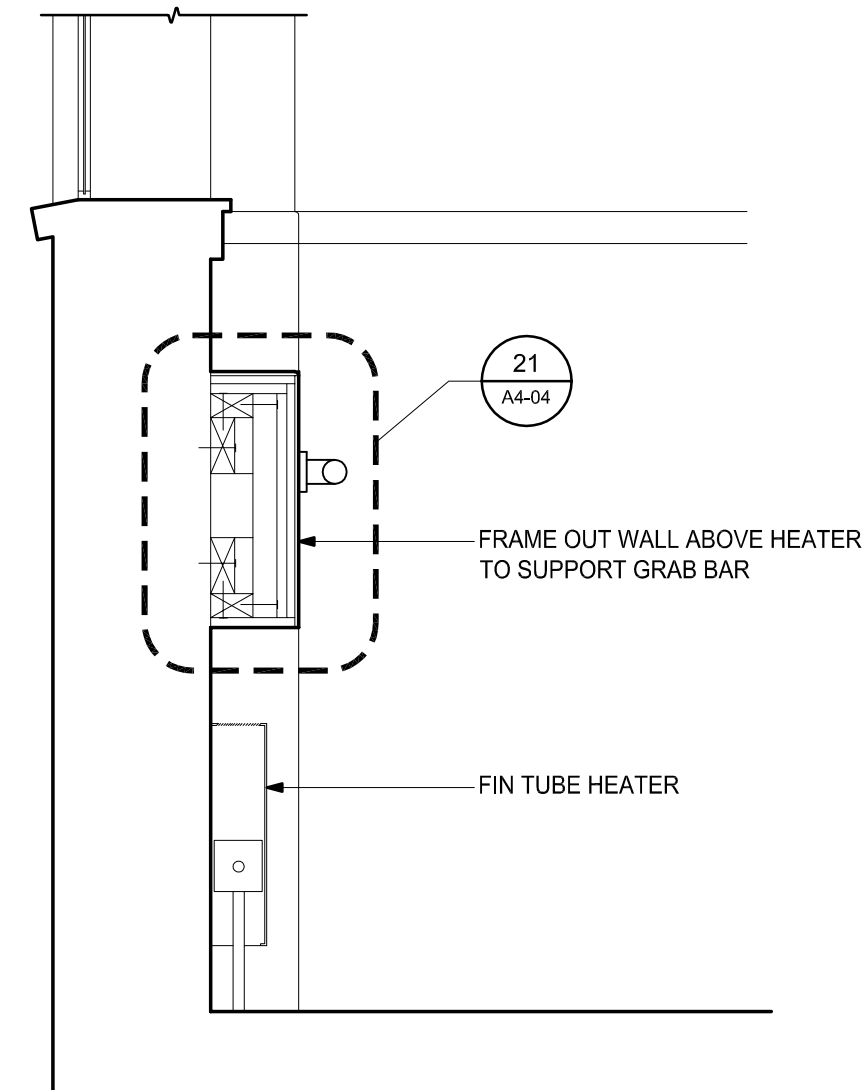
17 COUNTERTOP FRAMING PLAN AT WOMEN'S ROOM
SCALE: 1" = 1'-0"



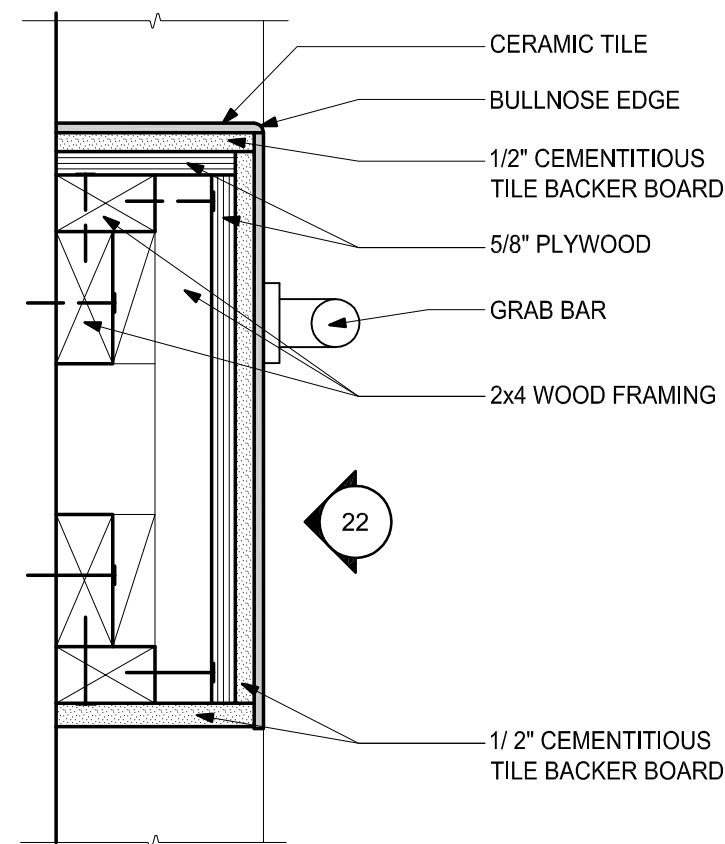
18 SECTION THROUGH VANITY
SCALE: 1" = 1'-0"



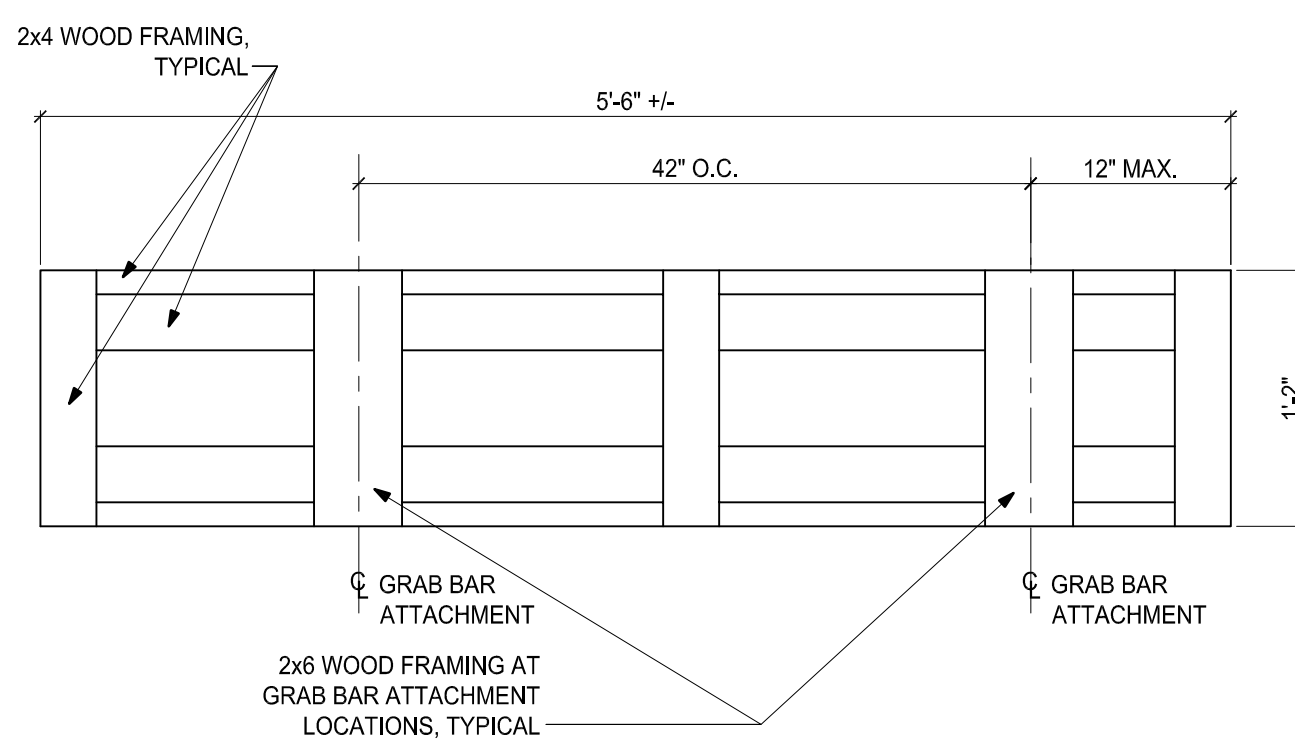
19 COUNTERTOP FLOOR MOUNTED CONCEALED ARM SIDE ELEVATION
SCALE: NOT TO SCALE



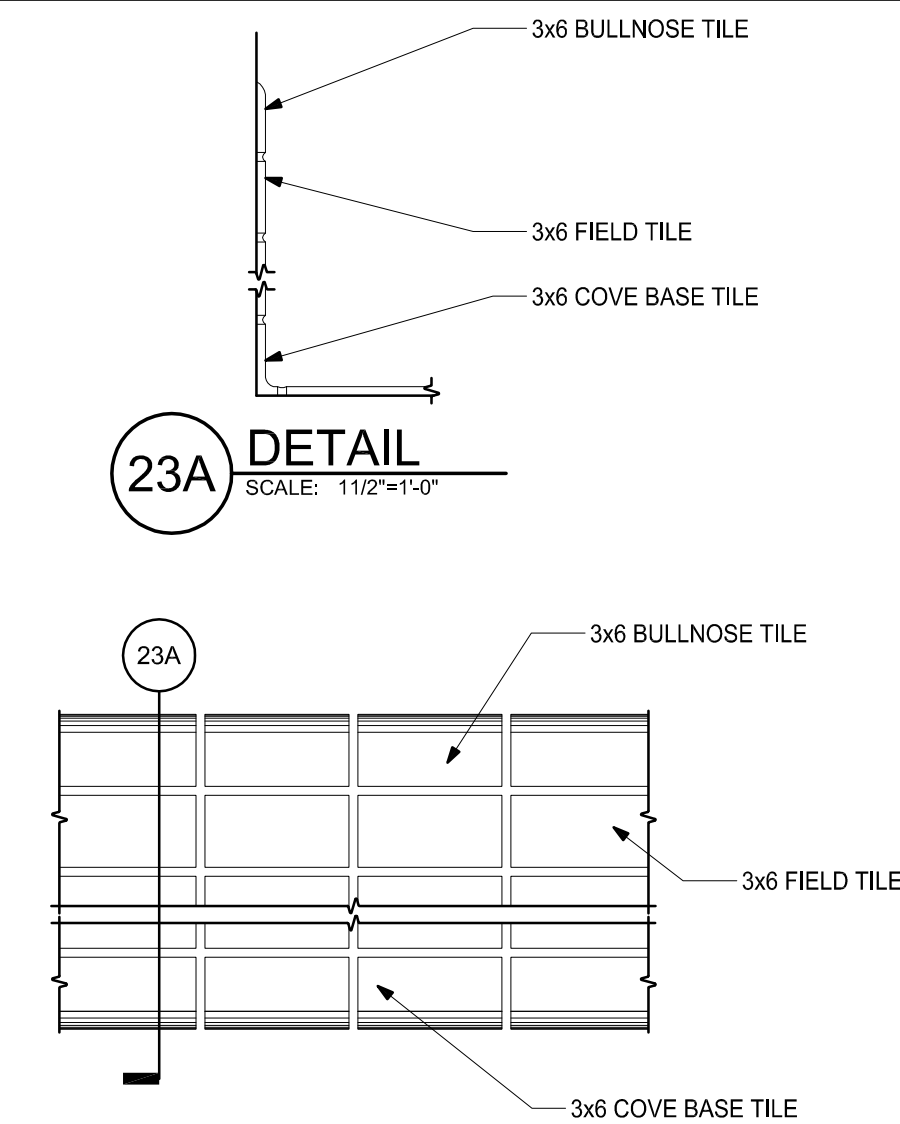
20 SECTION THROUGH GRAB BAR MOUNTING SUPPORT
SCALE: 1" = 1'-0"



21 GRAB BAR MOUNTING SUPPORT DETAIL
SCALE: N.T.S.



22 FRAMING DIAGRAM / ELEVATION AT GRAB BAR MOUNTING
SCALE: N.T.S.



23 CERAMIC TILE PATTERN
SCALE: 1 1/2" = 1'-0"

23A DETAIL
SCALE: 1 1/2" = 1'-0"

250 DORCHESTER AVENUE
BOSTON, MA 02127
P: (617) 268-8977
F: (617) 464-2971
cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

**CITY OF SOMERVILLE
CROSS STREET
SENIOR CENTER
RENOVATIONS**

**CAPITAL PROJECTS AND
PLANNING DEPARTMENT**
ONE FRANNEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

**RESTROOM
ELEVATIONS AND
FIXTURE DETAILS**

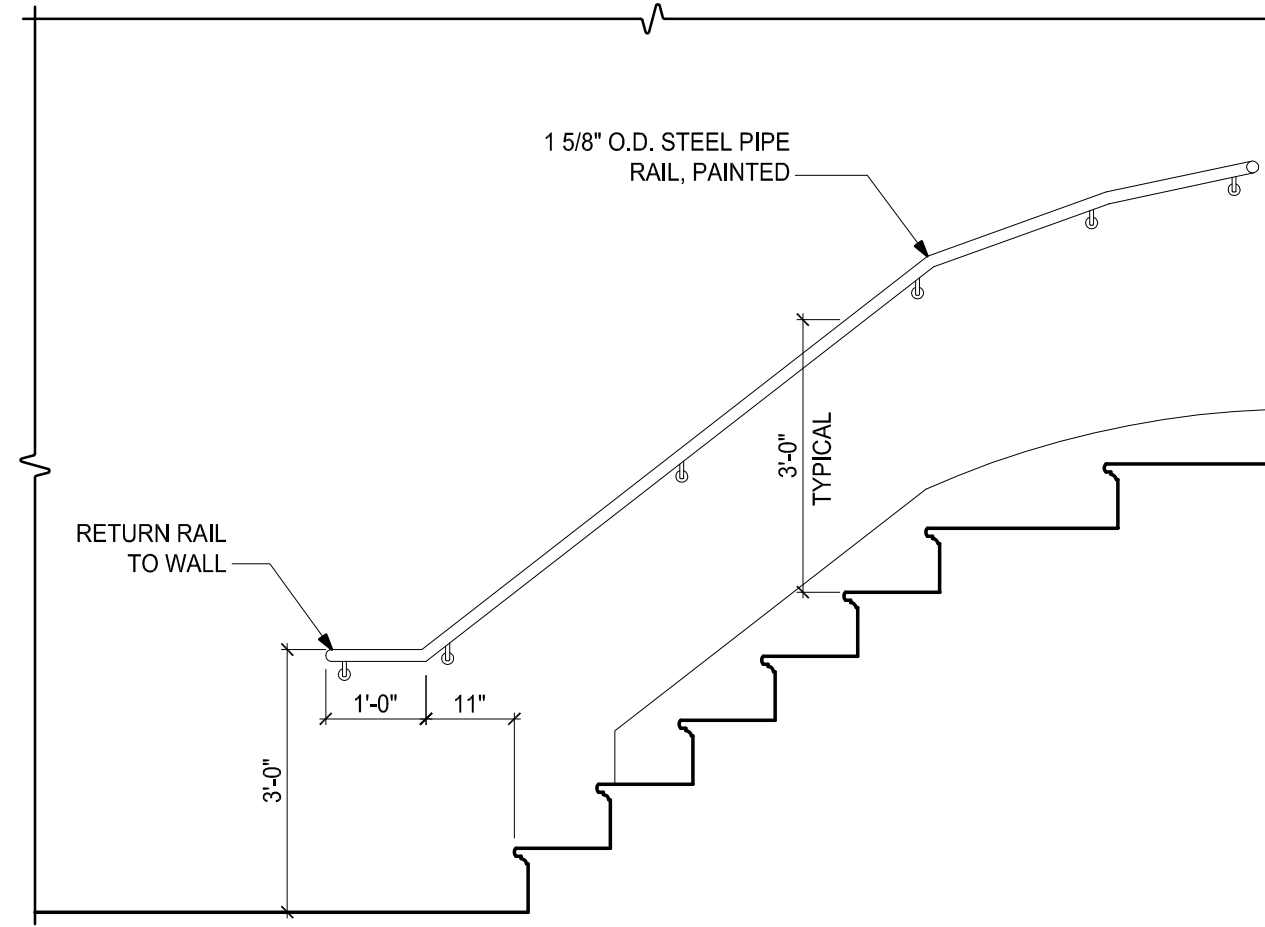
Revisions:

Submission:

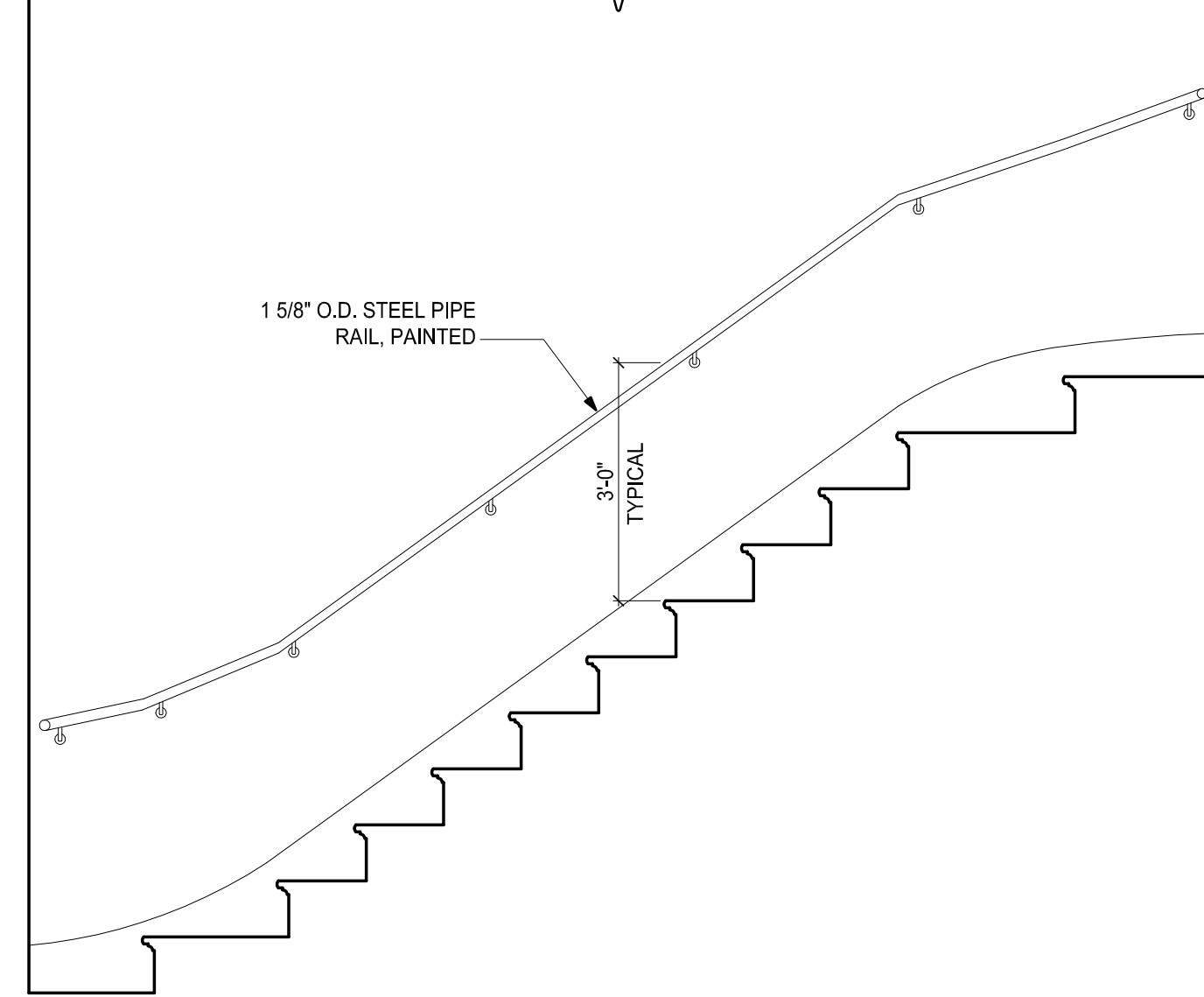
**BIDDING
DOCUMENTS**

Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: JDR/MPS
Scale: 1/4" = 1'-0"

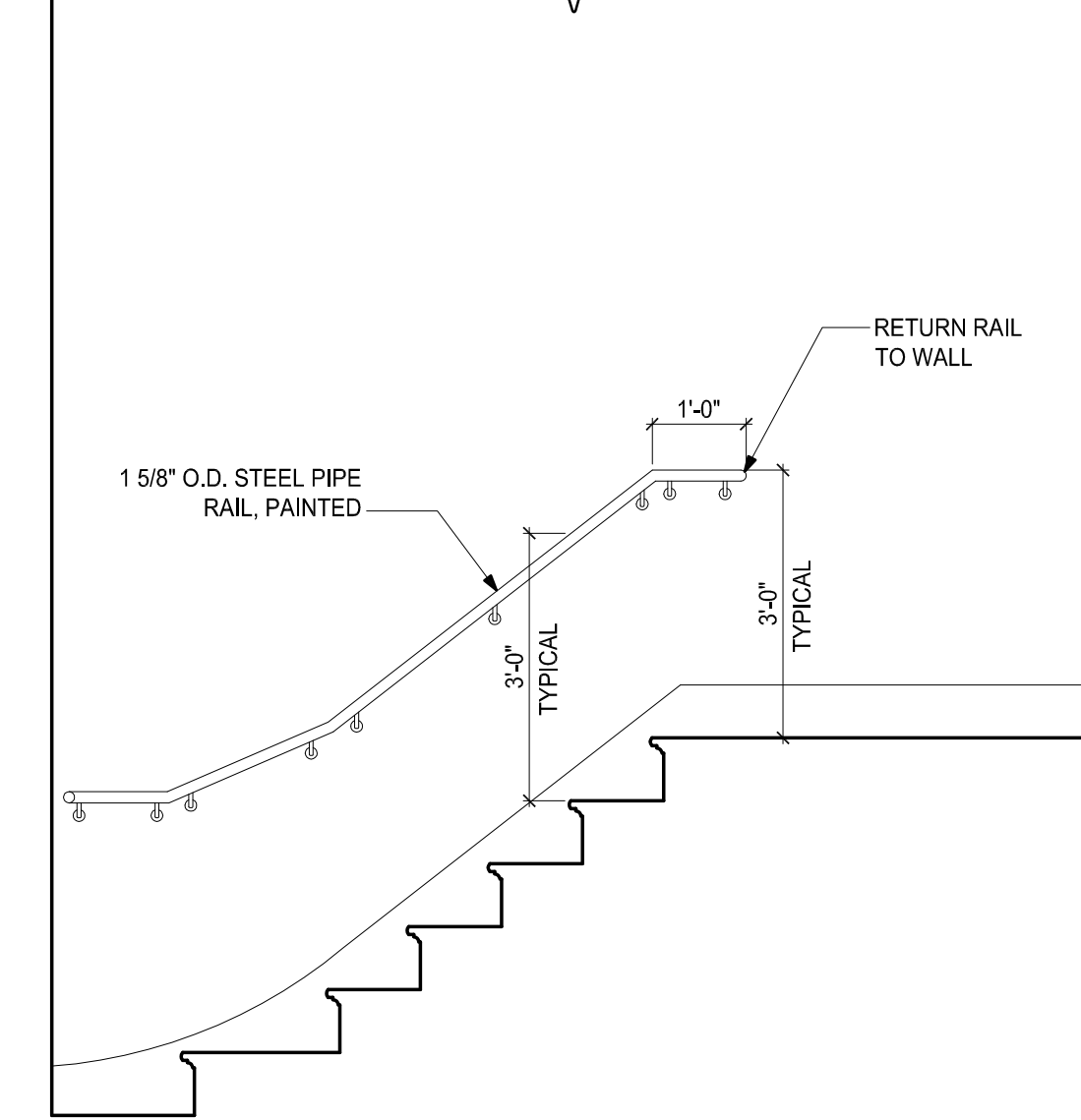
A4-04



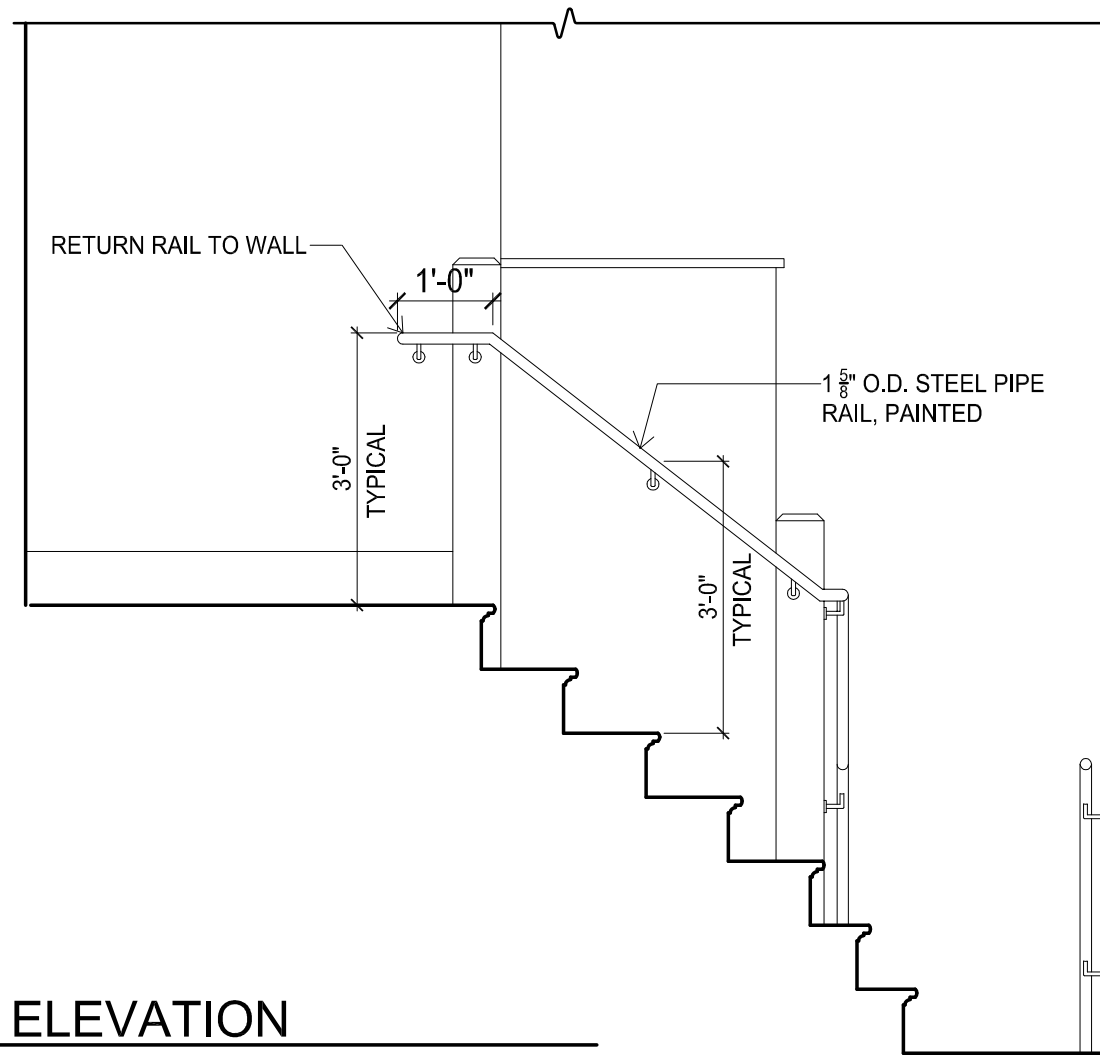
1 STAIR HANDRAIL PLAN
SCALE: 1/2" = 1'-0"



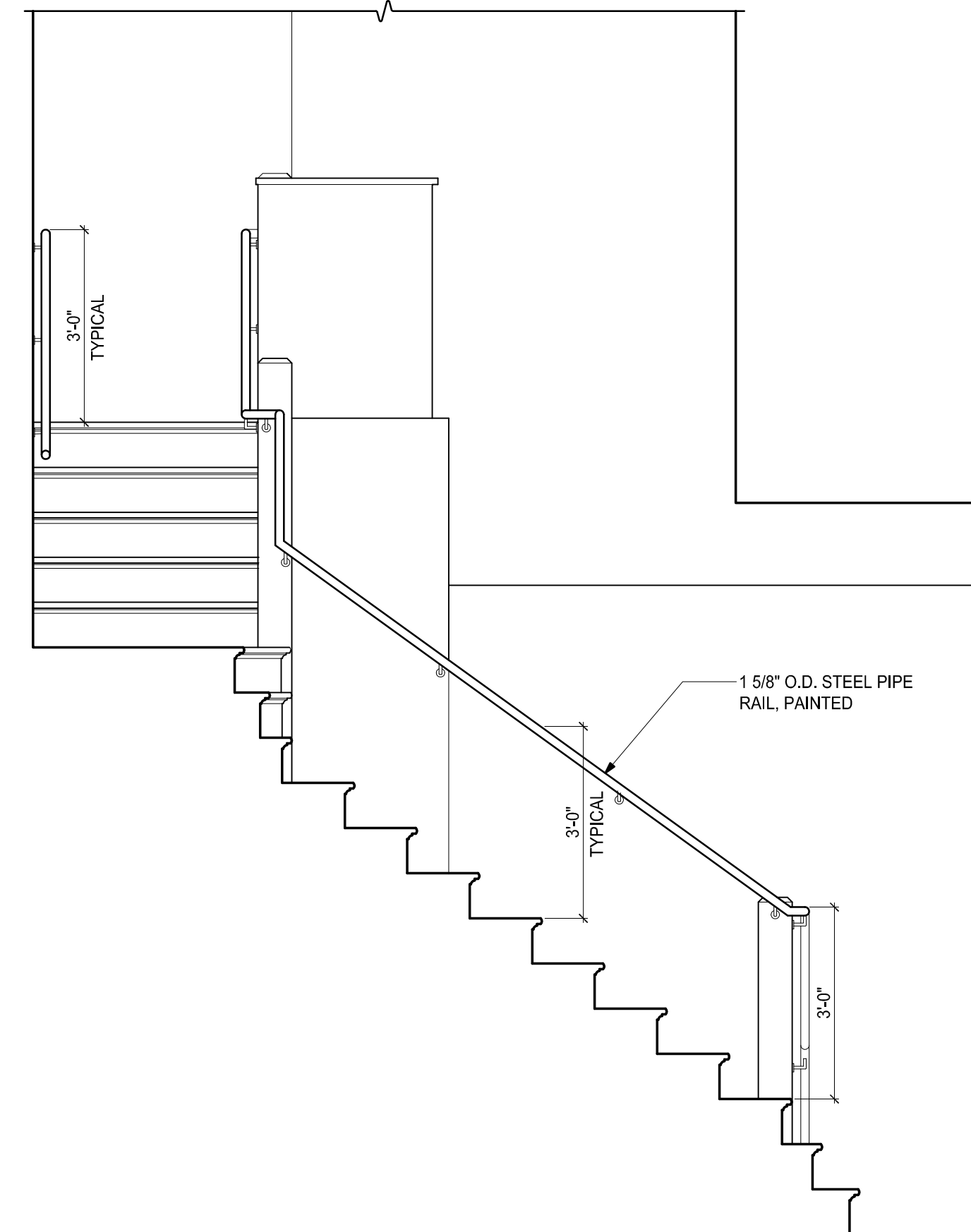
2 STAIR HANDRAIL ELEVATION
SCALE: 1/2" = 1'-0"



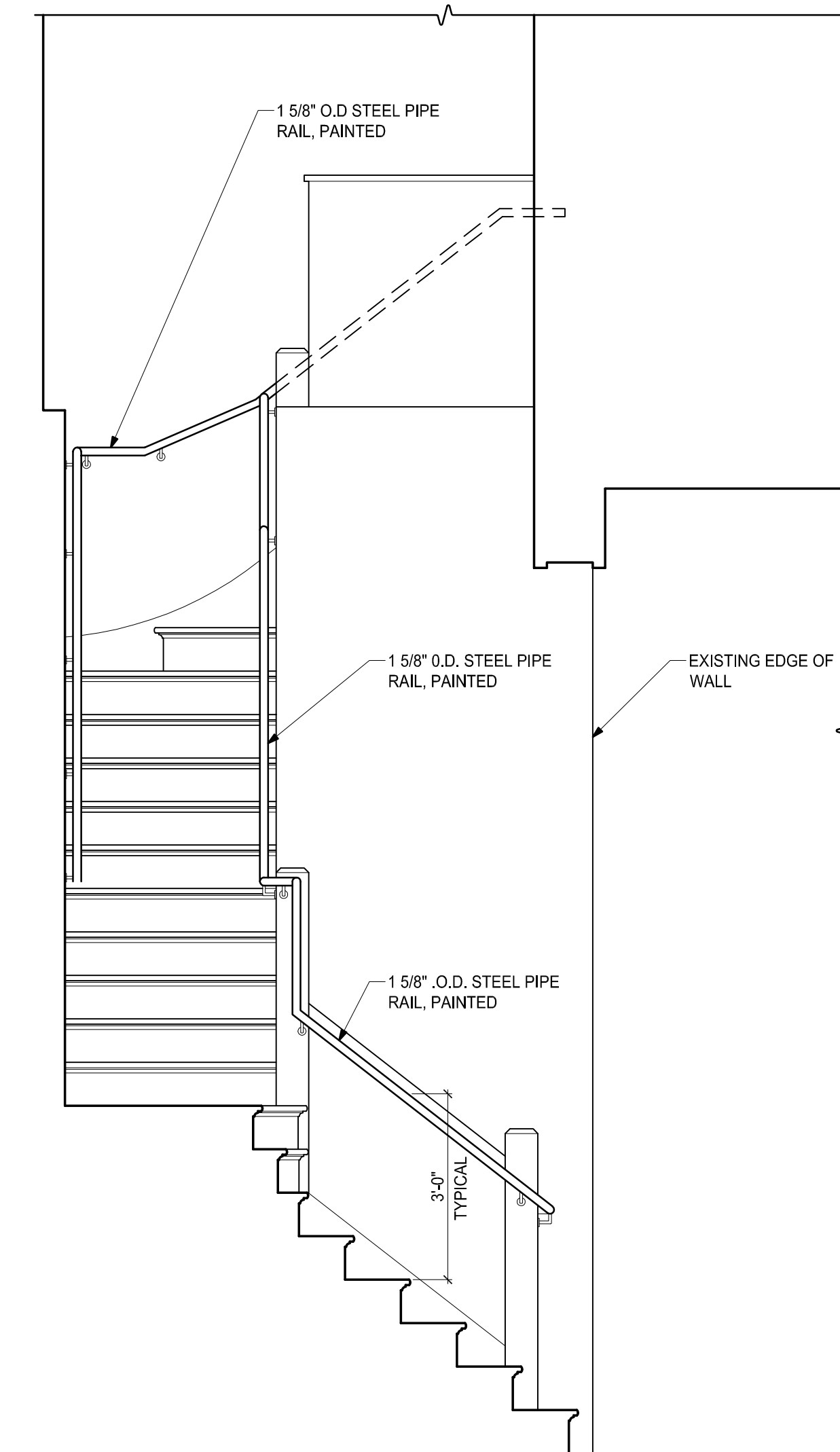
3 STAIR HANDRAIL ELEVATION
SCALE: 1/2" = 1'-0"



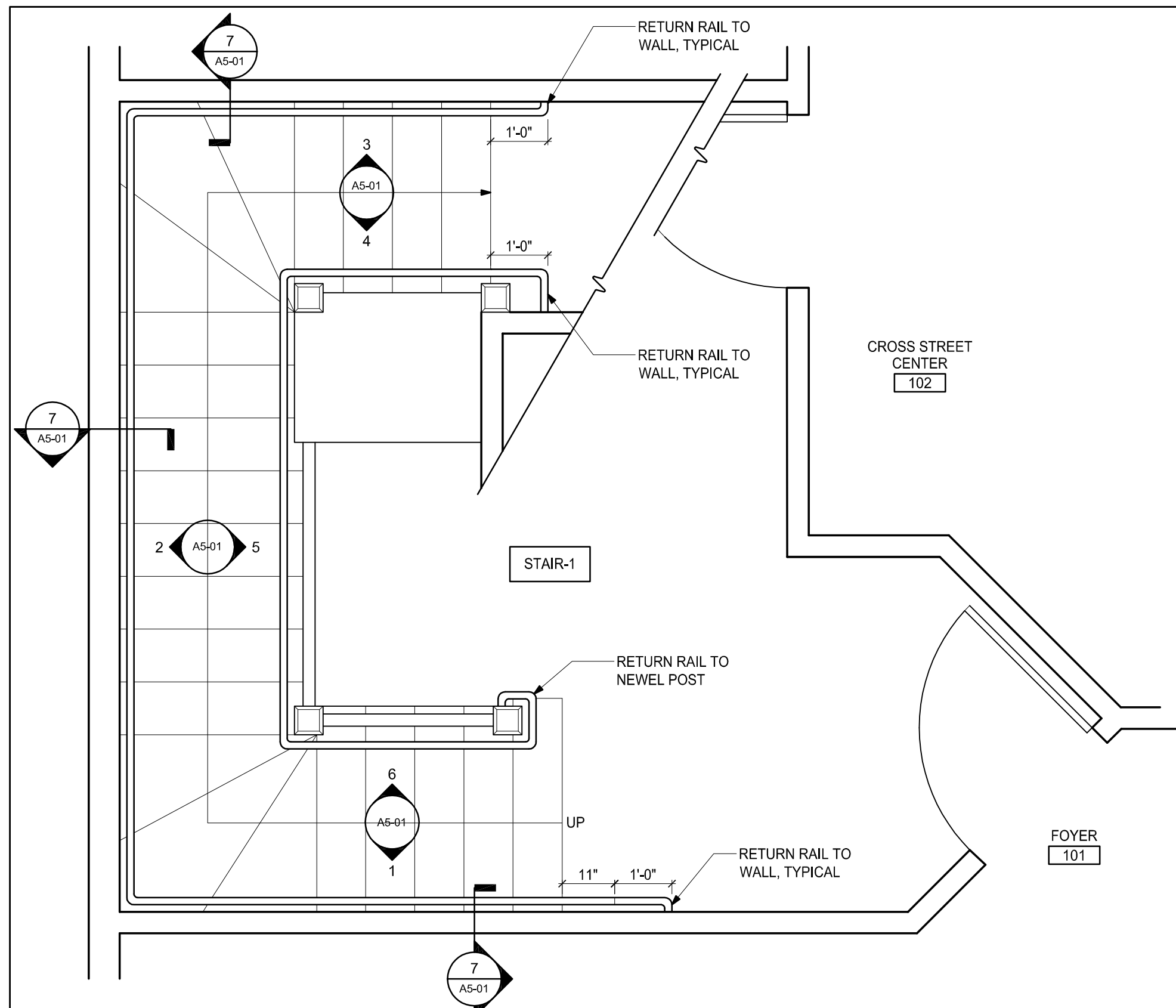
4 STAIR HANDRAIL ELEVATION
SCALE: 1/2" = 1'-0"



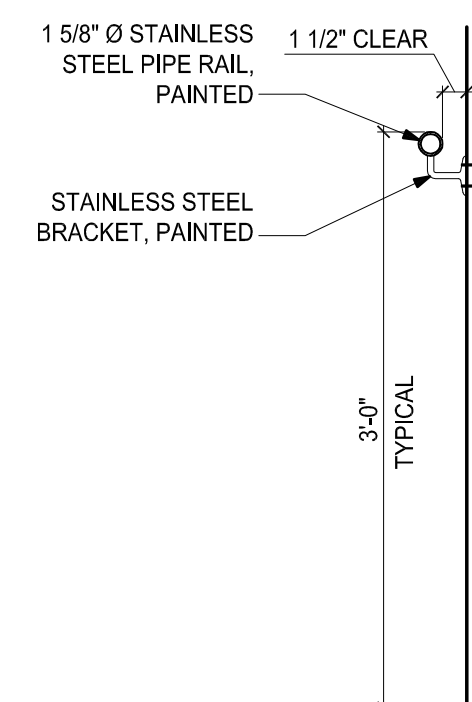
5 STAIR HANDRAIL ELEVATION
SCALE: 1/2" = 1'-0"



6 STAIR HANDRAIL ELEVATION
SCALE: 1/2" = 1'-0"



8 STAIR PLAN
SCALE: 1/2" = 1'-0"



7 HANDRAIL SECTION
SCALE: 1" = 1'-0"



250 DORCHESTER AVENUE
BOSTON, MA 02127
P: (617) 268-8977
F: (617) 464-2971
cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF SOMERVILLE CROSS STREET SENIOR CENTER RENOVATIONS



CAPITAL PROJECTS AND
PLANNING DEPARTMENT
ONE FRANNEY ROAD
SOMERVILLE, MA 02145

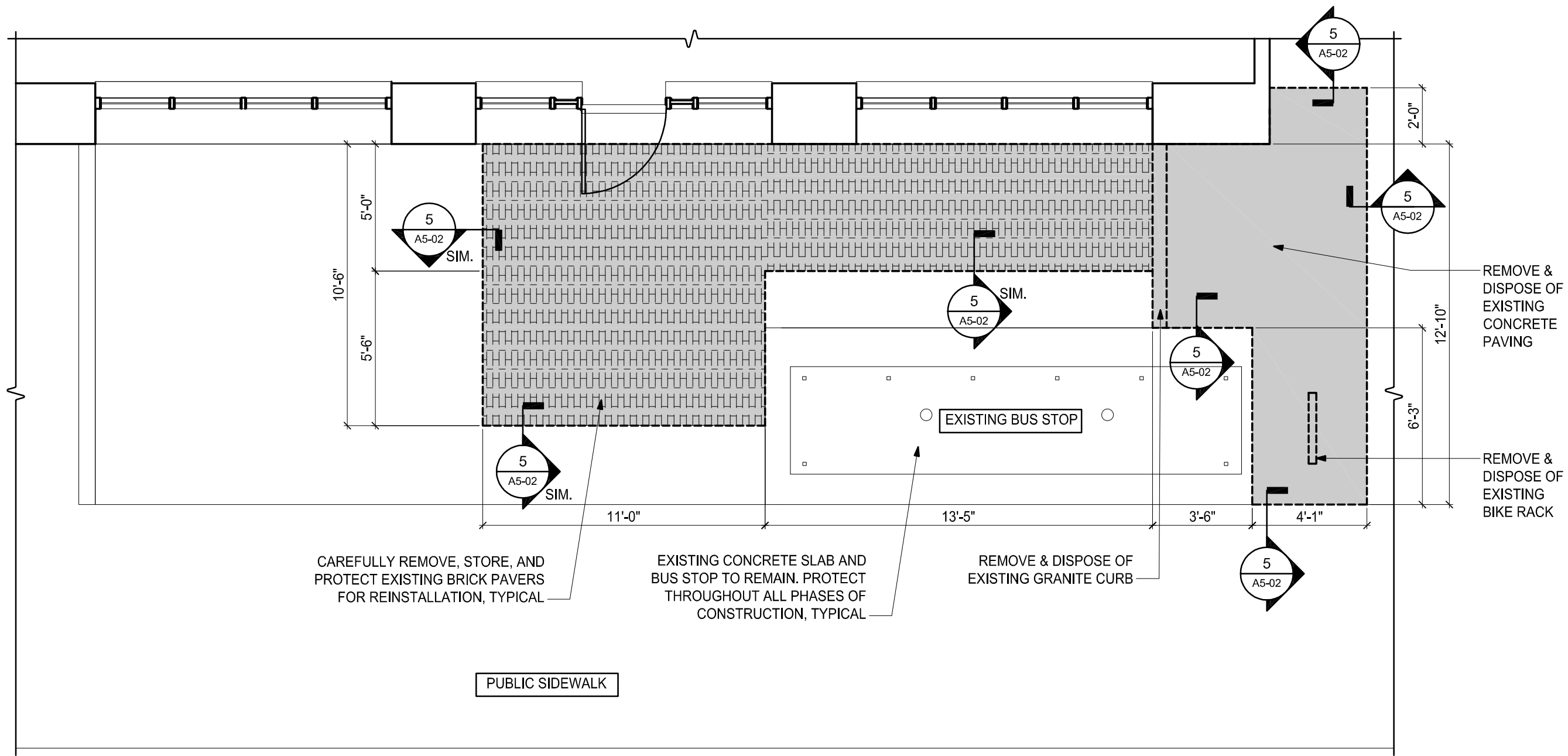
Drawing Title:
**STAIR PLAN,
HANDRAIL ELEVATIONS
AND DETAILS**

Revisions:

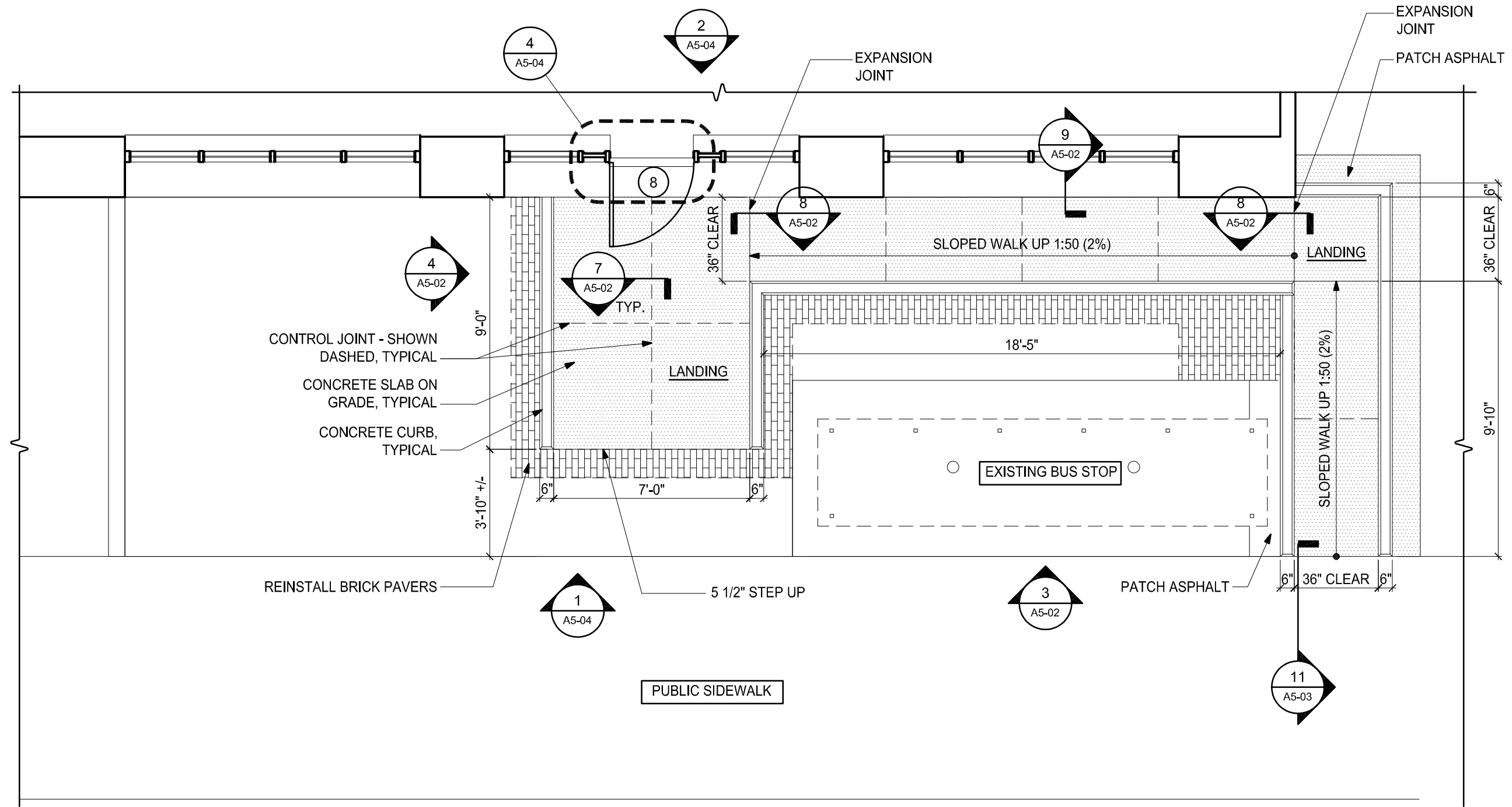
Submission:
**BIDDING
DOCUMENTS**

Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: MPS
Scale: 1/8" = 1'-0"

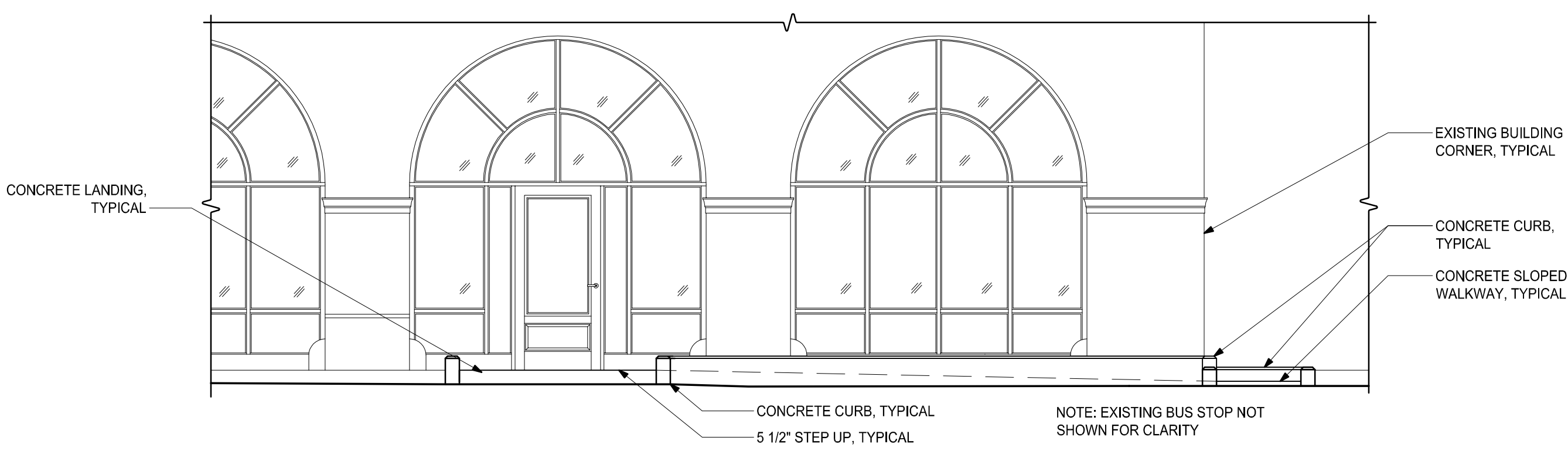
A5-01



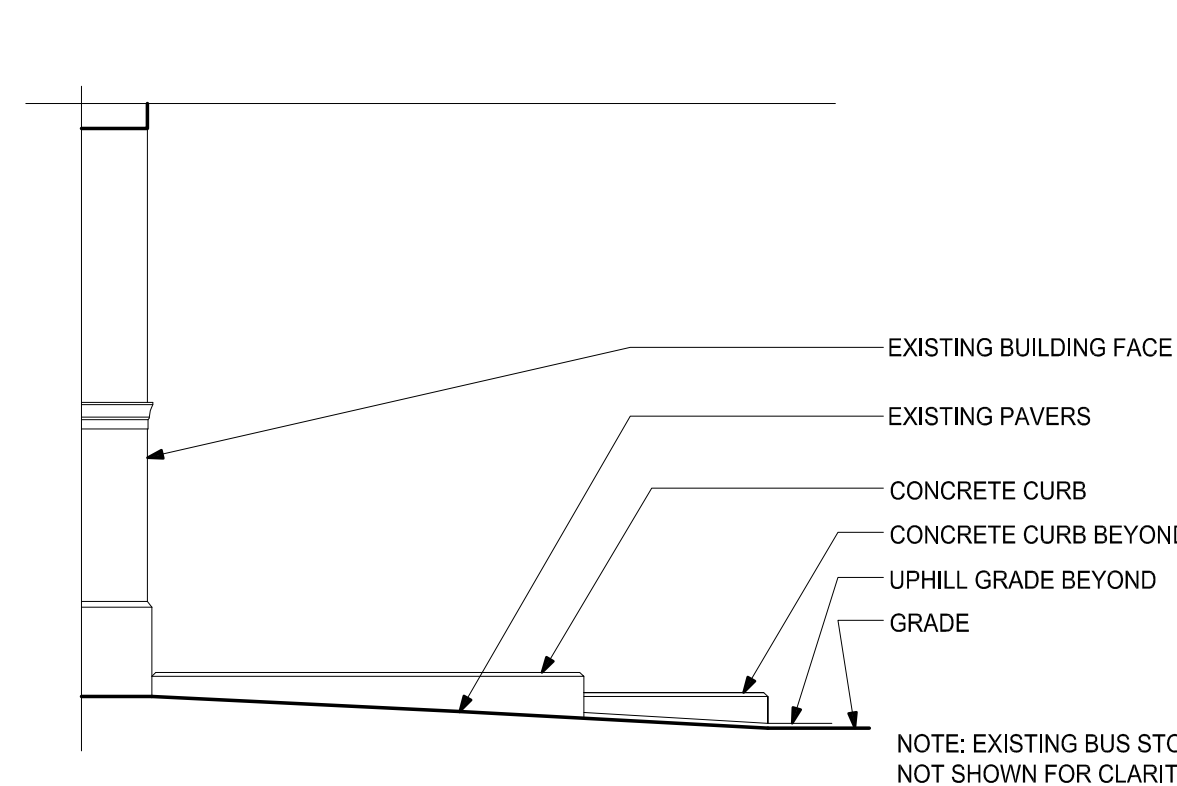
1 SIDEWALK DEMOLITION PLAN
SCALE: 1/4" = 1'-0"



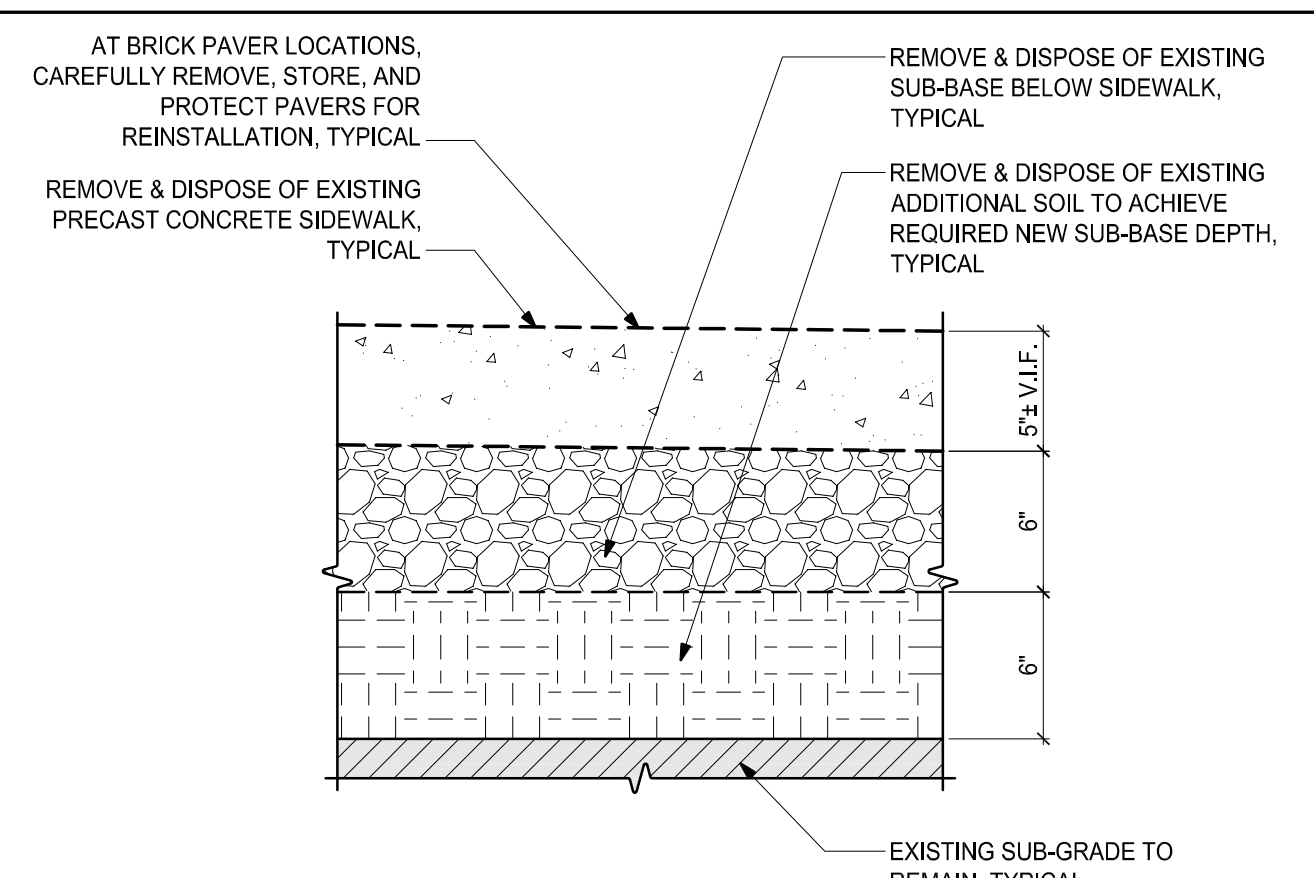
2 SLOPED SIDEWALK PLAN
SCALE: 1/4" = 1'-0"



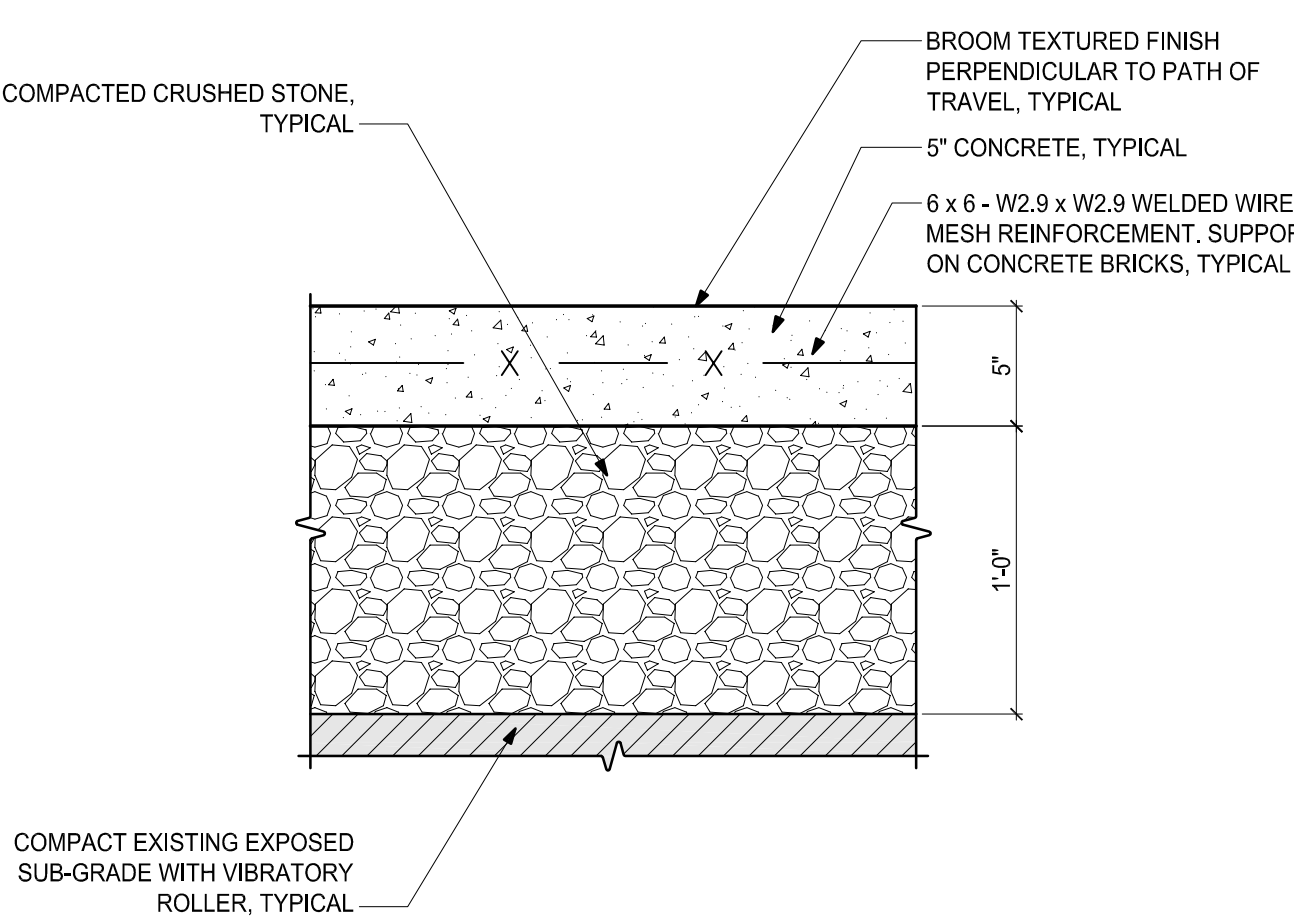
3 SLOPED WALK ELEVATION
SCALE: 1/4" = 1'-0"



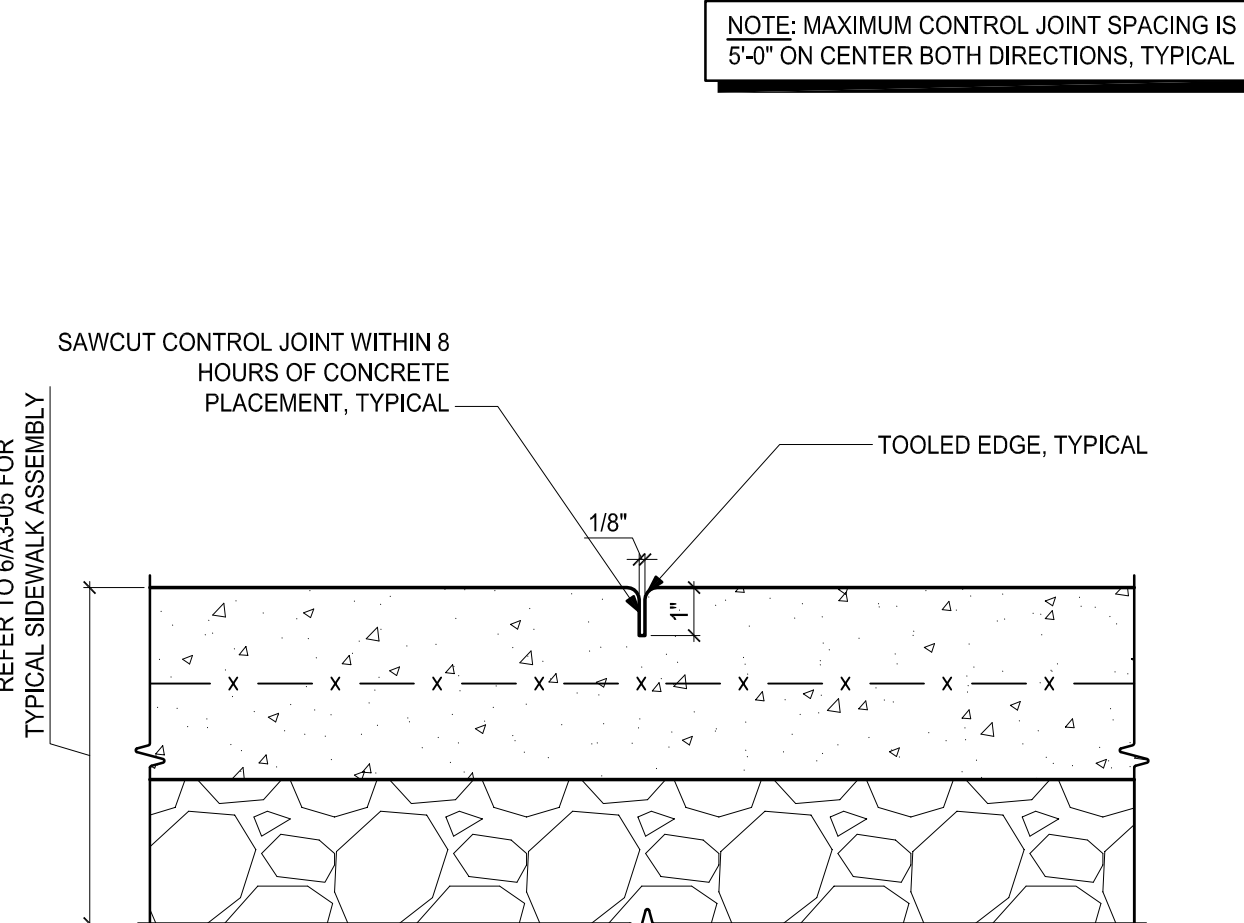
4 ENTRY PLATFORM ELEVATION
SCALE: 1/4" = 1'-0"



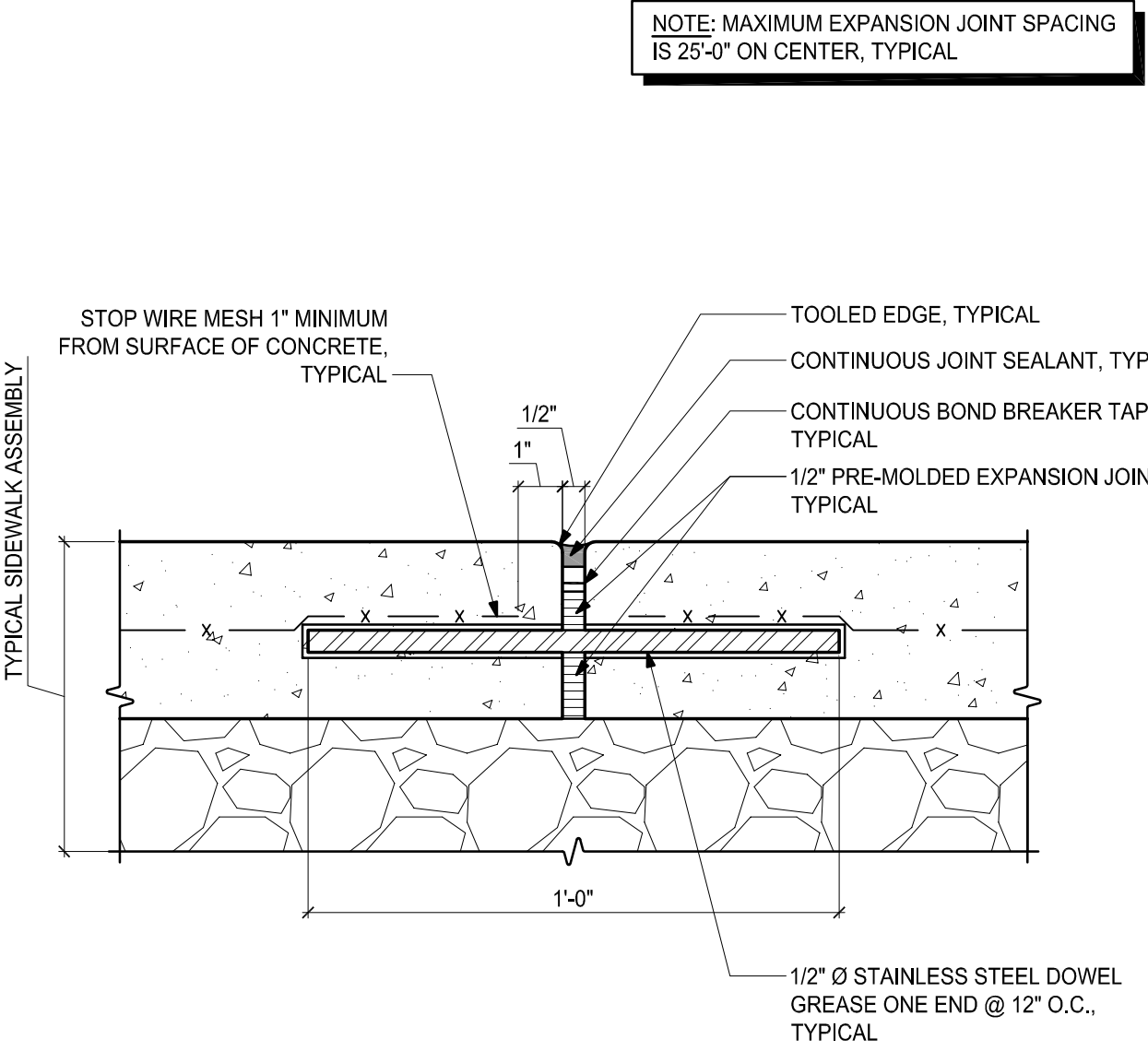
5 TYPICAL SIDEWALK DEMOLITION SECTION
SCALE: 1-1/2" = 1'-0"



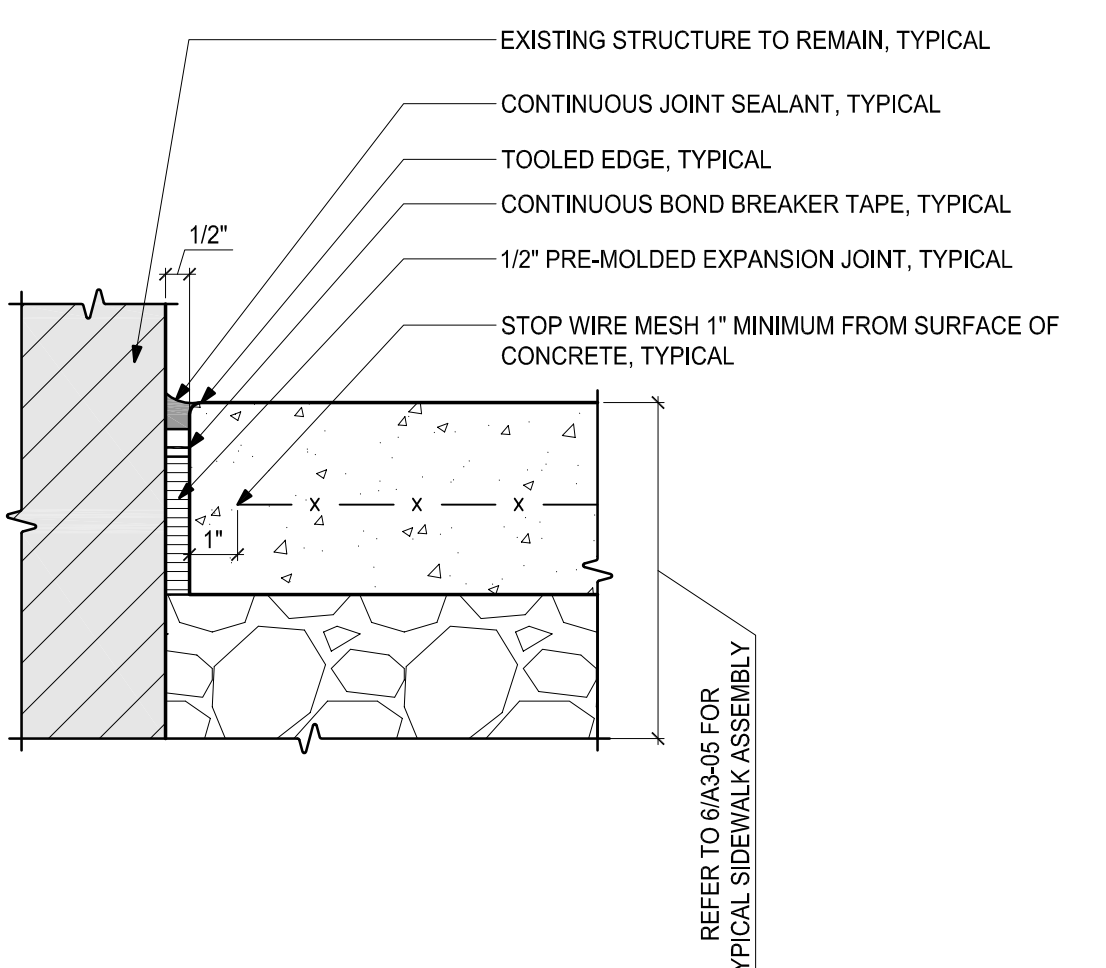
6 TYPICAL SIDEWALK ASSEMBLY SECTION
SCALE: 1-1/2" = 1'-0"



7 TYPICAL SIDEWALK CONTROL JOINT DETAIL
SCALE: 3" = 1'-0"



8 TYPICAL SIDEWALK EXPANSION JOINT DETAIL
SCALE: 3" = 1'-0"



9 TYPICAL SIDEWALK EXPANSION JOINT AT EXISTING STRUCTURE DETAIL
SCALE: 3" = 1'-0"

250 DORCHESTER AVENUE
BOSTON, MA 02127
P: (617) 268-8977
F: (617) 464-2971
cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF
SOMERVILLE
CROSS STREET
SENIOR CENTER
RENOVATIONS

CAPITAL PROJECTS AND
PLANNING DEPARTMENT
ONE FRANNEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

FRONT ENTRY
SLOPED SIDEWALK
PLANS, ELEVATIONS
AND DETAILS

Revisions:

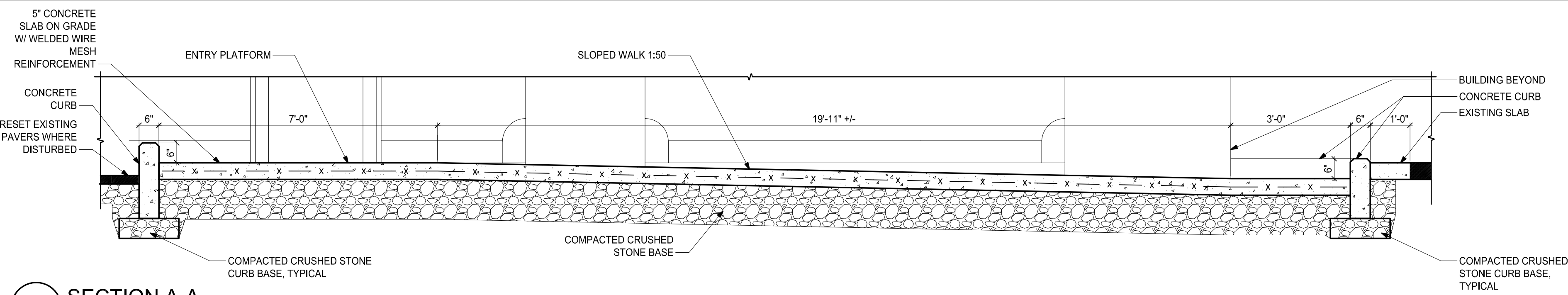
Submission:

BIDDING
DOCUMENTS

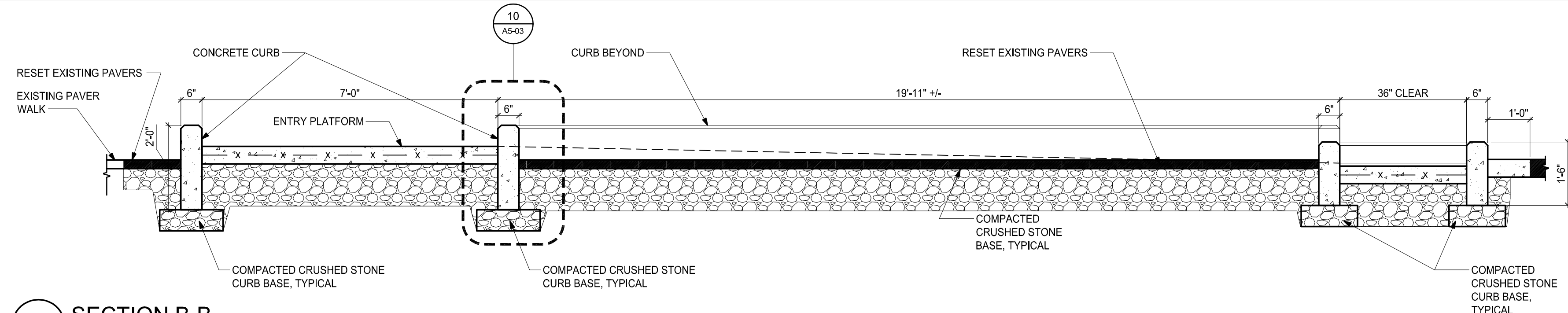
Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: MPS
Scale: AS NOTED

A5-02

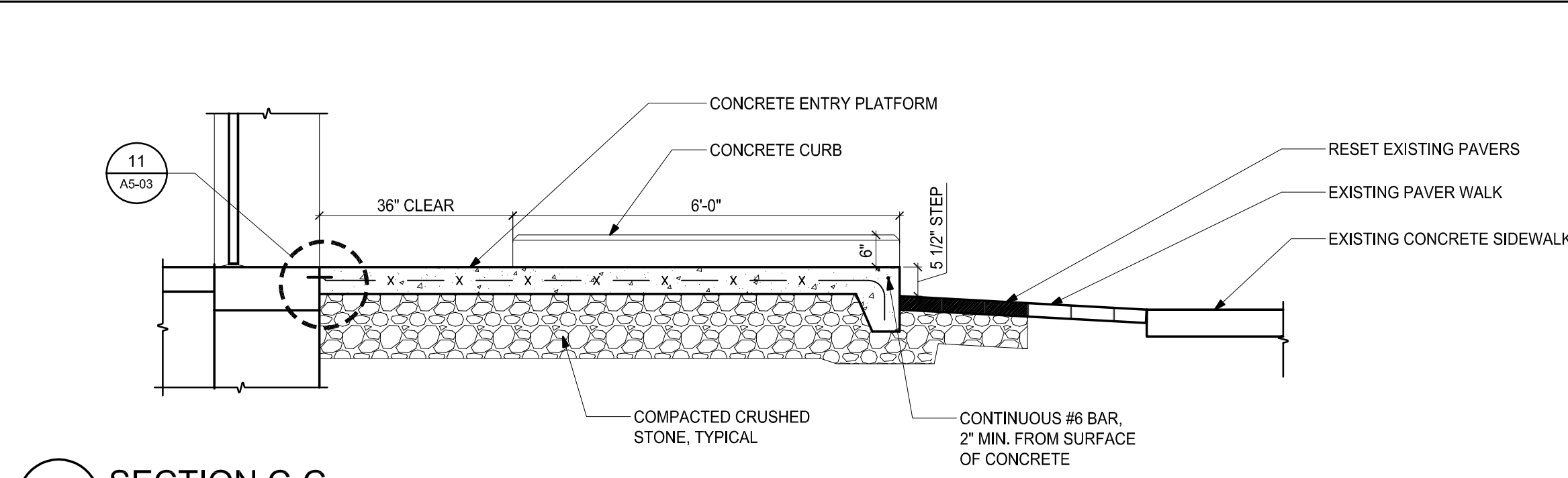
P:\2015\15036-C\AutoCAD\Sheets\15036-C-A5-03.dwg, Jul 28, 2016, 4: 7:01 pm, AVILLET



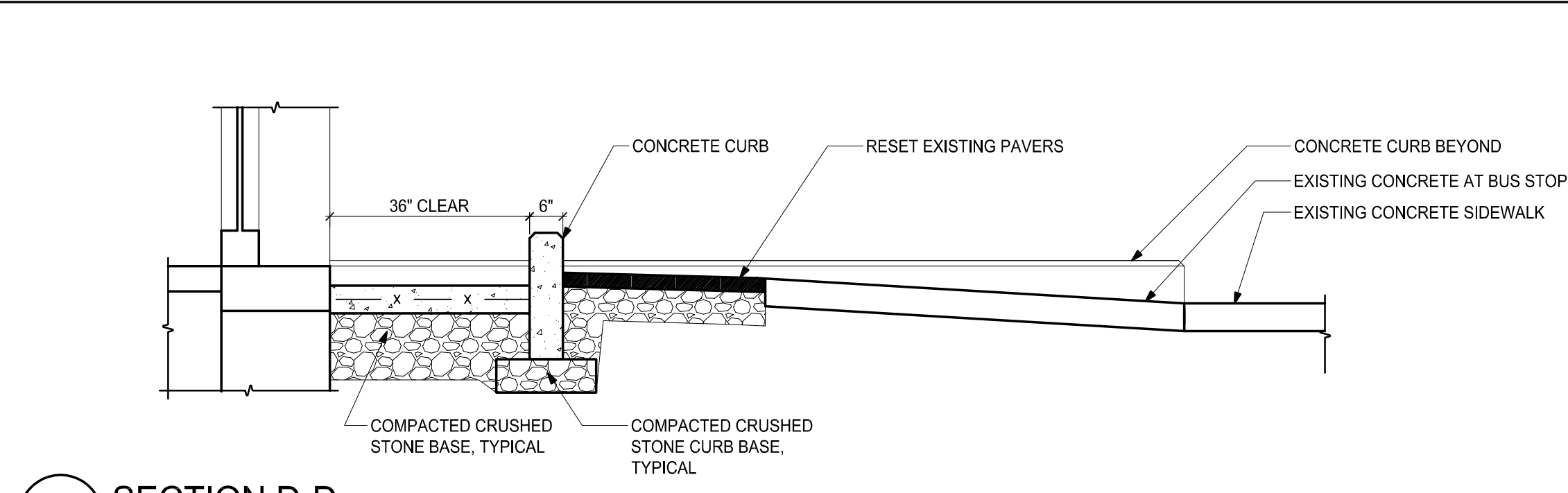
AA SECTION A-A
SCALE: 1/2" = 1'-0"



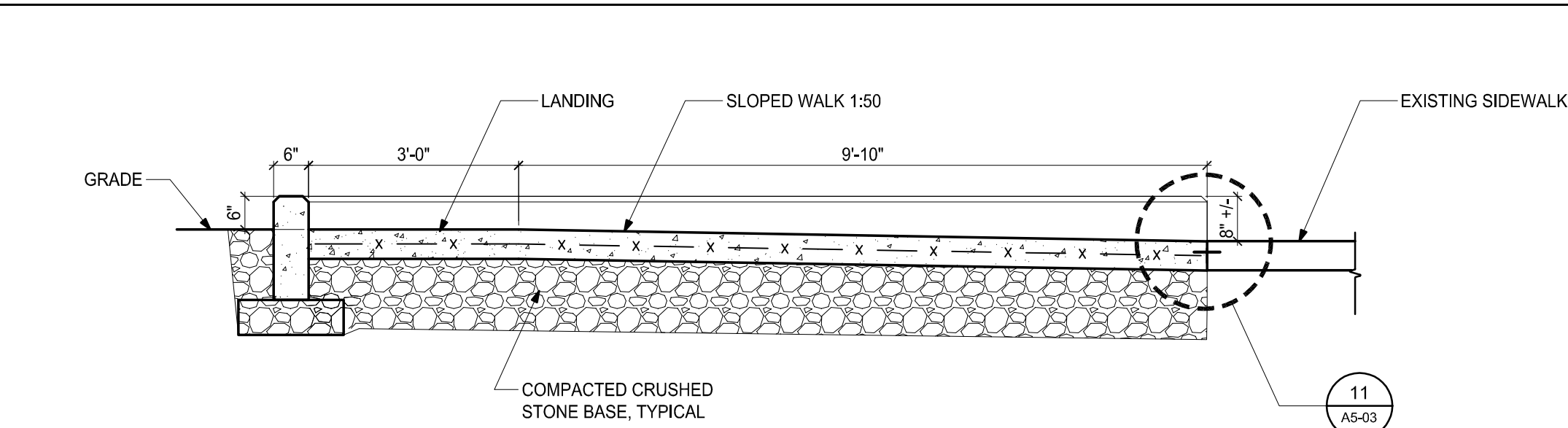
BB SECTION B-B
SCALE: 1/2" = 1'-0"



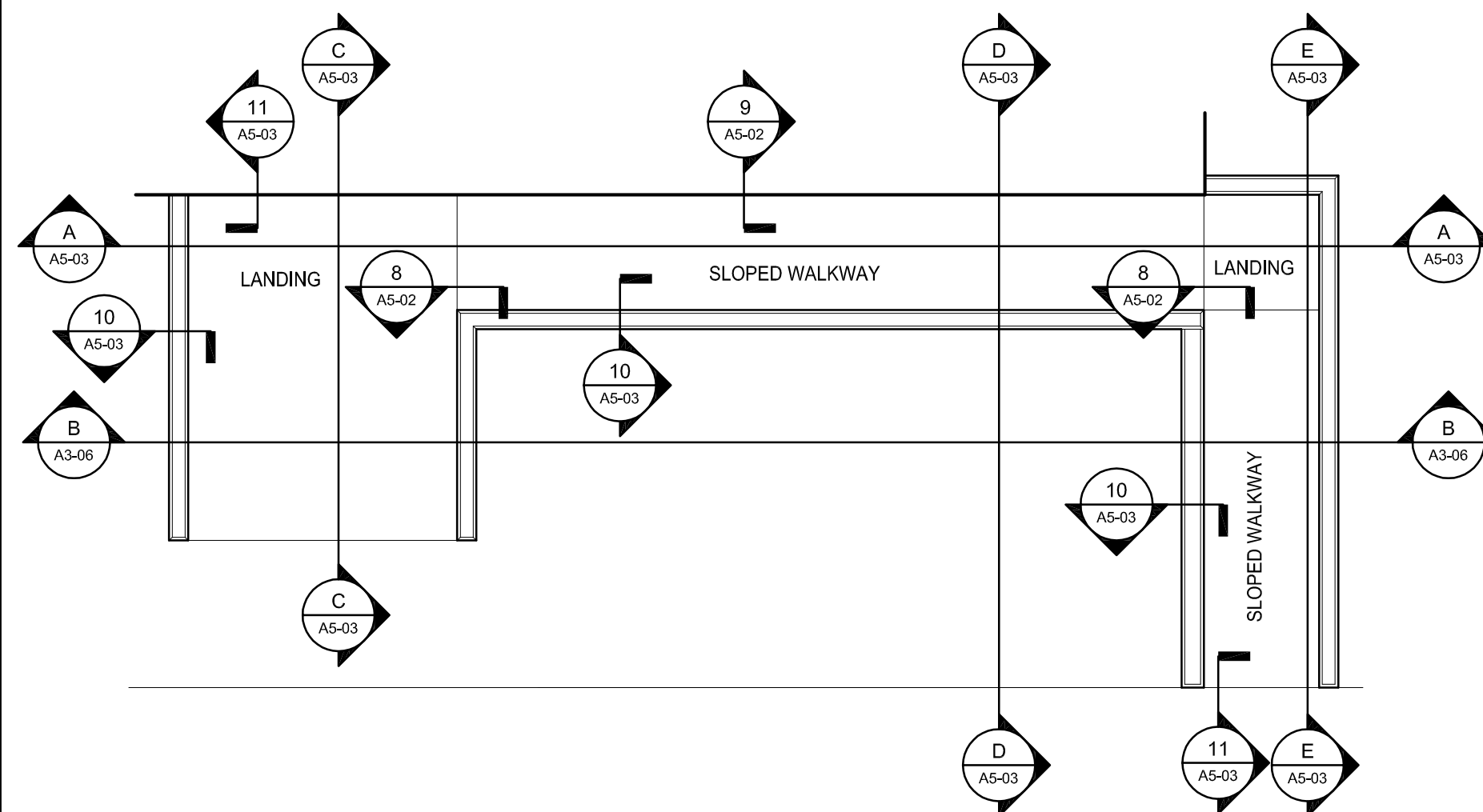
CC SECTION C-C
SCALE: 1/2" = 1'-0"



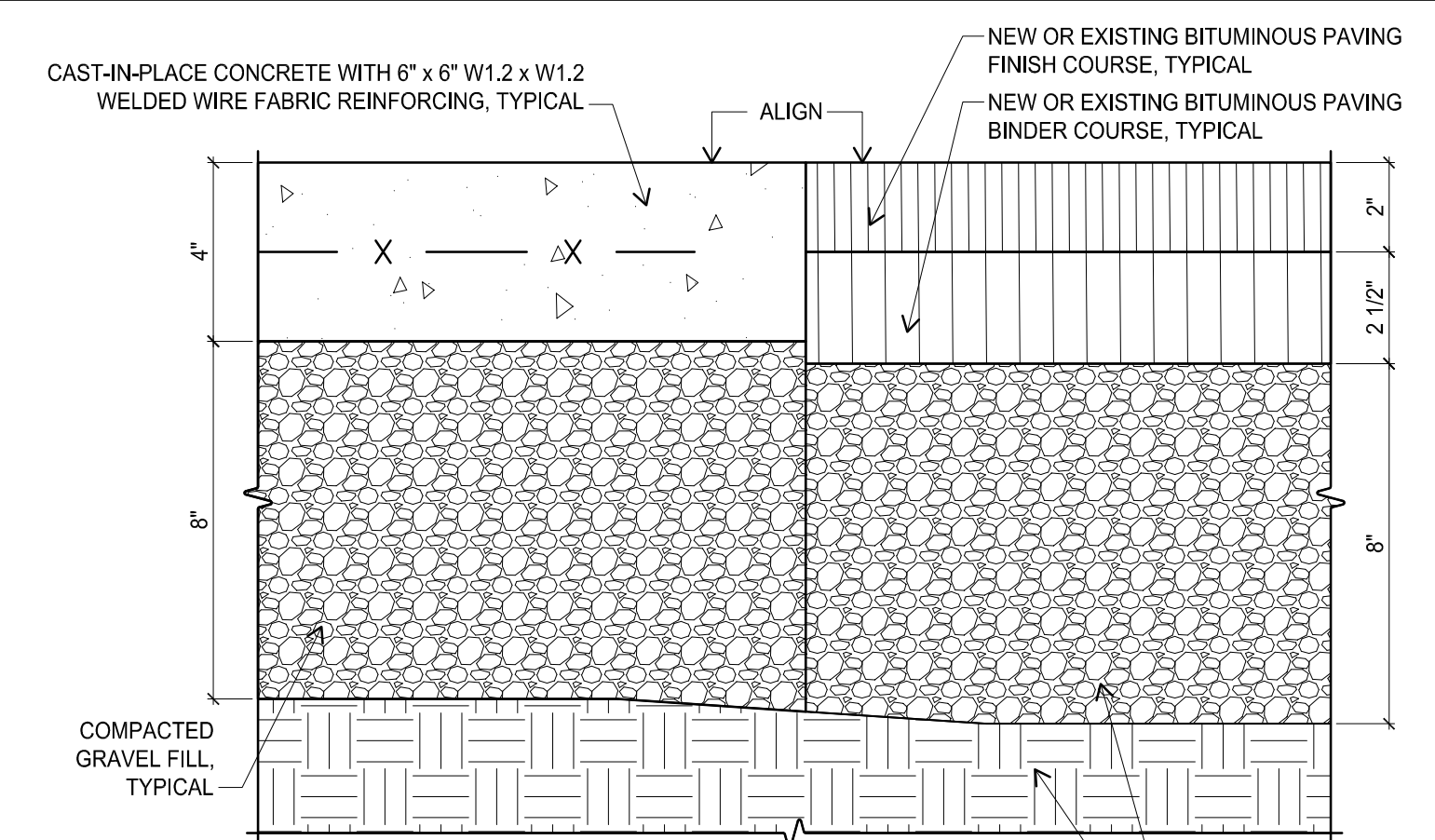
DD SECTION D-D
SCALE: 1/2" = 1'-0"



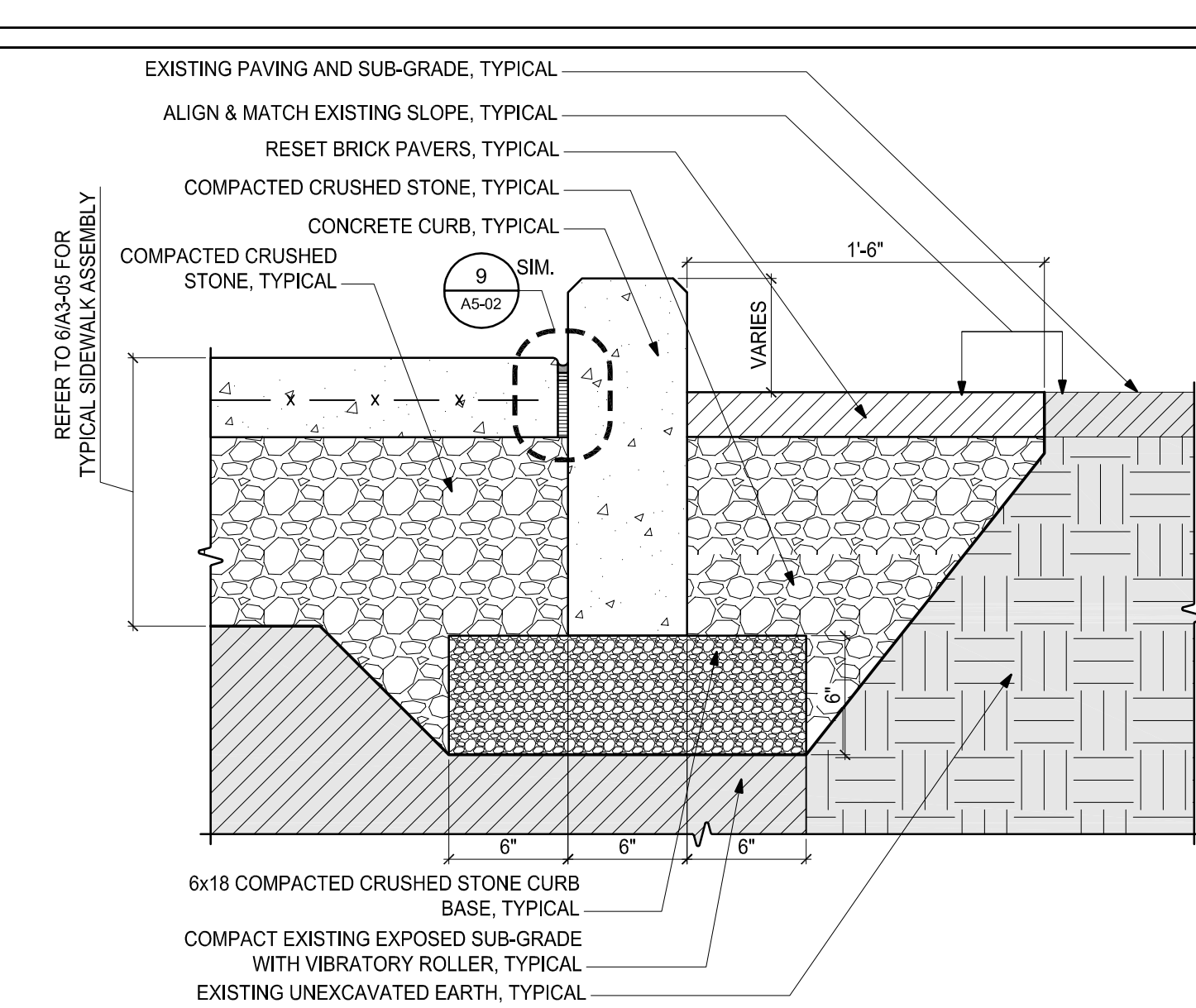
EE SECTION E-E
SCALE: 1/2" = 1'-0"



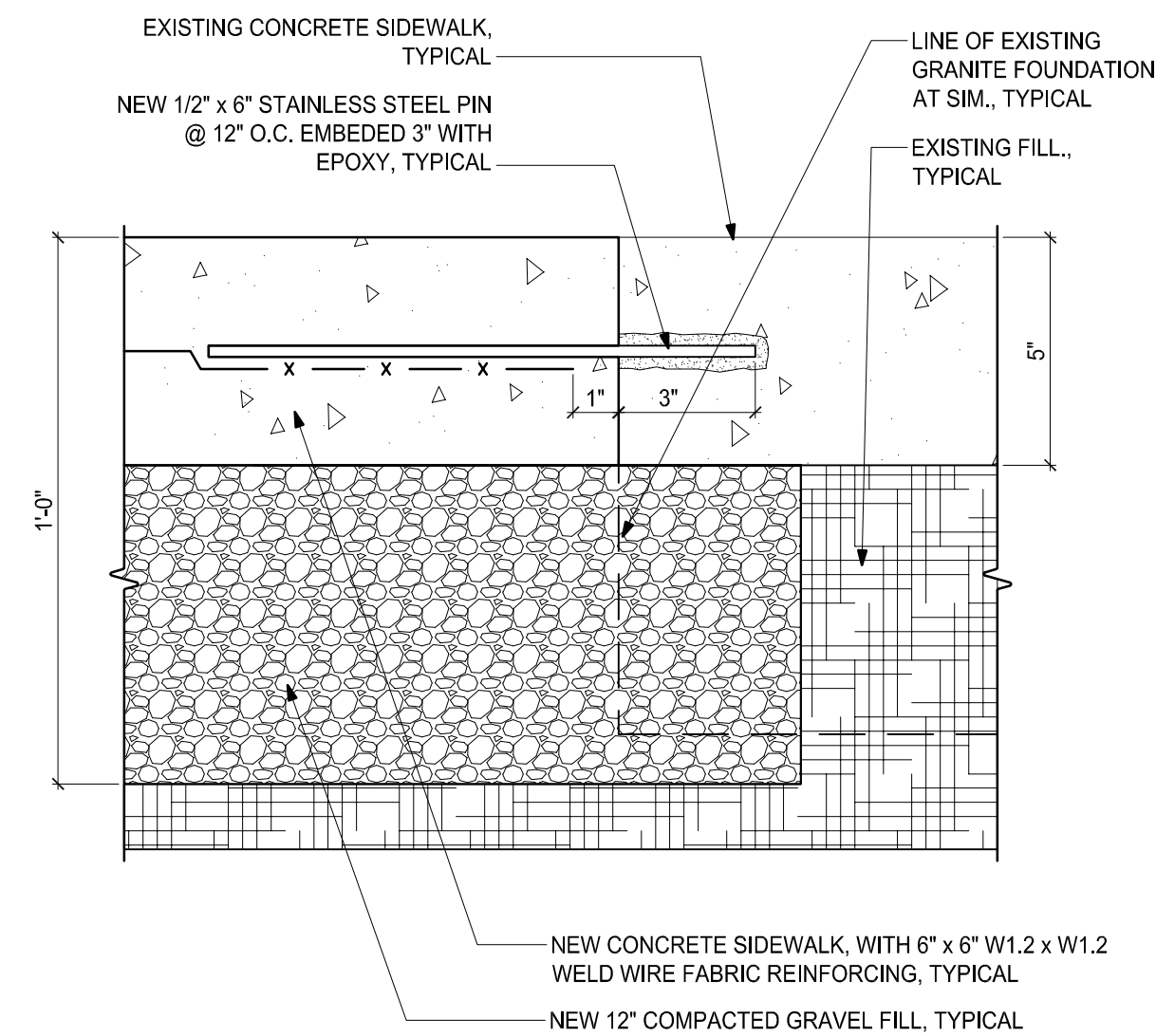
KEY PLAN
SCALE: NOT TO SCALE



9 TYPICAL TRANSITION BETWEEN
CONCRETE AND BITUMINOUS WALKWAYS
SCALE: 3/4" = 1'-0"



10 TYPICAL
SIDEWALK & CURB SECTION
SCALE: 1-1/2" = 1'-0"



11 DETAIL AT SIDEWALK /
FOUNDATION PIN CONNECTION
SCALE: 3" = 1'-0"



250 DORCHESTER AVENUE
BOSTON, MA 02127

P: (617) 268-8977
F: (617) 464-2971

cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF SOMERVILLE CROSS STREET SENIOR CENTER RENOVATIONS



CAPITAL PROJECTS AND PLANNING DEPARTMENT

ONE FRANNEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

FRONT ENTRY SLOPED SIDEWALK SECTIONS AND DETAILS

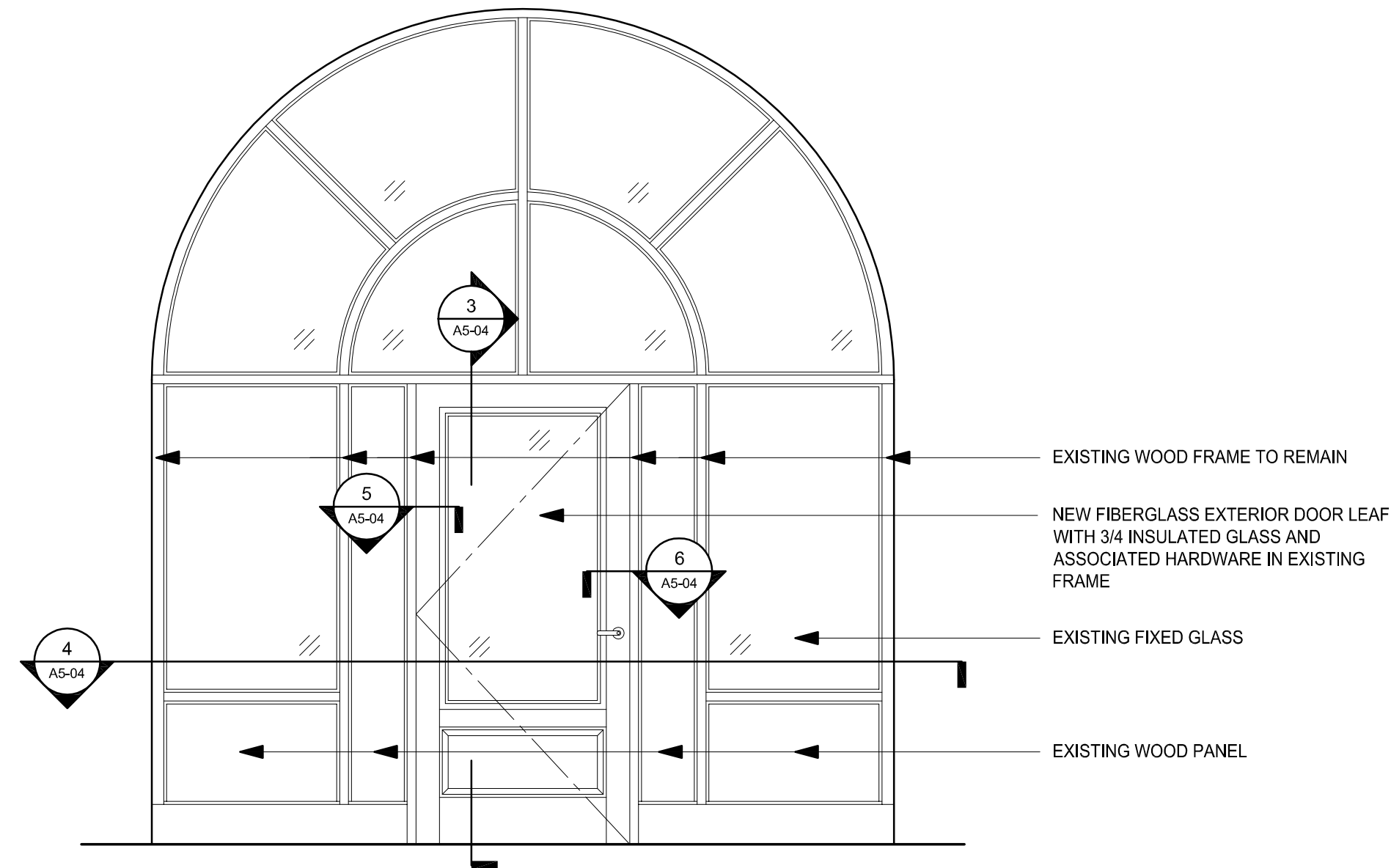
Revisions:

Submission:

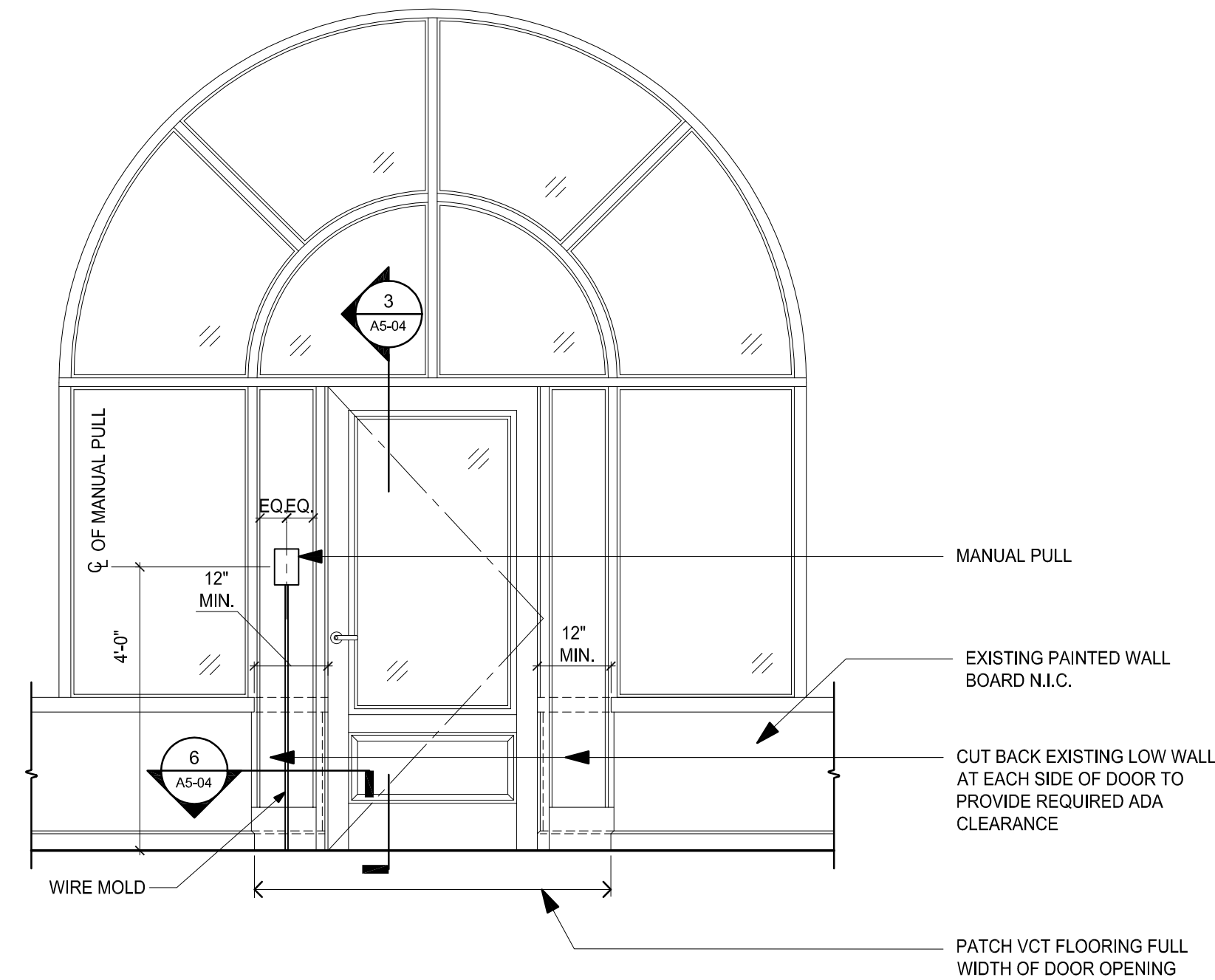
BIDDING DOCUMENTS

Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: MPS
Scale: AS NOTED

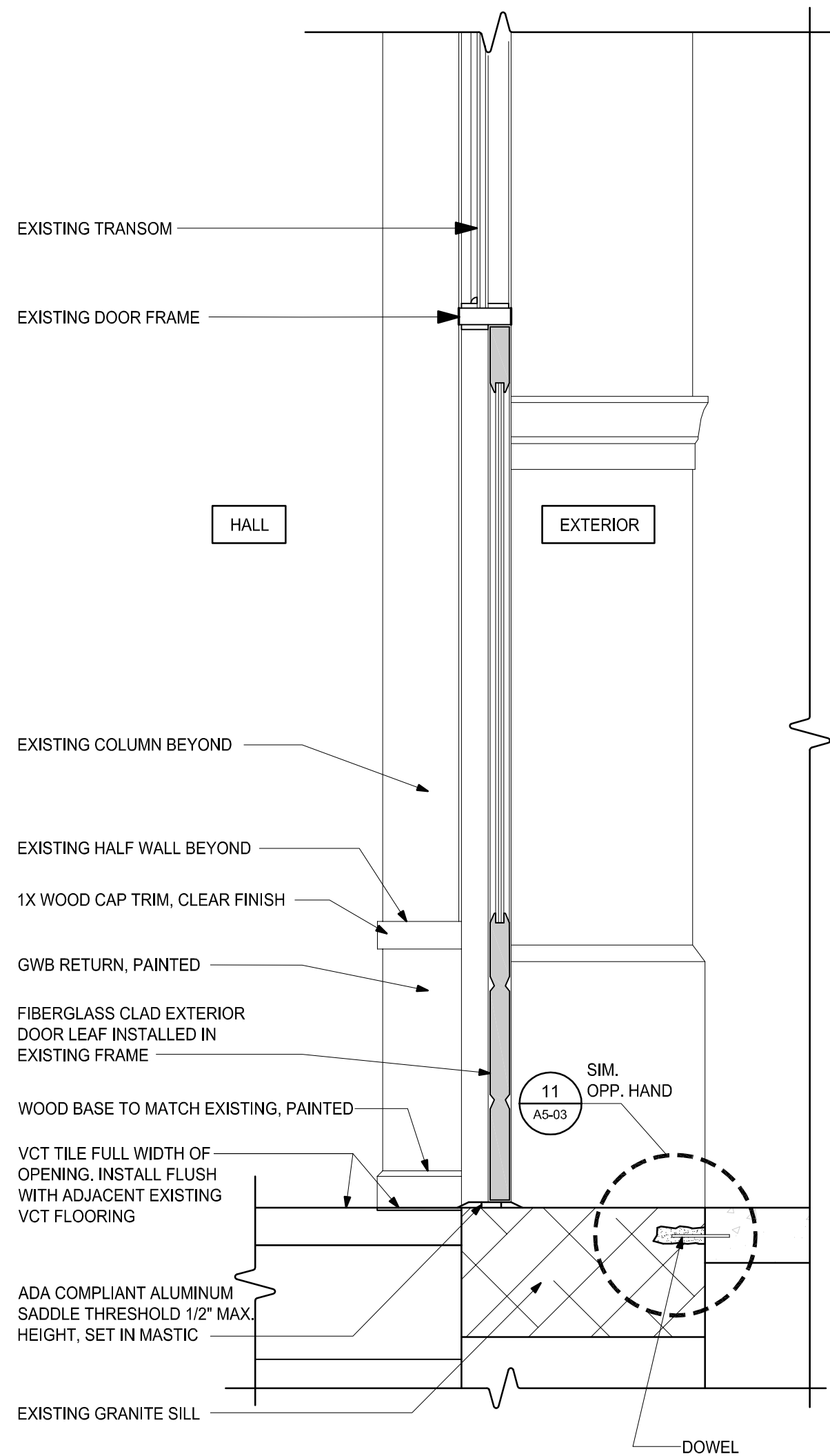
A5-03



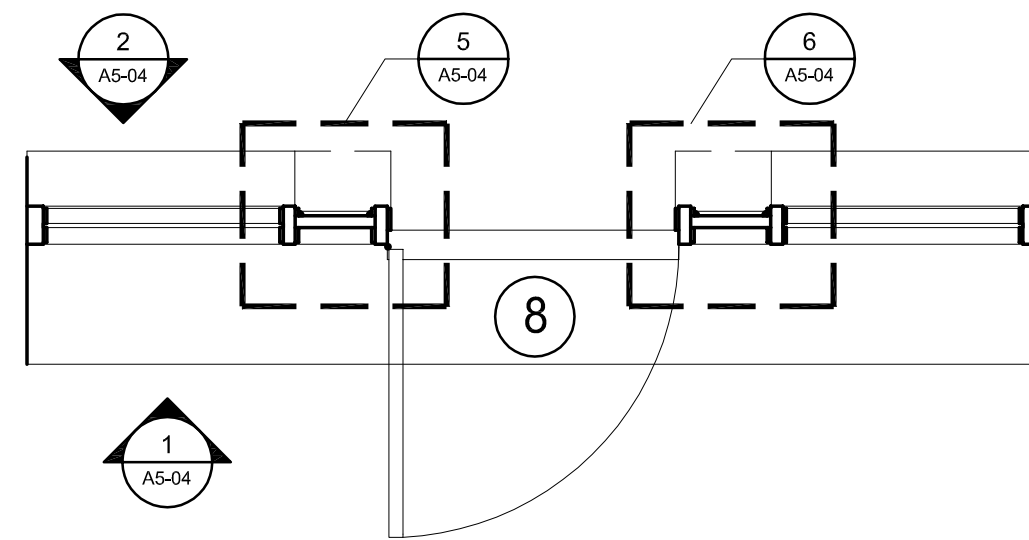
1 ENTRY DOOR EXTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



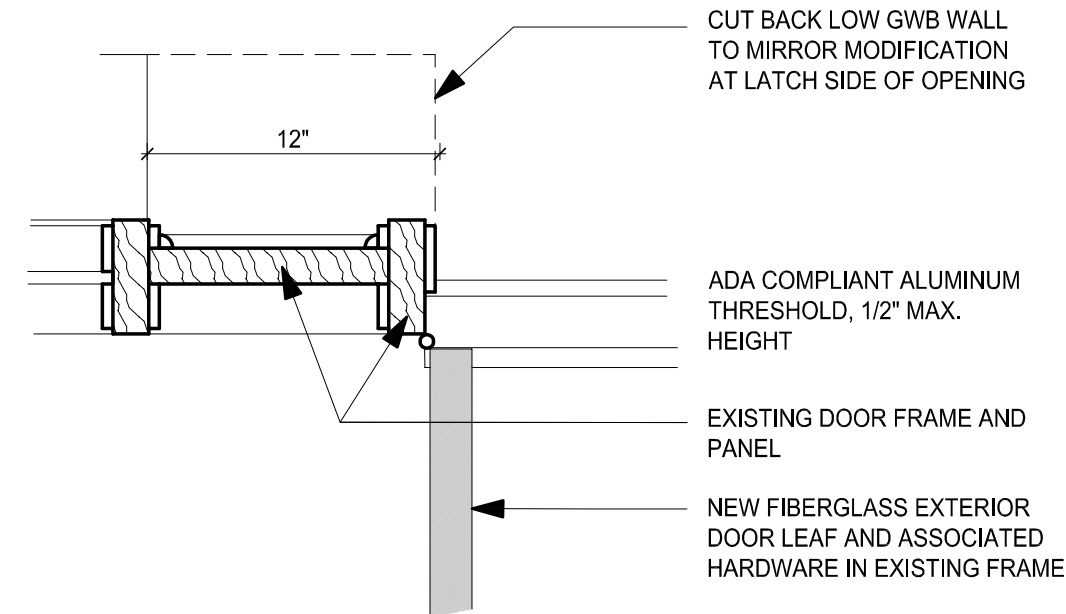
2 ENTRY DOOR INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



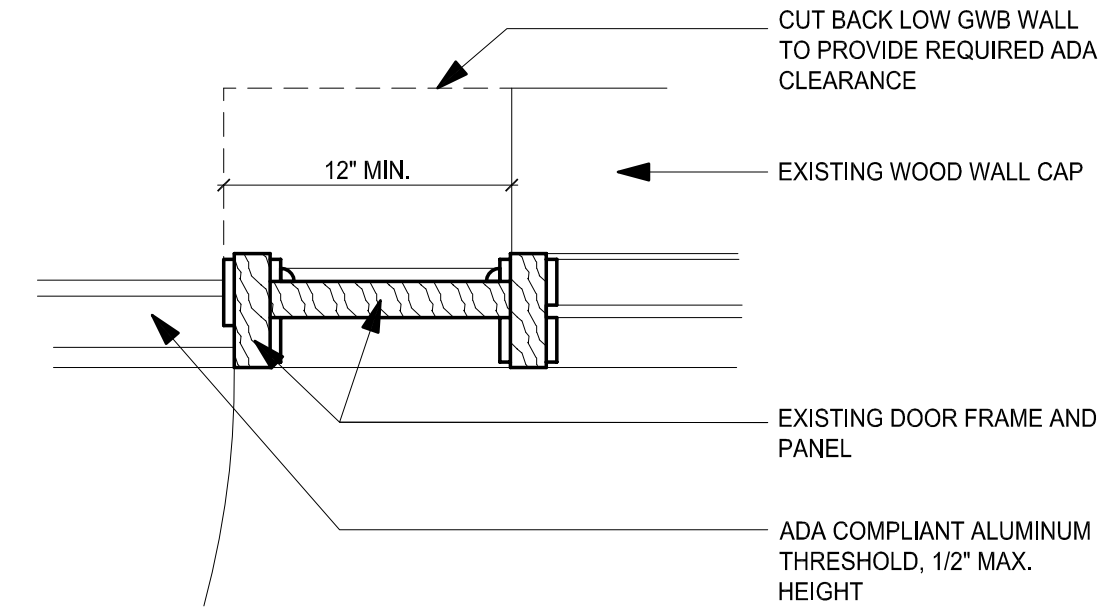
3 SECTION AT ENTRY DOOR
SCALE: 1" = 1'-0"



4 SECTION THROUGH ENTRY DOOR
SCALE: 1/2" = 1'-0"



5 SECTION THROUGH ENTRY DOOR JAMB
SCALE: 1/2" = 1'-0"



6 SECTION THROUGH ENTRY DOOR JAMB
SCALE: 1/2" = 1'-0"

30 YEARS

CBI
CONSULTING INC.

250 DORCHESTER AVENUE
BOSTON, MA 02127

P: (617) 268-8977
F: (617) 464-2971

cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF
SOMERVILLE
CROSS STREET
SENIOR CENTER
RENOVATIONS



CAPITAL PROJECTS AND
PLANNING DEPARTMENT
ONE FRANNEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

FRONT
ENTRY DOOR
ELEVATIONS
AND SECTIONS

Revisions:

Submission:

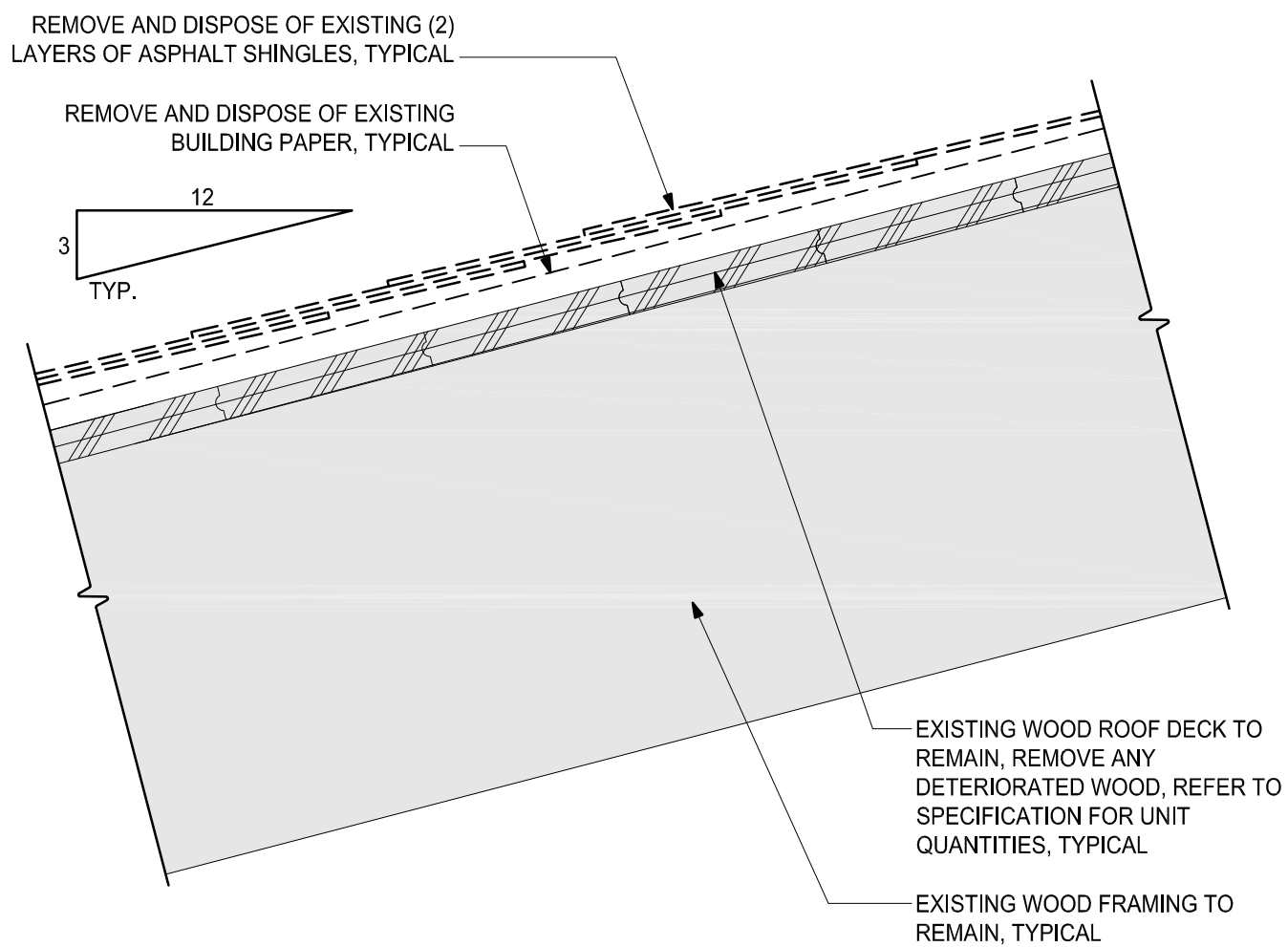
BIDDING
DOCUMENTS

Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: MPS
Scale: AS NOTED

A5-04

NOTE: SOLID GRAY HATCH () REPRESENTS EXISTING CONSTRUCTION, TYPICAL

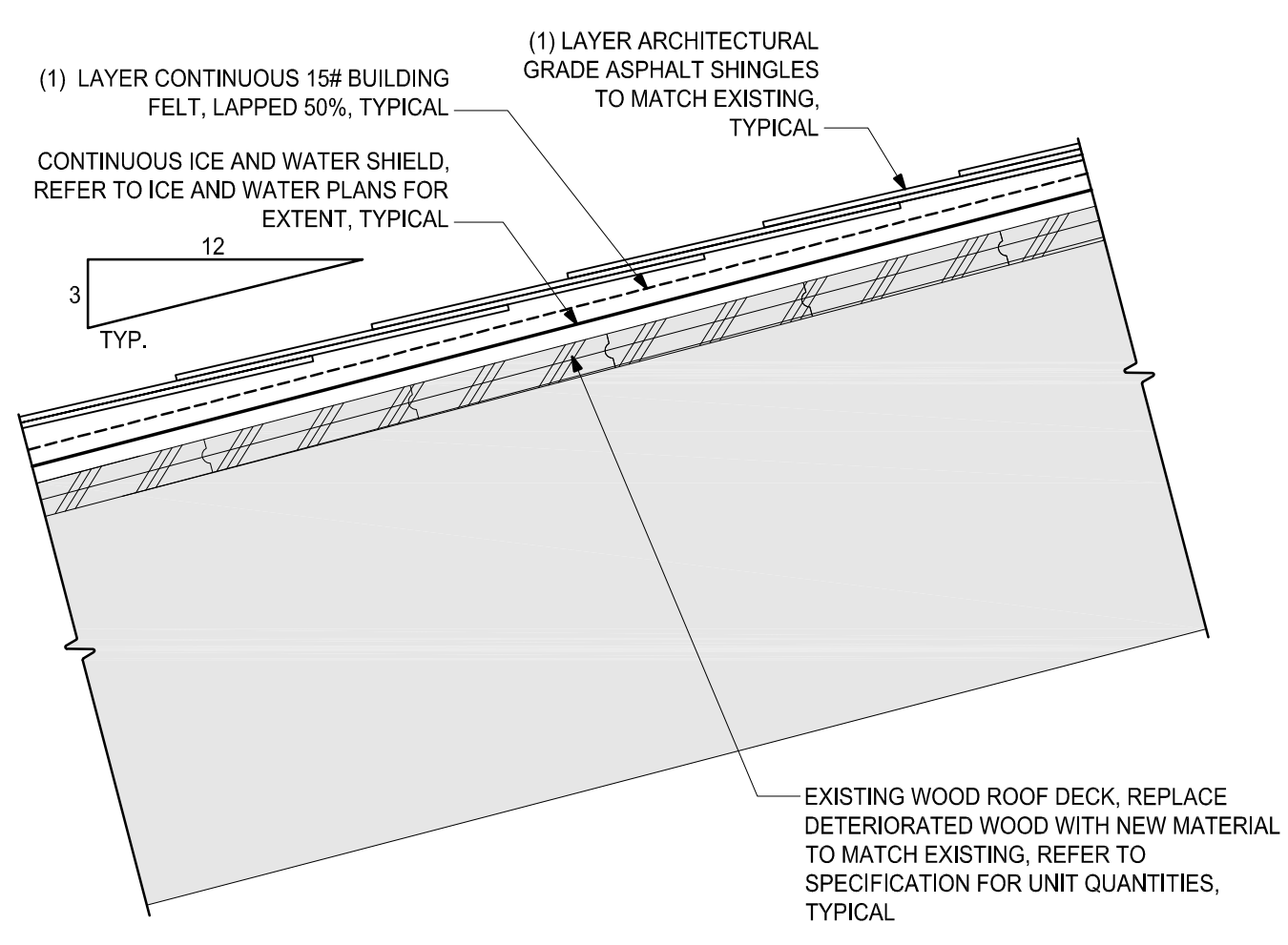
NOTE: ALL DIMENSIONS ARE ± AND ARE TO BE VERIFIED IN THE FIELD.



1 TYPICAL EXISTING ASPHALT SHINGLE ROOFING ASSEMBLY DEMOLITION DETAIL
SCALE: 3/4"=1'-0"

NOTE: SOLID GRAY HATCH () REPRESENTS EXISTING CONSTRUCTION, TYPICAL

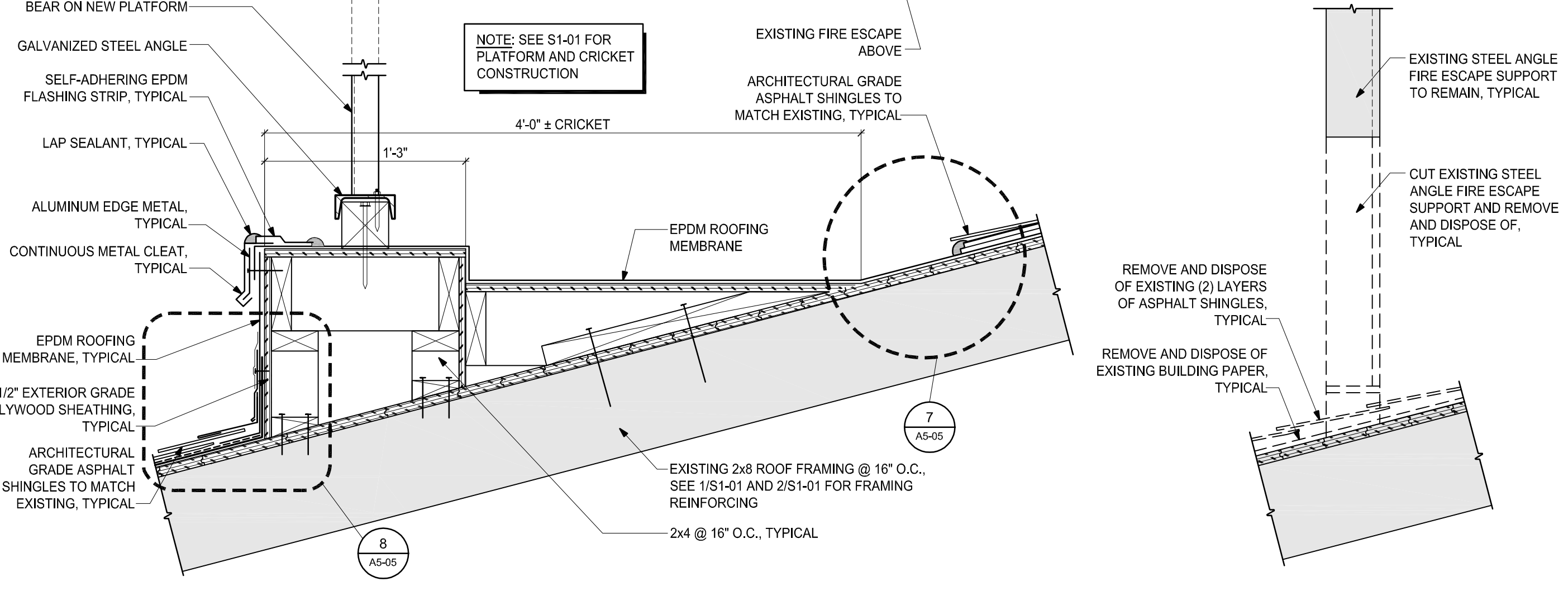
NOTE: ALL DIMENSIONS ARE ± AND ARE TO BE VERIFIED IN THE FIELD.



2 TYPICAL ASPHALT SHINGLE REPLACEMENT ROOF ASSEMBLY DETAIL
SCALE: 3/4"=1'-0"

EXISTING FIRE ESCAPE STEEL ANGLE SUPPORT MODIFIED TO BEAR ON NEW PLATFORM

NOTE: SEE S1-01 FOR PLATFORM AND CRICKET CONSTRUCTION

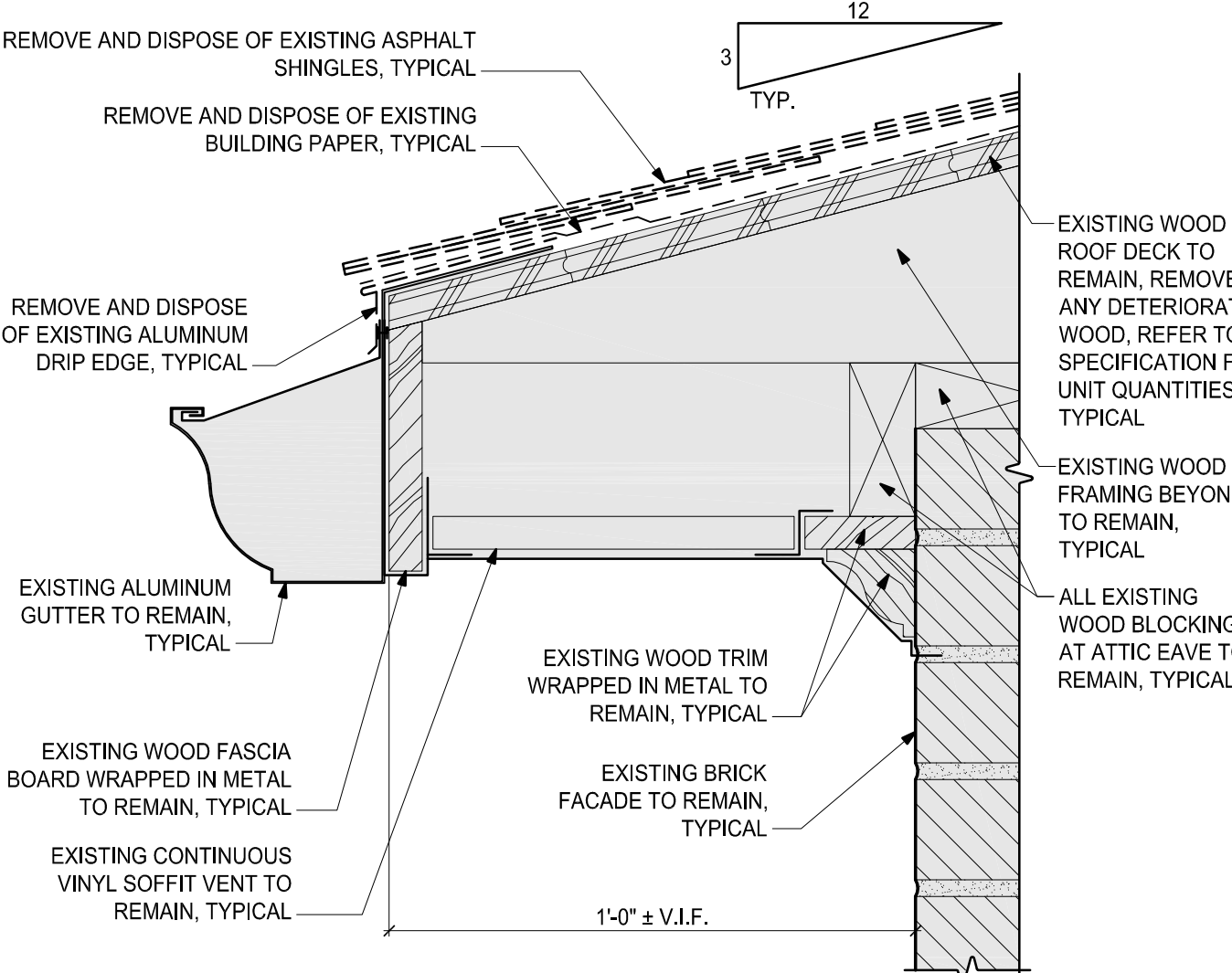


3 SECTION THROUGH PLATFORM AND CRICKET
SCALE: 1'-1/2"=1'-0"

3A TYPICAL FIRE ESCAPE METAL SUPPORT DEMOLITION
SCALE: 1'-1/2"=1'-0"

NOTE: SOLID GRAY HATCH () REPRESENTS EXISTING CONSTRUCTION, TYPICAL

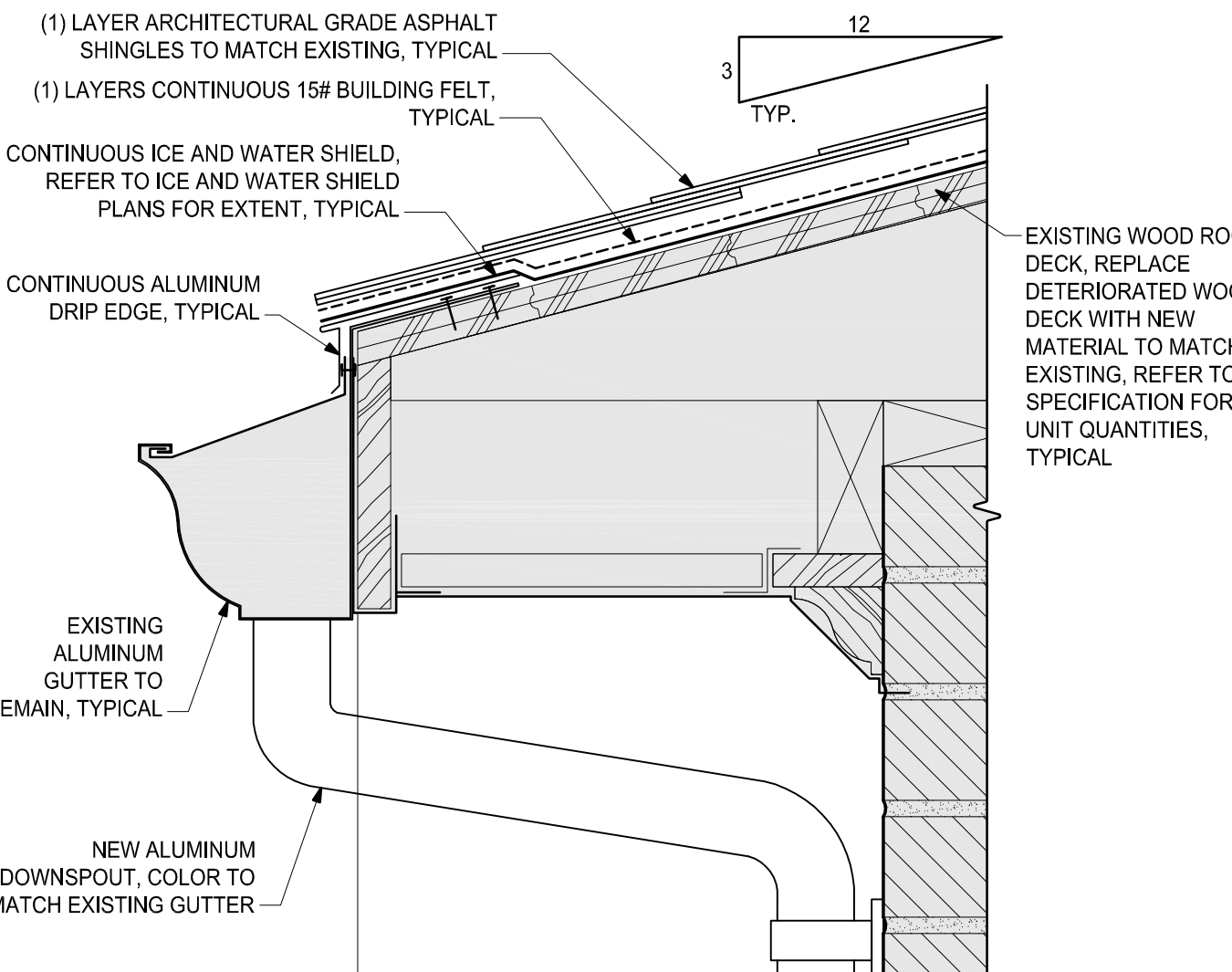
NOTE: ALL DIMENSIONS ARE ± AND ARE TO BE VERIFIED IN THE FIELD.



4 TYPICAL EDGE DEMOLITION DETAIL AT EAVE
SCALE: 3/4"=1'-0"

NOTE: SOLID GRAY HATCH () REPRESENTS EXISTING CONSTRUCTION, TYPICAL

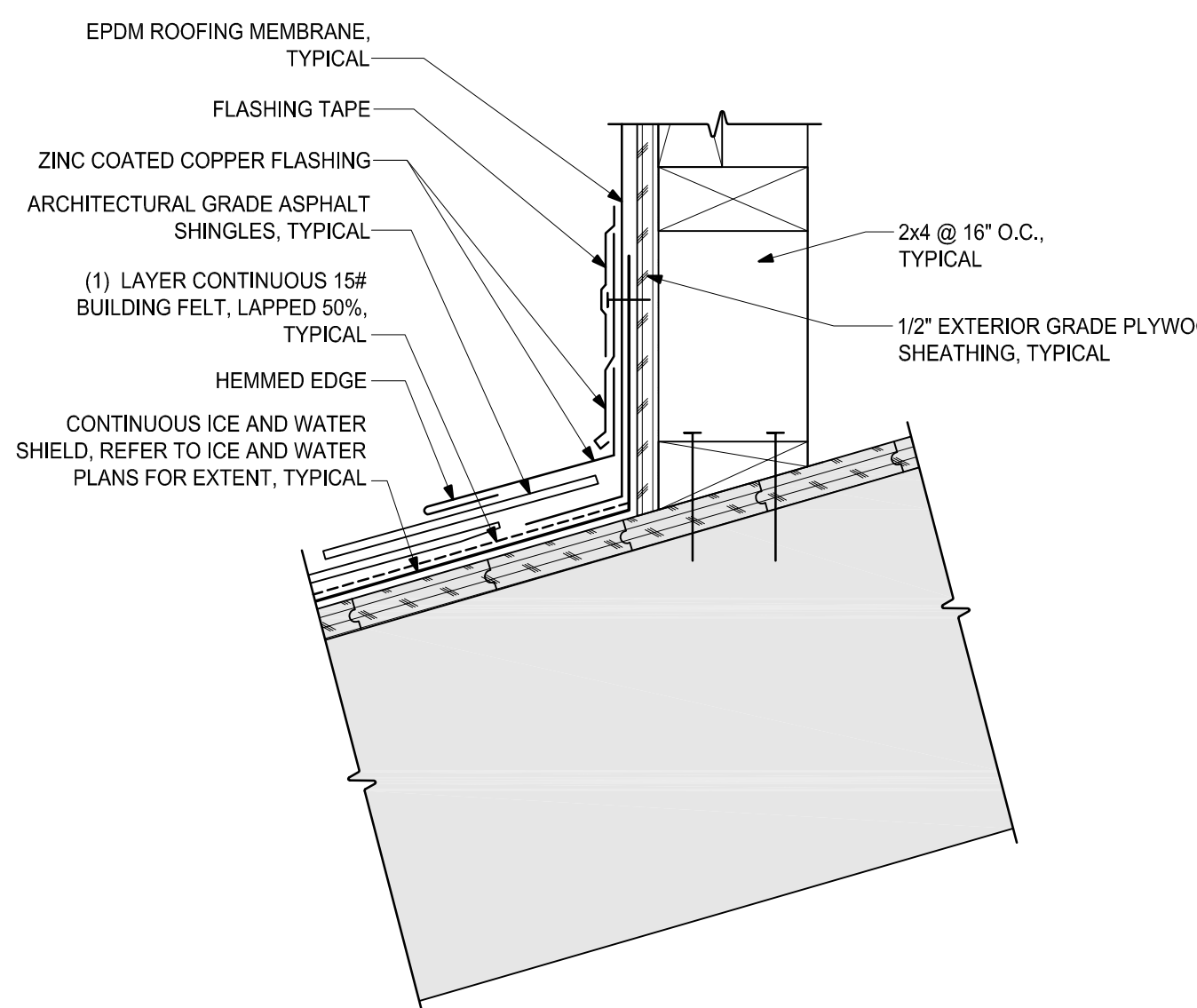
NOTE: ALL DIMENSIONS ARE ± AND ARE TO BE VERIFIED IN THE FIELD.



5 TYPICAL EDGE DETAIL AT EAVE
SCALE: 3/4"=1'-0"

NOTE: SOLID GRAY HATCH () REPRESENTS EXISTING CONSTRUCTION, TYPICAL

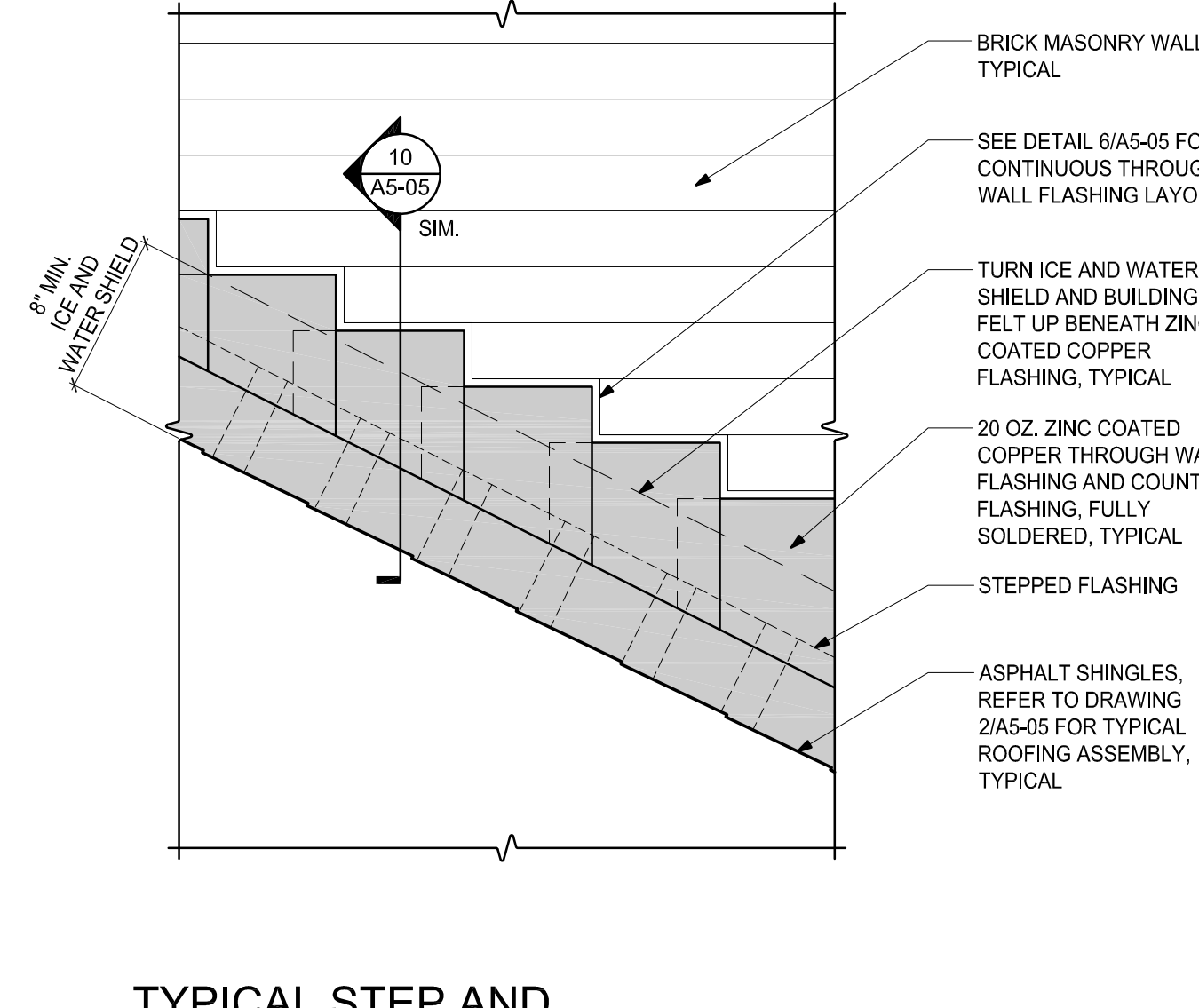
NOTE: ALL DIMENSIONS ARE ± AND ARE TO BE VERIFIED IN THE FIELD.



8 TYPICAL PLATFORM BASE DETAIL
SCALE: 3/4"=1'-0"

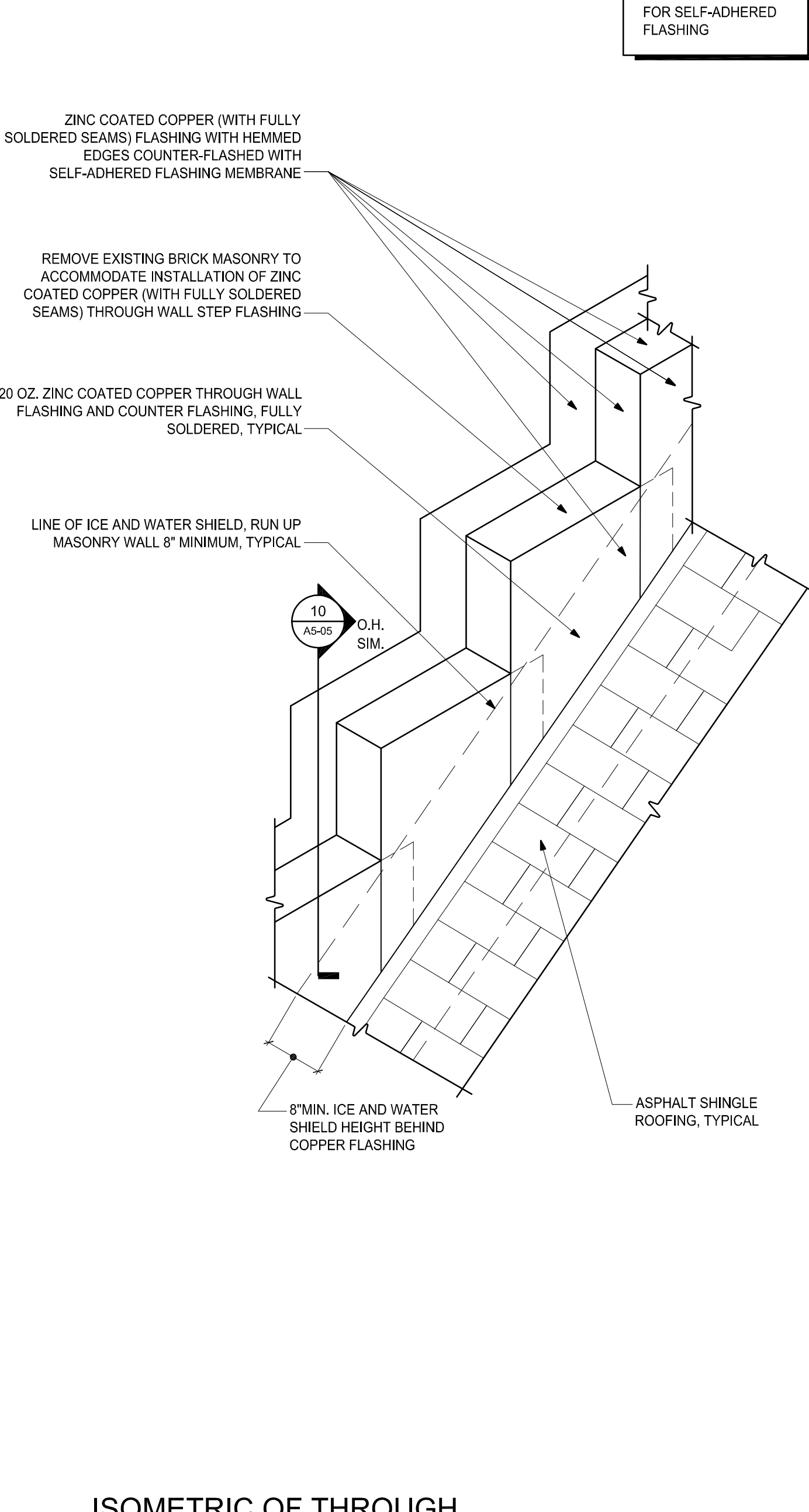
NOTE: SOLID GRAY HATCH () REPRESENTS EXISTING CONSTRUCTION, TYPICAL

NOTE: ALL DIMENSIONS ARE ± AND ARE TO BE VERIFIED IN THE FIELD.

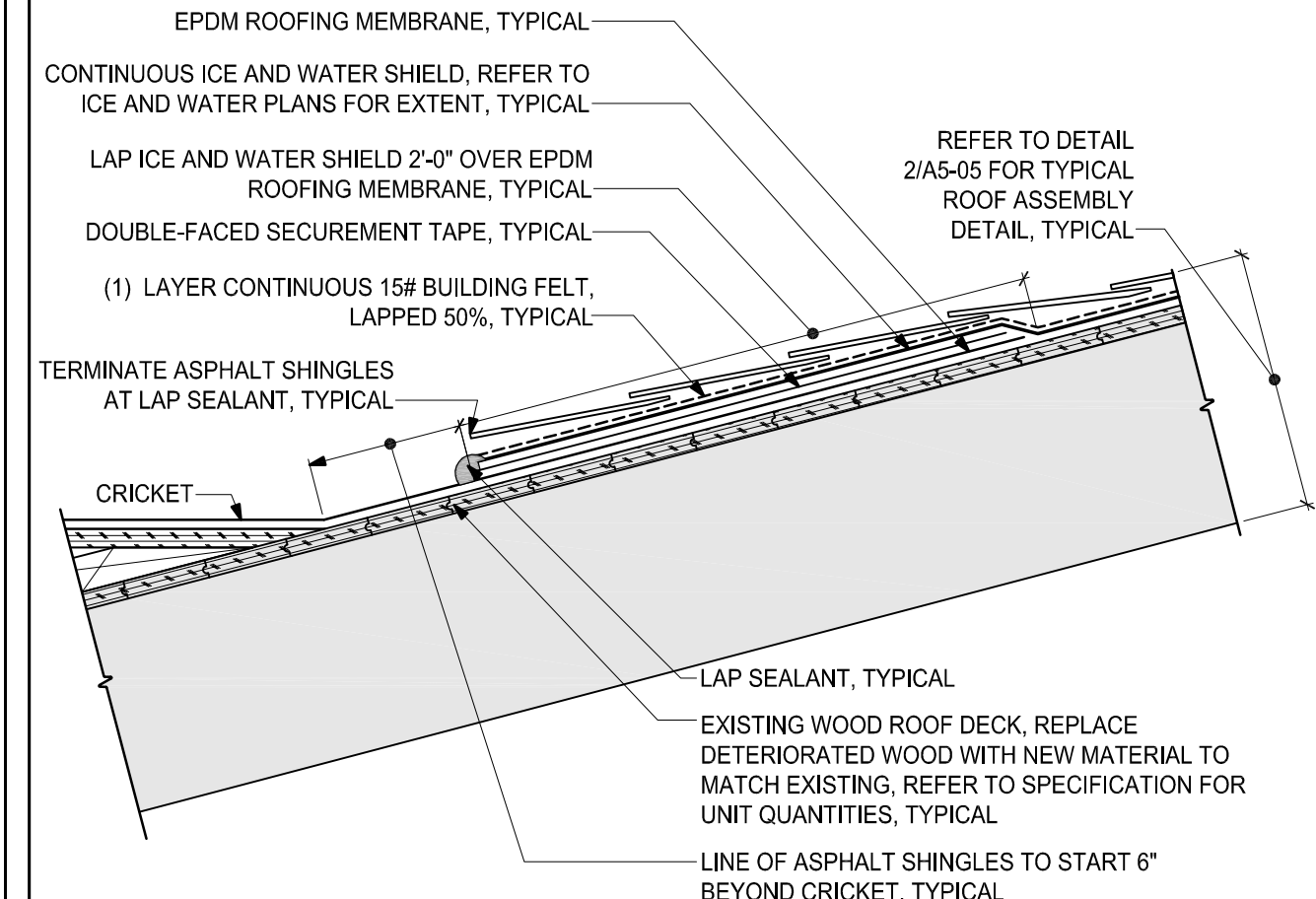


9 TYPICAL STEP AND THROUGH WALL FLASHING AT MASONRY WALL
SCALE: 1'-1/2"=1'-0"

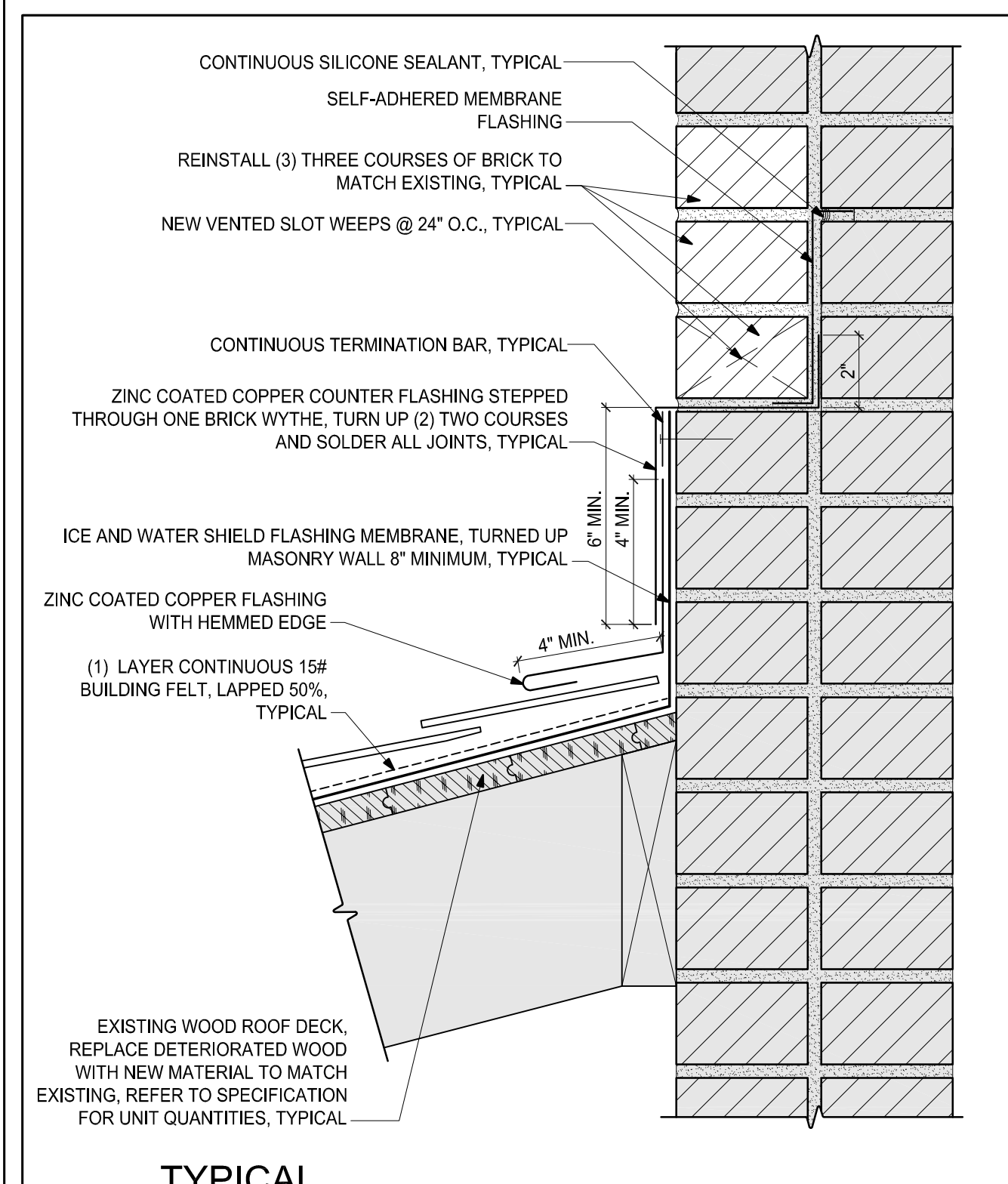
NOTE: SEE DETAIL 10/A5-05 FOR SELF-ADHERED FLASHING



6 ISOMETRIC OF THROUGH WALL COUNTER FLASHING
SCALE: N.T.S.



7 TYPICAL ROOF A DETAIL AT ICE AND WATER AND EPDM LAPPING
SCALE: 1'-1/2"=1'-0"



10 TYPICAL THROUGH-WALL FLASHING DETAIL
SCALE: 3/4"=1'-0"

30 YEARS

CBI CONSULTING INC.

250 DORCHESTER AVENUE
BOSTON, MA 02127
P: (617) 268-8977
F: (617) 464-2971
cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF
SOMERVILLE
CROSS STREET
SENIOR CENTER
RENOVATIONS



CAPITAL PROJECTS AND
PLANNING DEPARTMENT
ONE FRANEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

FOOD PANTRY
ROOF DETAILS
AND SECTIONS

Revisions:

Submission:

BIDDING
DOCUMENTS

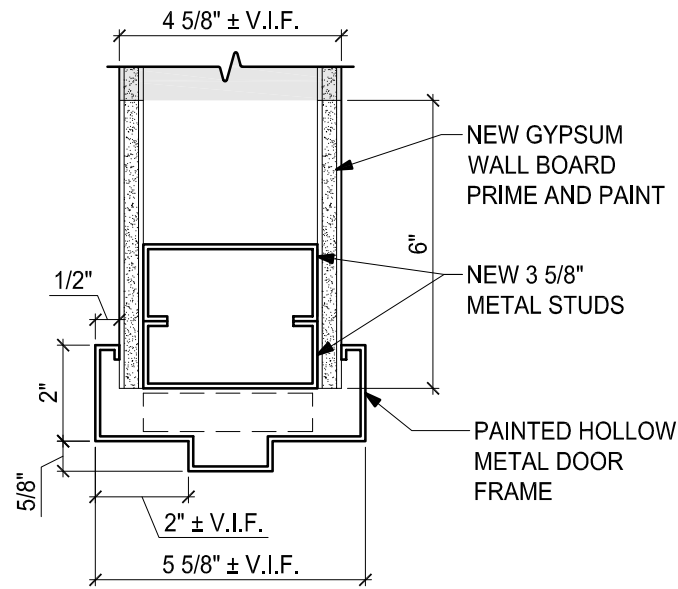
Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: EAD
Scale: AS NOTED

A5-05

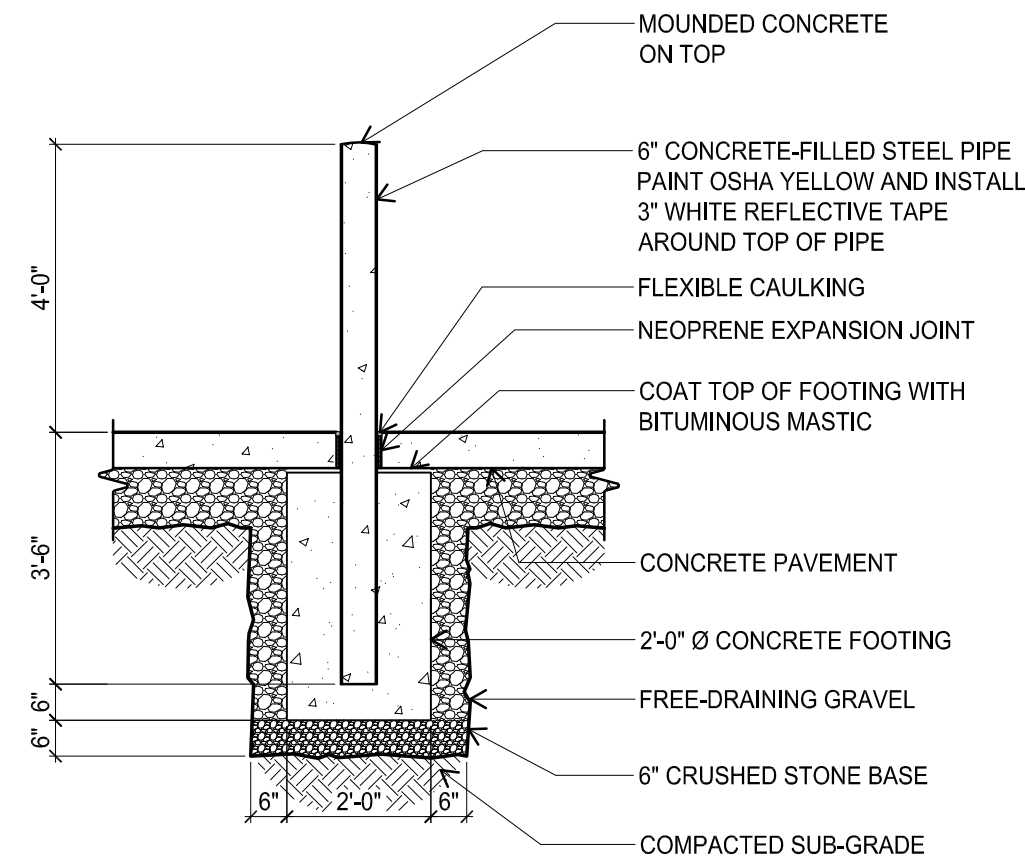
Finish Schedule									
Room No.	Room Name	Floor	Base	Finish	Walls	Finish	Ceiling	Finish	Remarks
101	FOOD PANTRY	EXISTING CONCRETE	WOOD	PAINT	GYPSUM/ EXISTING MASONRY	PAINT	GYPSUM	PAINT	
102	FOOD PANTRY	EXISTING CONCRETE	WOOD	PAINT	GYPSUM/ EXISTING MASONRY	PAINT	GYPSUM	PAINT	
103	HALL	V.C.T.	WOOD	PAINT	EXISTING	PAINT	EXISTING	PAINT	
104	STORAGE	EXISTING	MATCH EXISTING	PAINT	NEW/GYPSUM	PAINT	EXISTING	---	PATCH, PRIME, AND PAINT NEW WALL AT EXISTING DOOR
105	HALL	EXISTING	EXISTING	---	EXISTING	SEE REMARK	EXISTING	---	PATCH, PRIME, AND PAINT WALL WITH NEW DOOR.
106	MEN	C.T.	C.T.	PAINT			EXISTING	PAINT	ADD ALT. #001
107	WOMEN	C.T.	C.T.	PAINT			EXISTING	PAINT	
108	VESTIBULE	EXISTING V.C.T.	WOOD	PAINT	GYPSUM NEW AND EXISTING		EXISTING	---	NEW V.C.T. AS SHOWN ON DRAWINGS; ADD ALT. #001
109	VESTIBULE	EXISTING V.C.T.	WOOD	PAINT	GYPSUM NEW AND EXISTING		EXISTING	---	NEW V.C.T. AS SHOWN ON DRAWINGS

1 FINISH SCHEDULE
SCALE: 1/4" = 1'-0"

NOTE: SOLID GRAY HATCH () REPRESENTS EXISTING CONSTRUCTION, TYPICAL

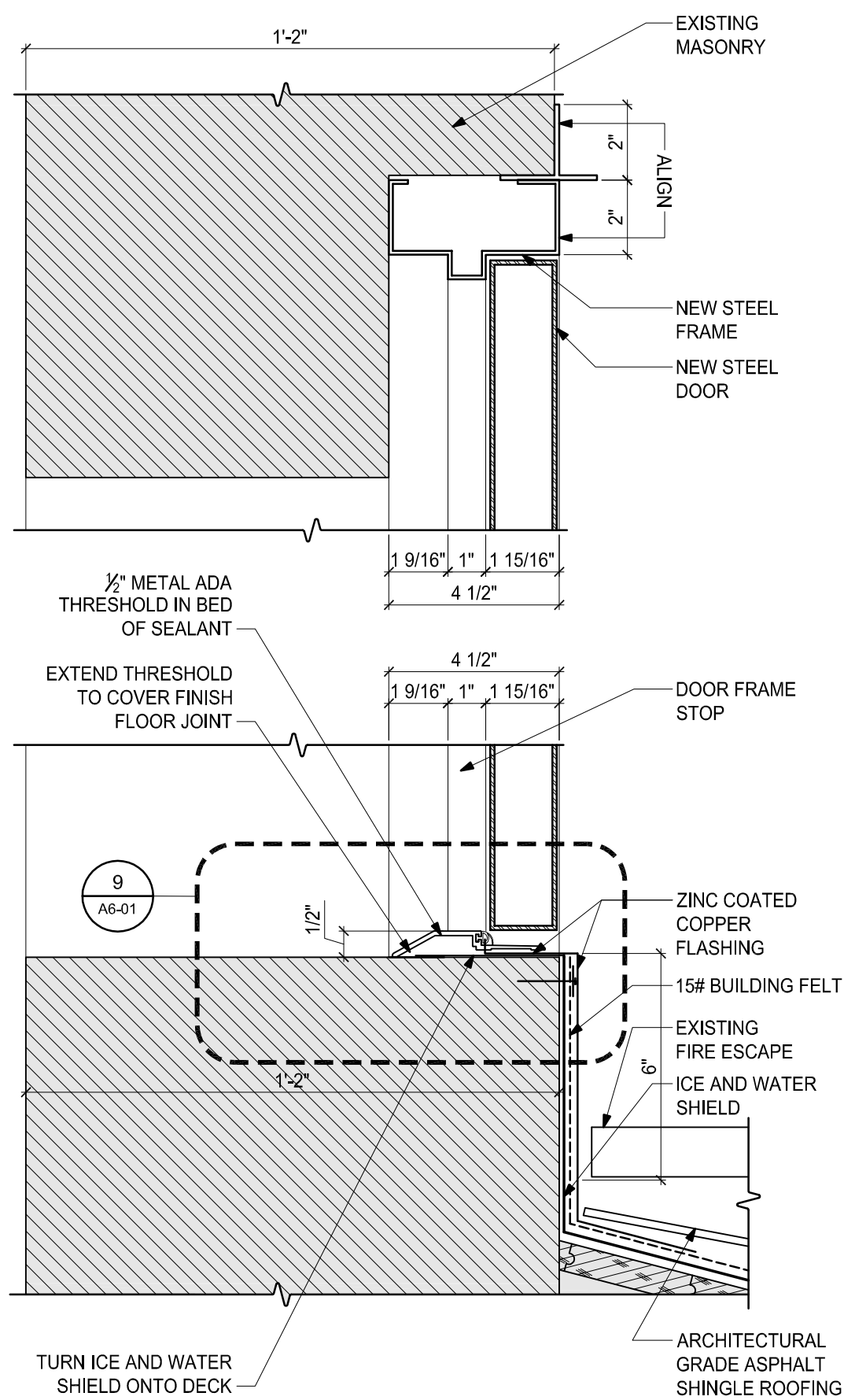


3 TYPICAL C LABEL JAMB/HEAD 1 HR.
SCALE: 3/8" = 1'-0"

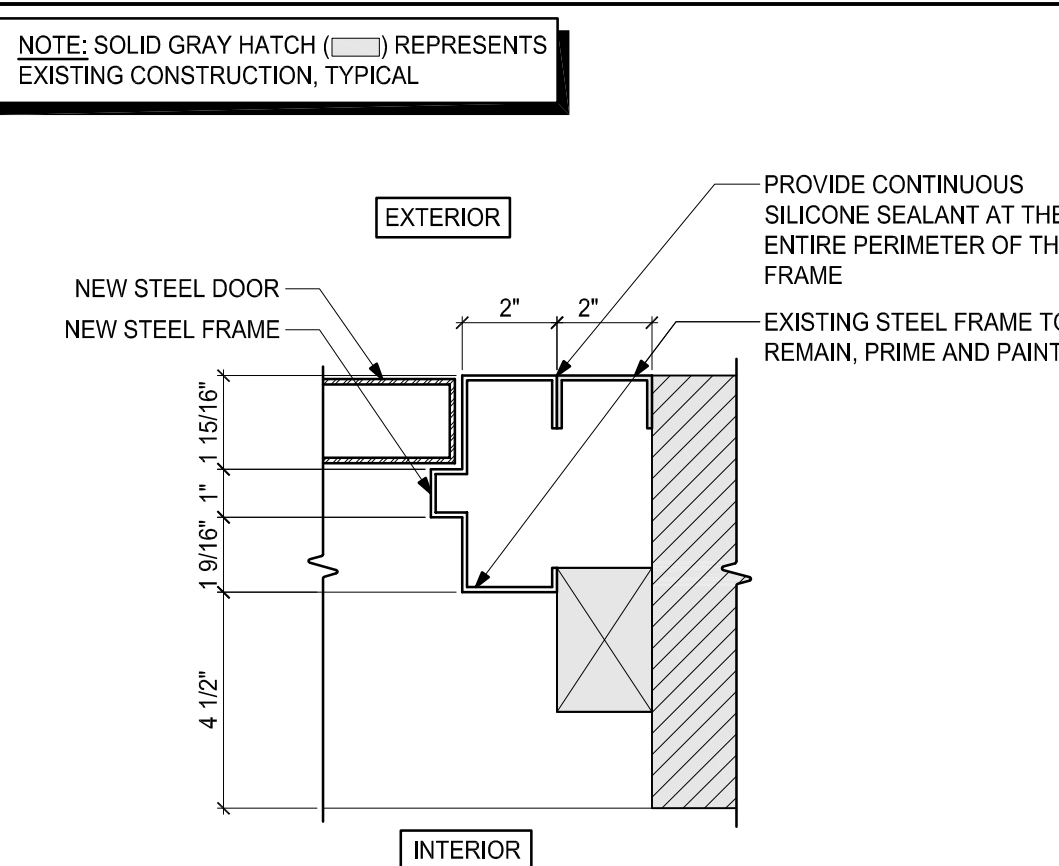
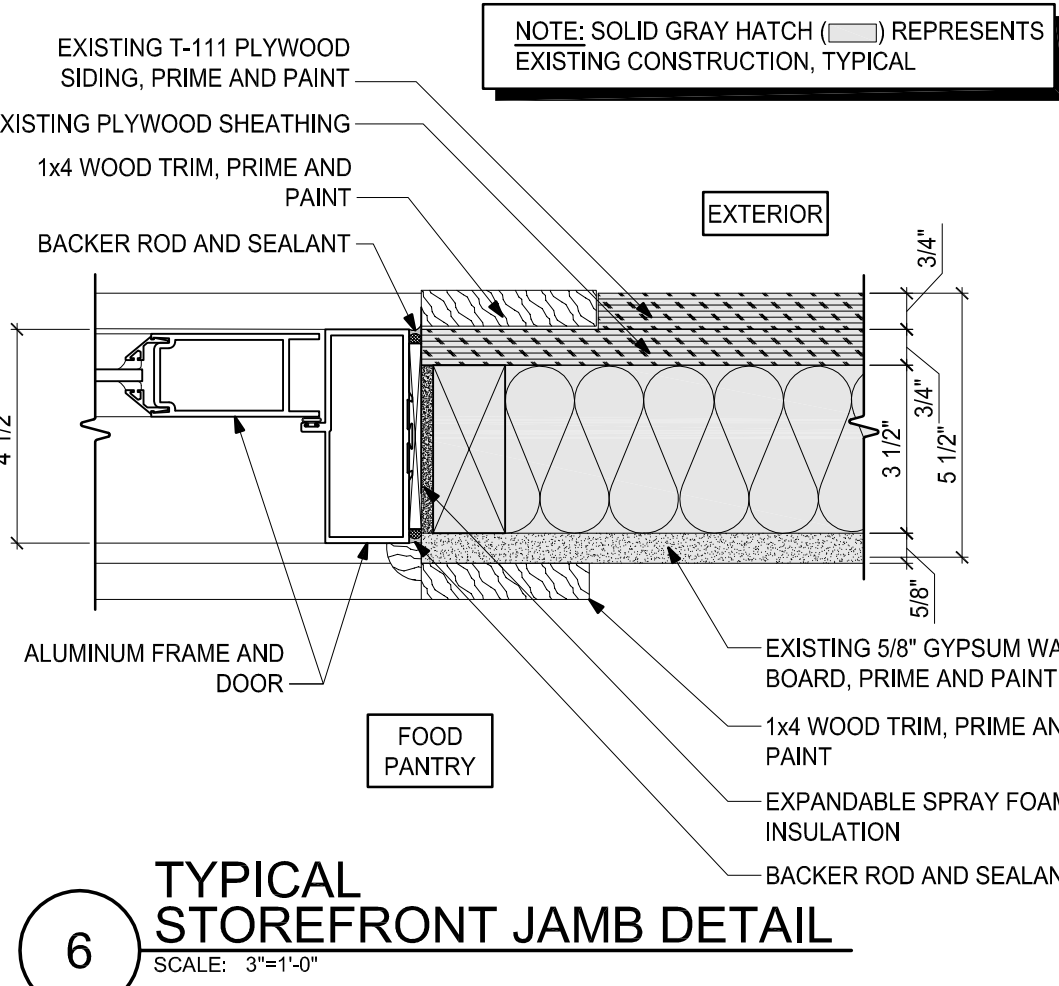


4 TYPICAL BOLLARD DETAIL
SCALE: 3/8" = 1'-0"

NOTE: SOLID GRAY HATCH () REPRESENTS EXISTING CONSTRUCTION, TYPICAL

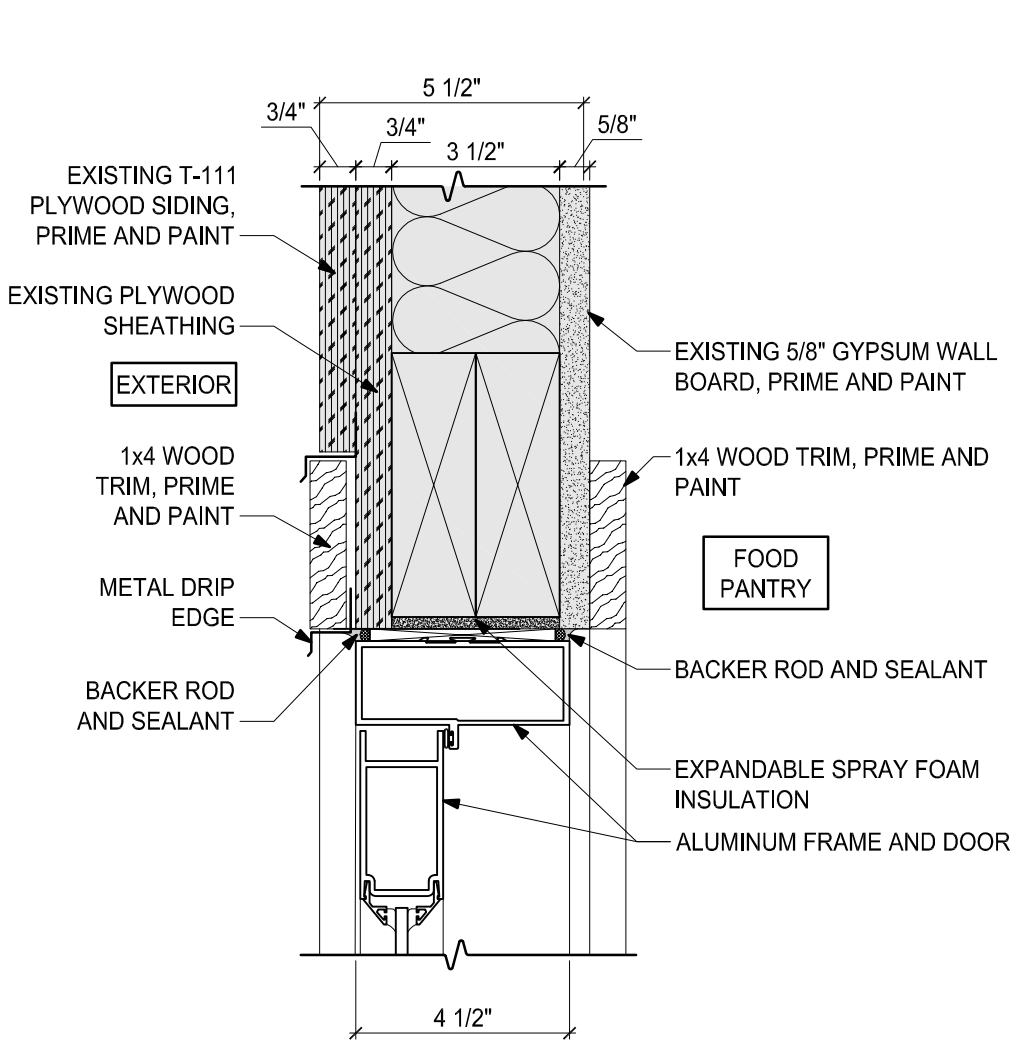


5 FIRE ESCAPE DOOR HEAD / SILL DETAIL
SCALE: 3/8" = 1'-0"



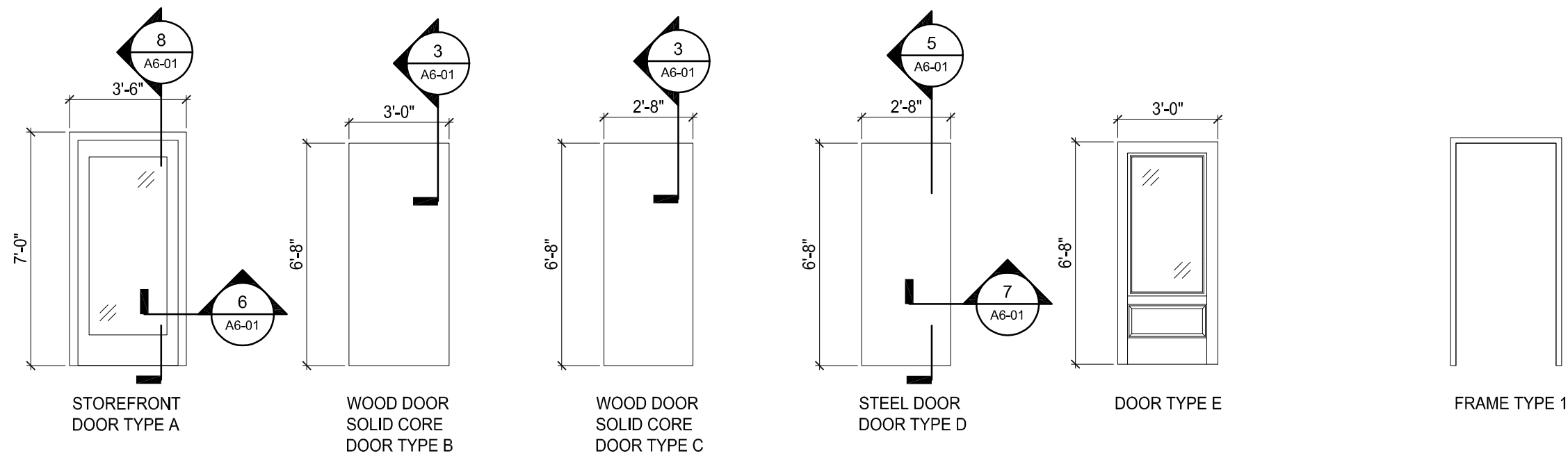
7 DOOR JAMB AT FIRE ESCAPE
SCALE: 3/8" = 1'-0"

NOTE: SOLID GRAY HATCH () REPRESENTS EXISTING CONSTRUCTION, TYPICAL



8 TYPICAL STOREFRONT HEAD / SILL DETAIL
SCALE: 3/8" = 1'-0"

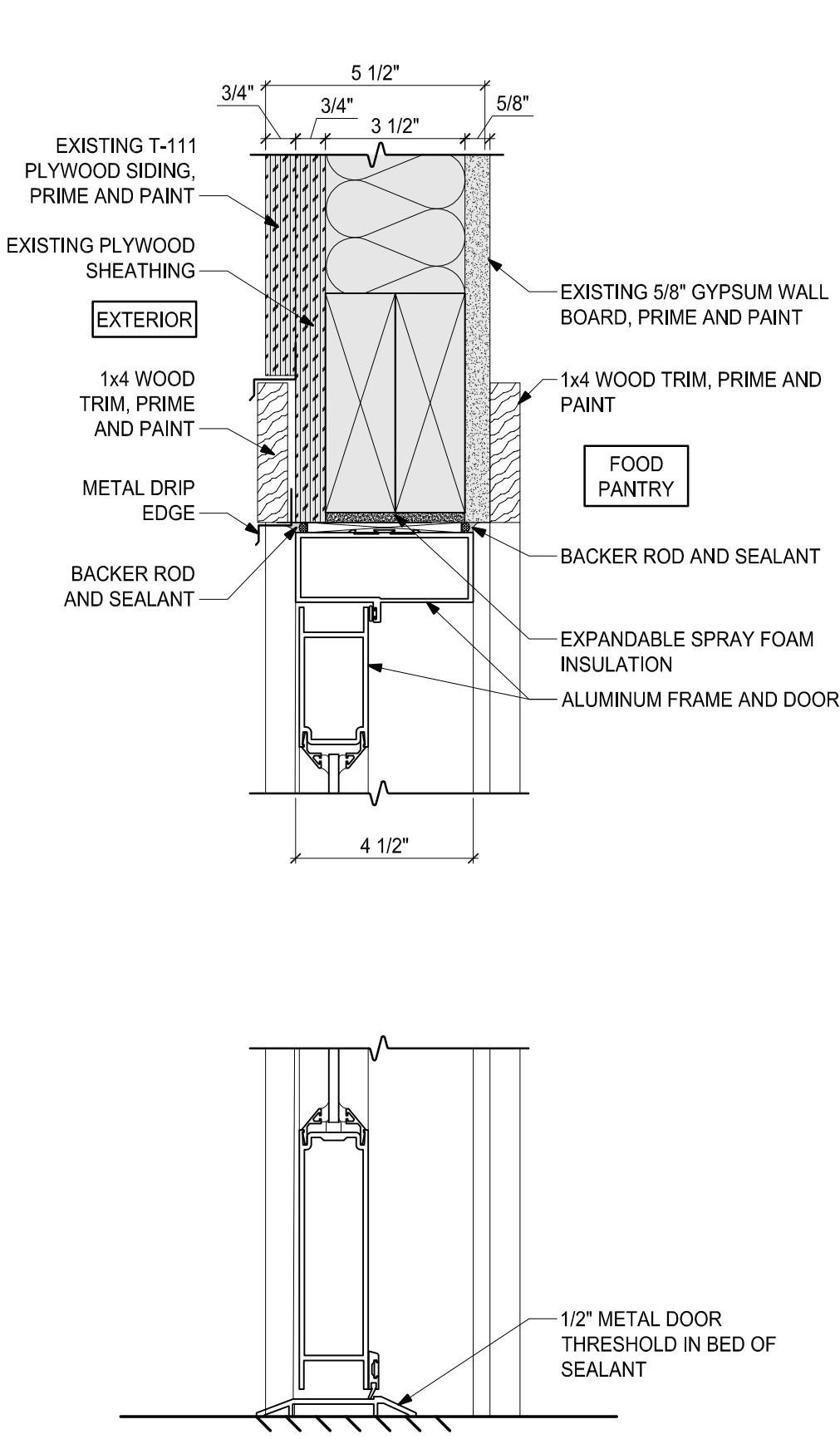
Door Schedule															
DOOR #	DOOR					FRAME									
	ROOM	SIZE	THICKNESS	TYPE	MATERIAL	DOOR FINISH	SIZE	TYPE	MATERIAL	FRAME FINISH	CLOSER	UNDERCUT	THRESHOLD	VISION PANEL	WEATHER STRIPPING
1	EXTERIOR	3'-6" x 6'-8"	A	ALUMINUM	BRONZE	---	---	---	ALUMINUM	---	Y	N	Y	N	Y
2	FOOD PANTRY	3'-0" x 6'-8"	B	WOOD	PAINT	---	---	1	WOOD	PAINT	Y	N	---	N	N
3	FOOD PANTRY	EXISTING	---	---	---	---	---	---	---	---	---	---	---	---	---
4	HALL	2'-8" x 6'-8"	C	WOOD	PAINT	---	---	1	WOOD	PAINT	N	N	---	N	N
5	2ND FLOOR	2'-8" x 6'-8"	D	STEEL	PAINT	---	---	---	---	---	Y	N	Y	N	N
6	WOMEN	3'-0" x 6'-8"	B	WOOD	PAINT	---	---	1	WOOD	PAINT	Y	Y	Y	N	N
7	MEN	3'-0" x 6'-8"	B	WOOD	PAINT	---	---	1	WOOD	PAINT	Y	Y	Y	N	N
8	FOYER	3'-0" x 6'-8"	E	FIBERGLASS	FACTORY	EXISTING	---	1	EXISTING	---	Y	N	Y	---	Y



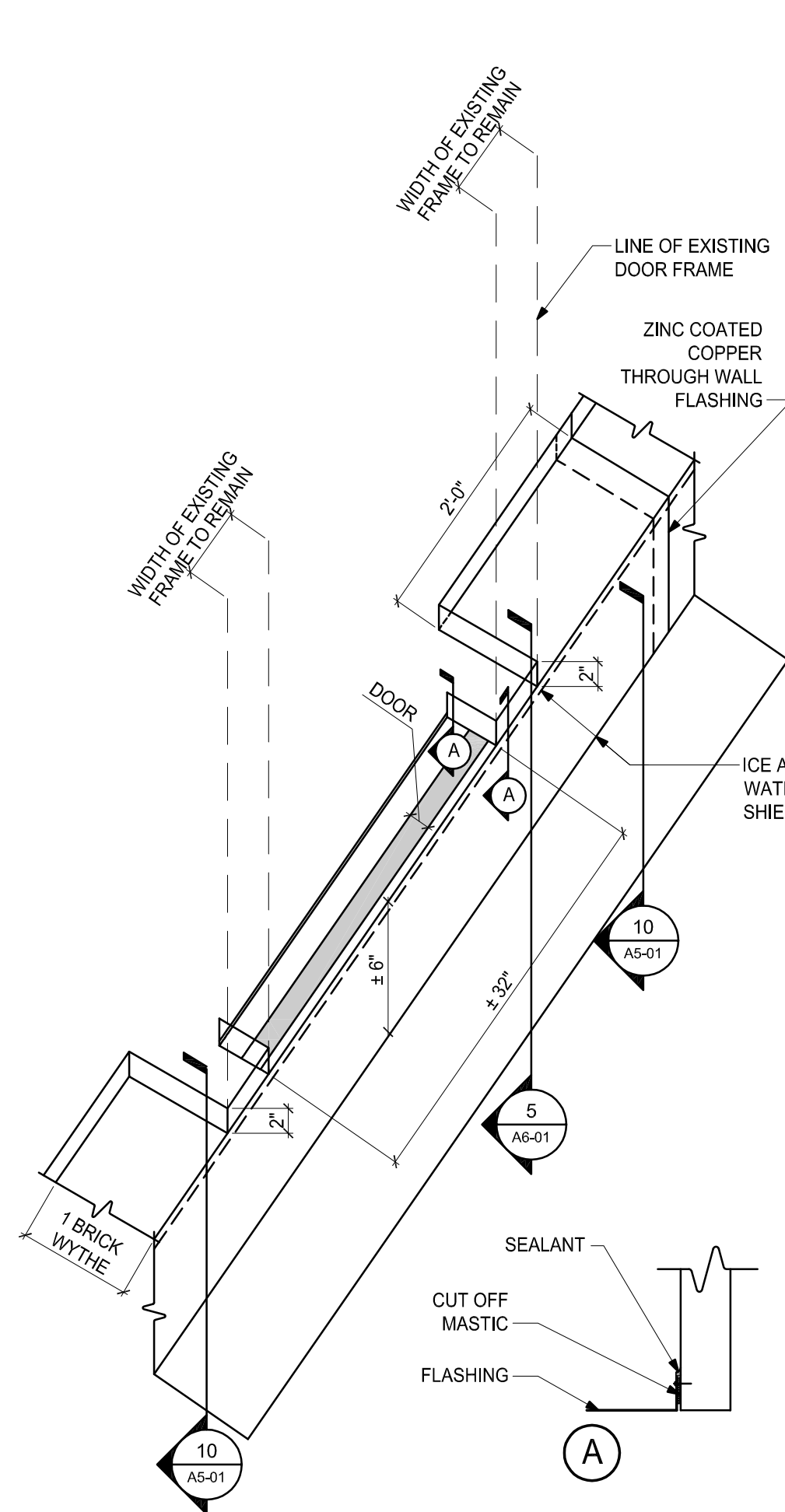
Hardware Sets				
SET #1	SET #2	SET #3	SET #4	SET #5
STOREFRONT DOOR FOOD PANTRY	FOOD PANTRY INTERIOR ENTRY	STORAGE	FIRE ESCAPE	RESTROOMS
PADDLE HANDLE DEAD BOLT	LEVER HANDLE LOOK FROM HALL SIDE KICK PLATE 12" (BOTH SIDES) CLOSER WEATHER STRIPPING	LEVER HANDLE LOOK FROM HALL SIDE	SURFACE MOUNTED VERTICAL ROD DEVICE STRIKES KEYED LEVER THROUGH BOLTS	PUSH/PULL/KICK MORTISE OCCUPIED/ VACANT BOLT WITH LATCH RELEASE CLOSER

2 DOOR SCHEDULE
SCALE: 1/4" = 1'-0"

NOTE: SOLID GRAY HATCH () REPRESENTS EXISTING CONSTRUCTION, TYPICAL



9 FIRE ESCAPE DOOR FLASHING
SCALE: N.T.S.



10 SECTION THROUGH CRICKET
SCALE: 3/8" = 1'-0"

30 YEARS

CBI CONSULTING INC.

250 DORCHESTER AVENUE
BOSTON, MA 02127
P: (617) 268-8977
F: (617) 464-2971
cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF
SOMERVILLE
CROSS STREET
SENIOR CENTER
RENOVATIONS



CAPITAL PROJECTS AND
PLANNING DEPARTMENT
ONE FRANCY ROAD
SOMERVILLE, MA 02145

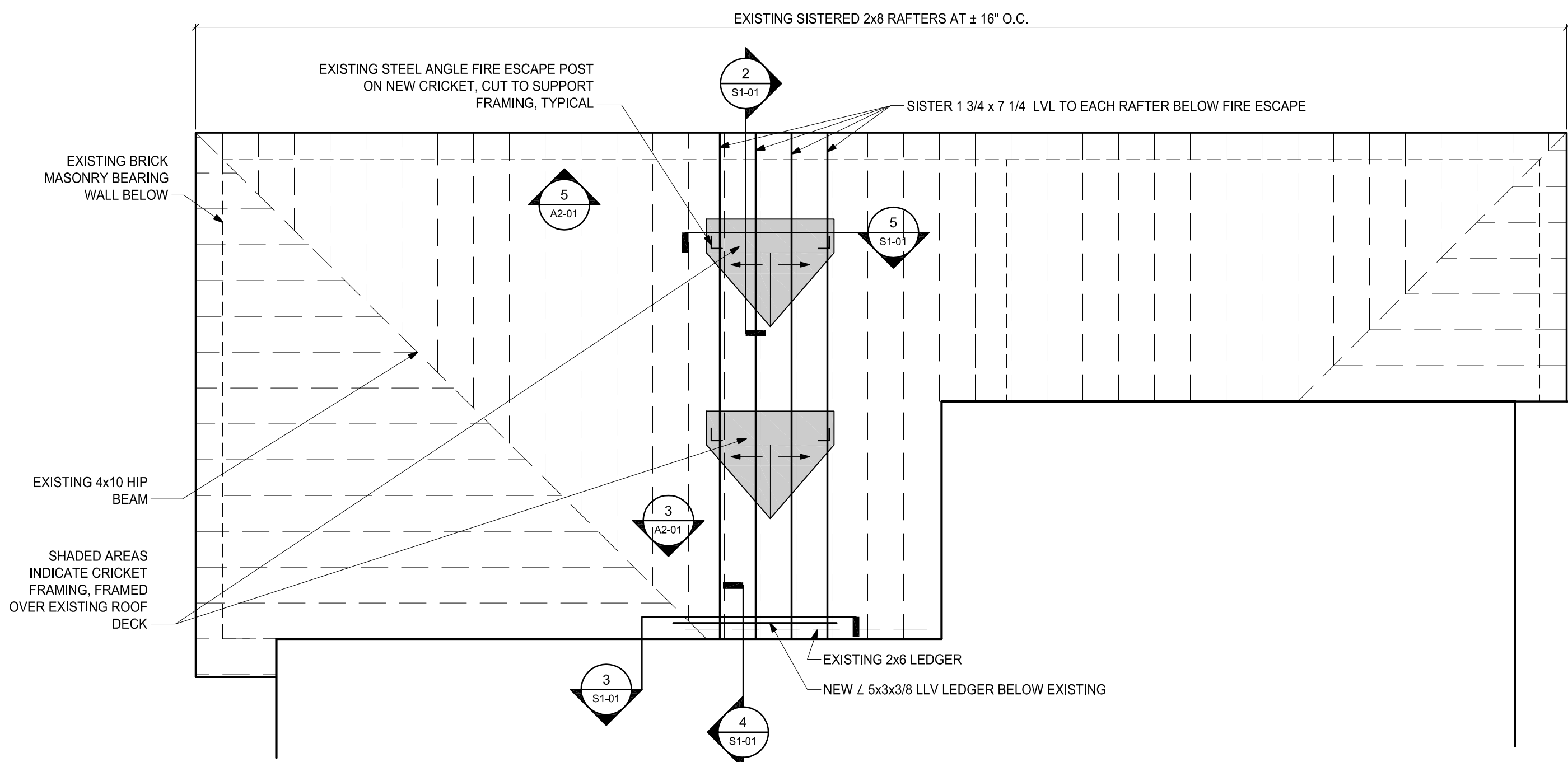
Drawing Title:
FOOD PANTRY/
RESTROOMS
FINISH SCHEDULE,
DOOR SCHEDULE,
DOOR DETAILS
AND ROOF DETAILS

Revisions:

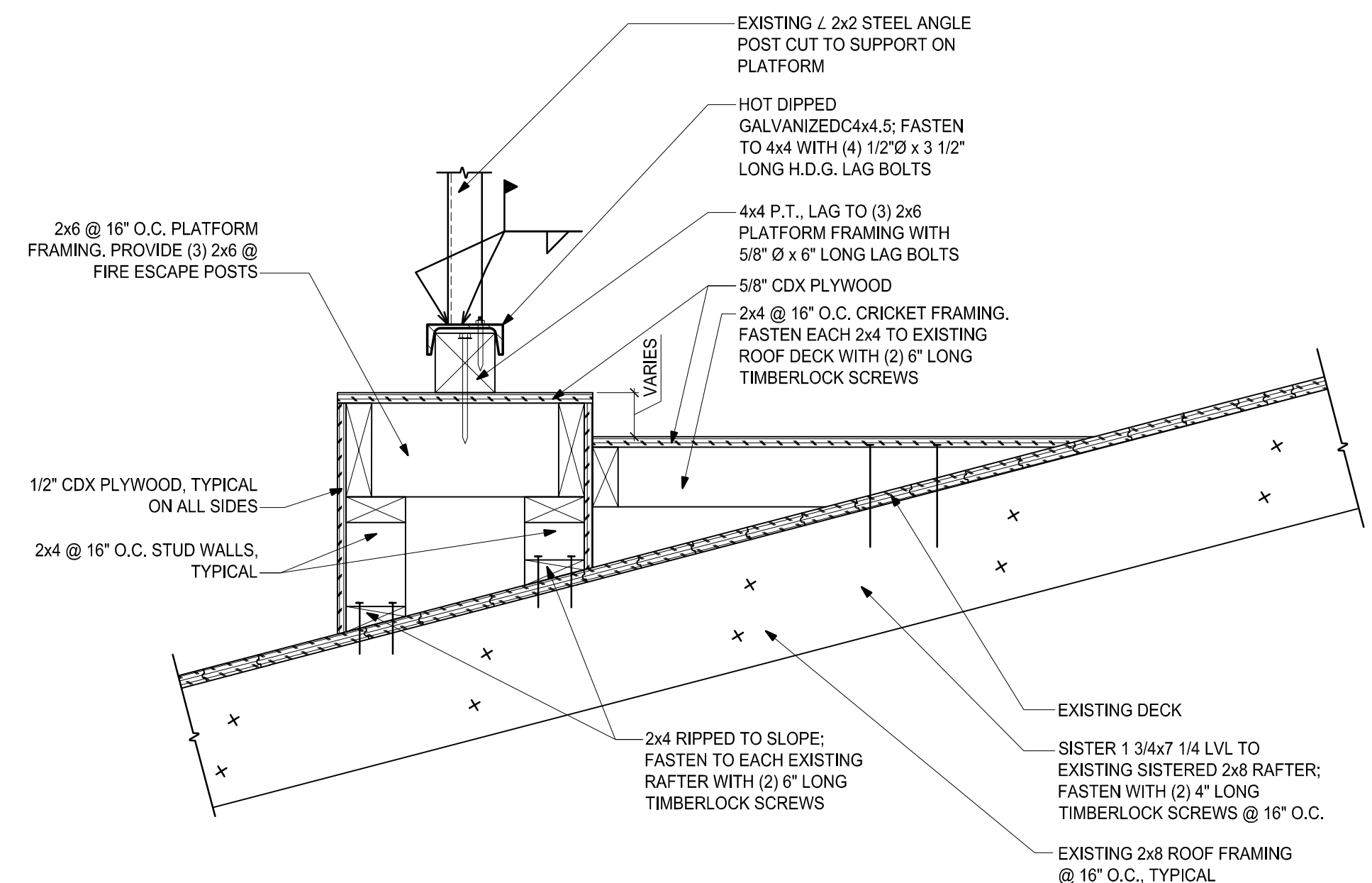
Submission:
BIDDING
DOCUMENTS

Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: EAD
Scale: 1/4" = 1'-0"

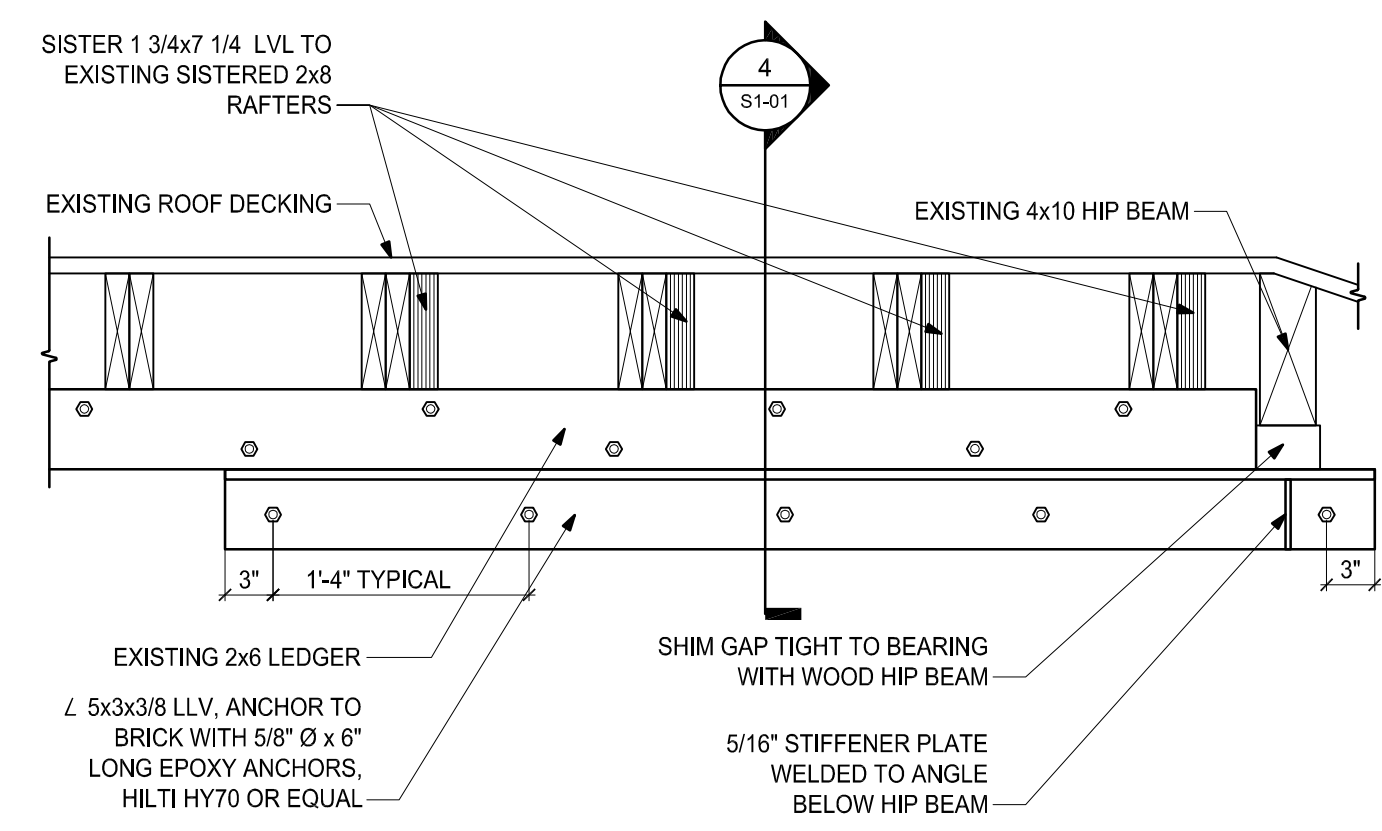
A6-01



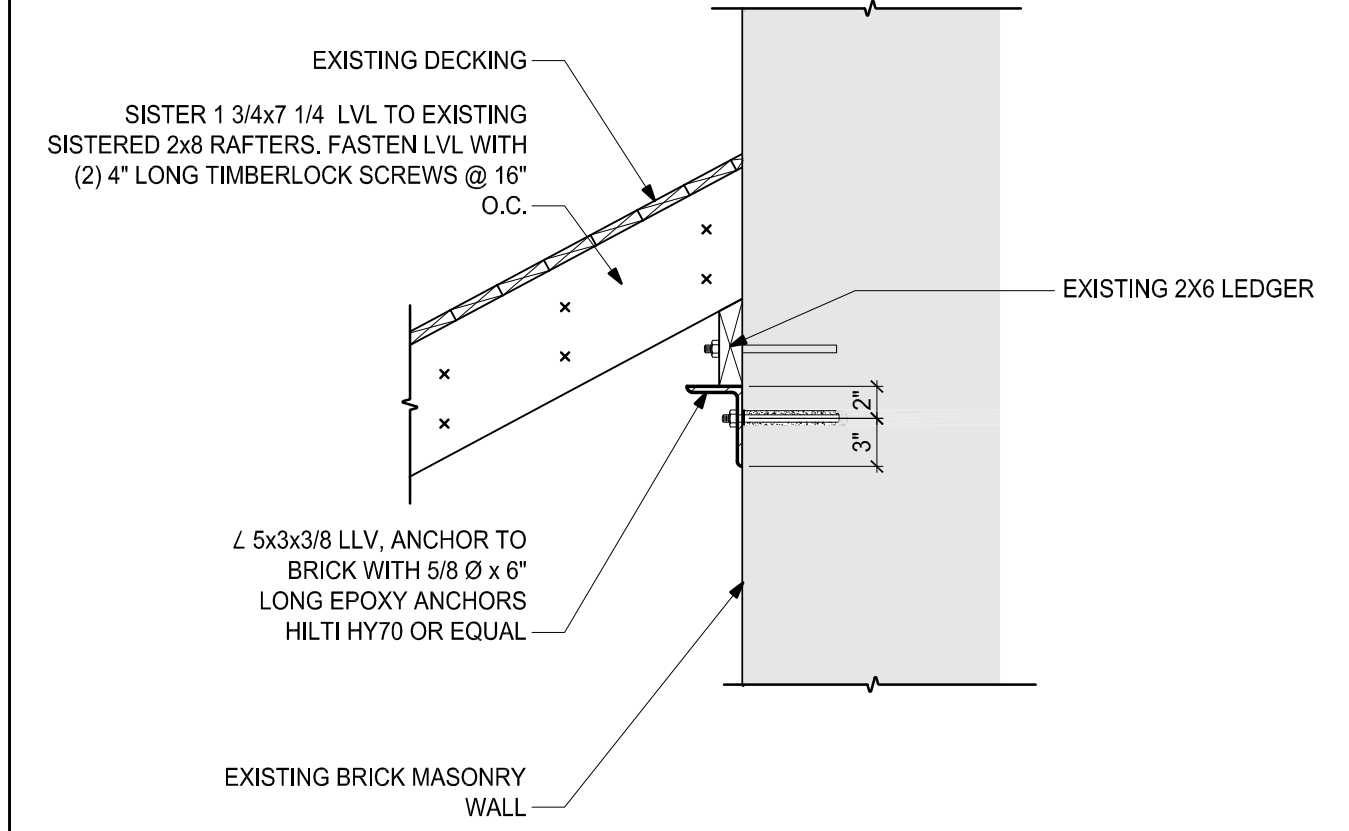
1 ROOF FRAMING PLAN
SCALE: 1/4"=1'-0"



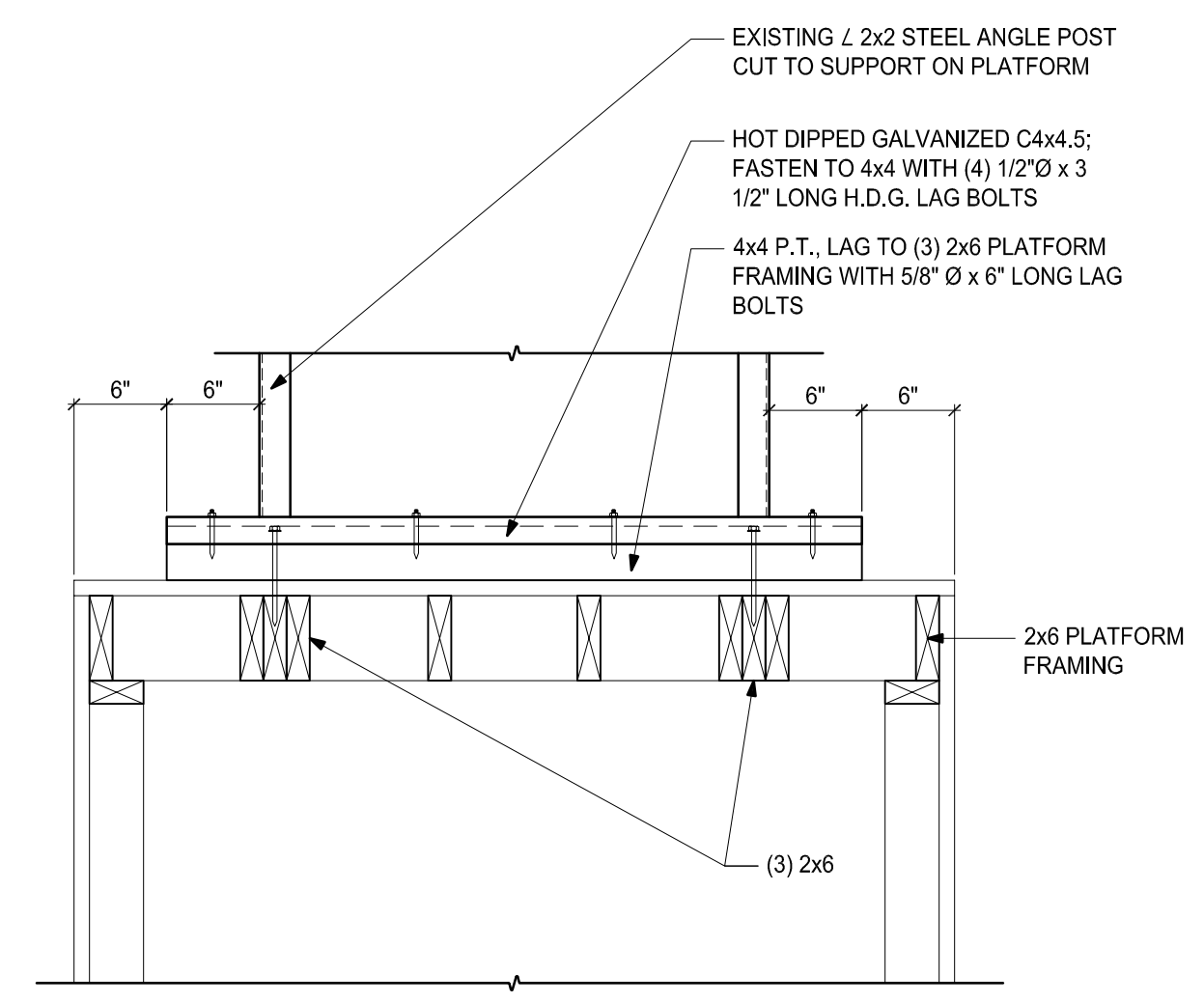
2 TYPICAL CRICKET DETAIL
SCALE: 1 1/2"=1'-0"



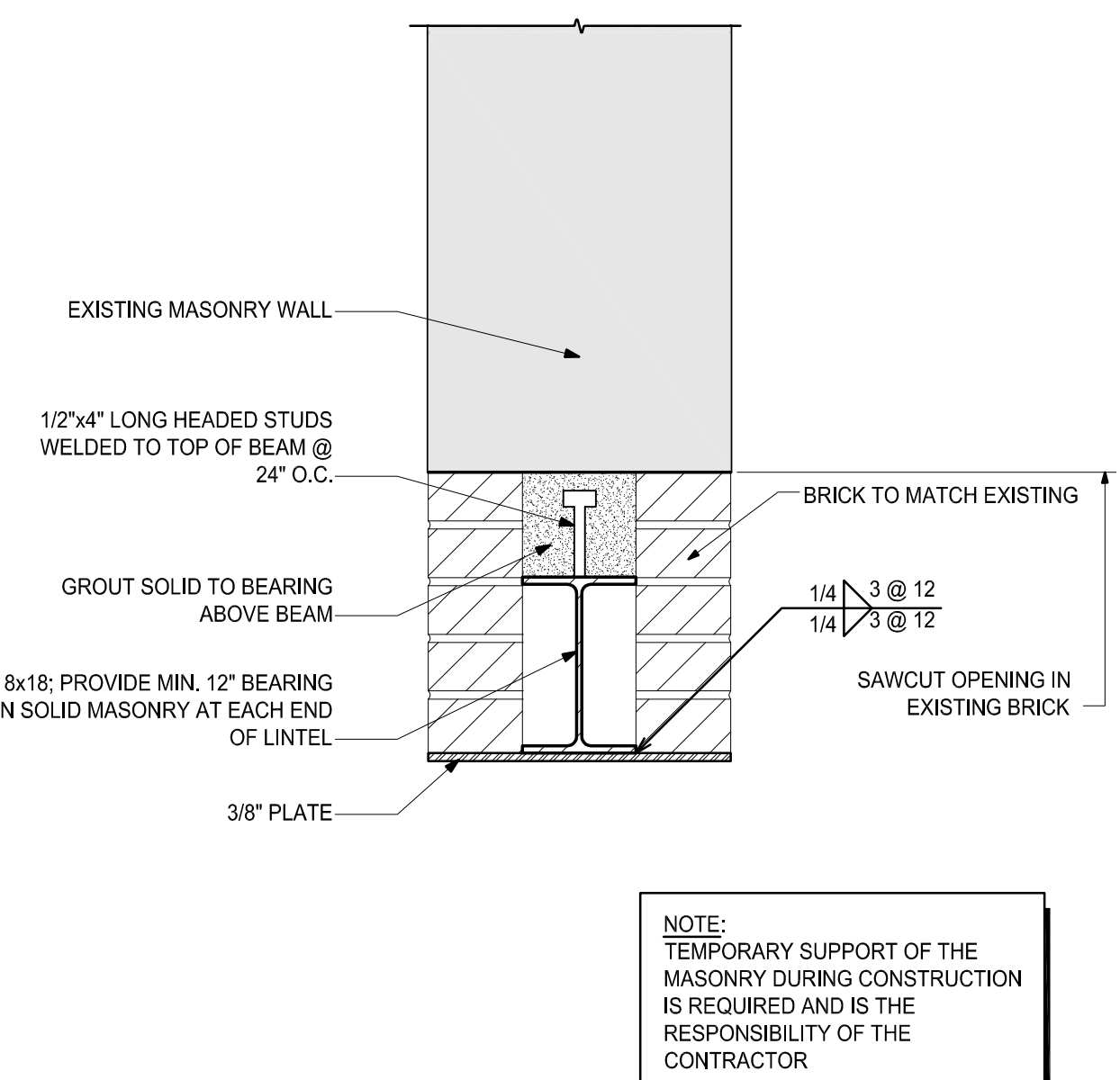
3 NEW LEDGER DETAIL
SCALE: 1"=1'-0"



4 SECTION AT LEDGER
SCALE: 1"=1'-0"



5 SECTION AT PLATFORM
SCALE: 1"=1'-0"



6 TYPICAL MASONRY LINTEL DETAIL
SCALE: 1 1/2"=1'-0"

P:\2015\15036-C\AutoCAD\Drawings\15036-C-S1-01.dwg, Jul 28, 2016, 7:06 pm, AVILLET



250 DORCHESTER AVENUE
BOSTON, MA 02127

P: (617) 268-8977
F: (617) 464-2971

cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF SOMERVILLE CROSS STREET SENIOR CENTER RENOVATIONS



CAPITAL PROJECTS AND
PLANNING DEPARTMENT
ONE FRANNEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

ROOF FRAMING PLAN AND DETAILS

Revisions:











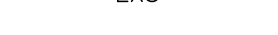









Submission:

BIDDING DOCUMENTS

Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: EAD
Scale: AS NOTED

S1-01

PLUMBING GENERAL LEGEND

	HW	120°F HOT WATER ABOVE FLOOR
	CW	COLD WATER ABOVE FLOOR
	EXHW	EXISTING 120°F HOT WATER ABOVE FLOOR
	EXCW	EXISTING COLD WATER ABOVE FLOOR
	ECO	END CLEANOUT
	HB	HOSE BIBB
		SANITARY PIPING UNDERGROUND OR BELOW THE FLOOR
	SAN	SANITARY ABOVE FLOOR
	EXS	EXISTING SANITARY ABOVE FLOOR
	V	VENT ABOVE FLOOR
		CAPPED PIPE
		ELBOW UP OR RISE
		ELBOW DOWN OR DROP
	ECO	END CLEANOUT BELOW FLOOR. PROVIDE ACCESS PANEL IN CEILING OF UNIT ON FLOOR BELOW
		COLD WATER FOR TRAP PRIMER ABOVE GROUND
	FD	FLOOR DRAIN AS INDICATED
	G	GAS PIPING ABOVE GROUND BY PLUMBING CONTRACTOR
	G	EXISTING GAS PIPING ABOVE GROUND BY PLUMBING CONTRACTOR
		GAS SERVICE BALL VALVE WITH TEE HANDLE
		DEMOLITION AREA

BUILDING PLUMBING FIXTURE SCHEDULE						
TAG No.	FIXTURE	COLD WATER(in)	HOT WATER(in)	SAN (in.)	VENT (in.)	REMARKS
P-1	WATER CLOSET	1"	-	4"	2"	TOTO WALL MOUNTED, FLUSHOMETER 1.28 GPF, MODEL #CT708EG, TOILET SEAT MODEL #SC134. TOTO HIGH-EFFICIENCY TOILET ECOPOWER FLUSHOMETER VALVE, 1.28 GPF, MODEL #TET6LN.
P-1A	WATER CLOSET HANDICAP ACCESSIBLE	1"	-	4"	2"	TOTO FLOOR MOUNTED, ADA ACCESSIBLE, FLUSHOMETER 1.28 GPF, MODEL #CT705ELN, TOILET SEAT MODEL #SC134. TOTO HIGH-EFFICIENCY TOILET ECOPOWER FLUSHOMETER VALVE, 1.28 GPF, ADA ACCESSIBLE, MODEL #TET6LN.
P-2	LAVATORY HANDICAP ACCESSIBLE	1/2"	1/2"	2"	2"	TOTO COUNTER MOUNTED, ADA COMPLIANT MODEL #LT402. TOTO GOOSENECK ECOPOWER FAUCET SINGLE SUPPLY, ADA COMPLIANT MODEL #TEL155D10EM
P-2A	LAVATORY HANDICAP ACCESSIBLE	1/2"	1/2"	2"	2"	TOTO WALL MOUNTED, ADA COMPLIANT MODEL #LT307. TOTO GOOSENECK ECOPOWER FAUCET SINGLE SUPPLY, ADA COMPLIANT MODEL #TEL155D10EM
P-3	URINAL HANDICAP ACCESSIBLE	3/4"	-	2"	2"	TOTO WALL MOUNTED, HIGH-EFFICIENCY, ADA COMPLIANT, MODEL #UT445U. TOTO HIGH-EFFICIENCY URINAL ECOPOWER FLUSHOMETER VALVE, 0.5 GPF, ADA COMPLIANT, MODEL #TETU1LN.
P-4	SINK	1/2"	1/2"	2"	2"	AERO FREE STANDING SINK MODEL #2F-2424-9. BOWL DEPTH IS TO BE 9". AERO FAUCET SHALL BE MODEL #S-1, 8" O.C. FAUCET (CH), 12" SPOUT.

1. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE DRAWINGS FOR LEFT OR RIGHT HAND DRAIN OPENINGS FOR ALL TUB/SHOWER FIXTURES
2. ALL HANDICAP ACCESSIBLE FIXTURES SHALL BE ADA COMPLIANT
3. THE PLUMBING CONTRACTOR SHALL COORDINATE ALL FIXTURE INSTALLATION DIMENSIONS WITH THE ARCHITECTURAL DETAILS ON THE ARCHITECTURAL DRAWINGS
4. THE PLUMBING CONTRACTOR SHALL REVIEW THE PROJECT SPECIFICATION SHEETS FOR ADDITIONAL INFORMATION REGARDING THE PLUMBING FIXTURES

ABBREVIATION

AFF	ABOVE FINISH FLOOR	TYP	TYPICAL
BLDG	BUILDING	VTR	VENT THRU ROOF
CW	COLD WATER	W/	WITH
DN	DOWN	WH	NON-FREEZE WALL HYDRANT
DWG	DRAWING	DCO	DANDY (RISER) CLEANOUT
DCO	DANDY (RISER) CLEANOUT	HW	HOT WATER
ECO	END CLEANOUT	V	VENT
EXFCO	EXISTING FLOOR CLEANOUT	SAN	SANITARY
P-#	FIXTURE NUMBER	SD	STORM DRAIN
P.C.	PLUMBING CONTRACTOR	IW	INDIRECT WASTE
FCO	FLOOR CLEANOUT	YH	OUTSIDE NON-FREEZE YARD HYDRANT
G	NATURAL GAS	NTS	NOT TO SCALE
GC	GENERAL CONTRACTOR		

GENERAL PLUMBING NOTES

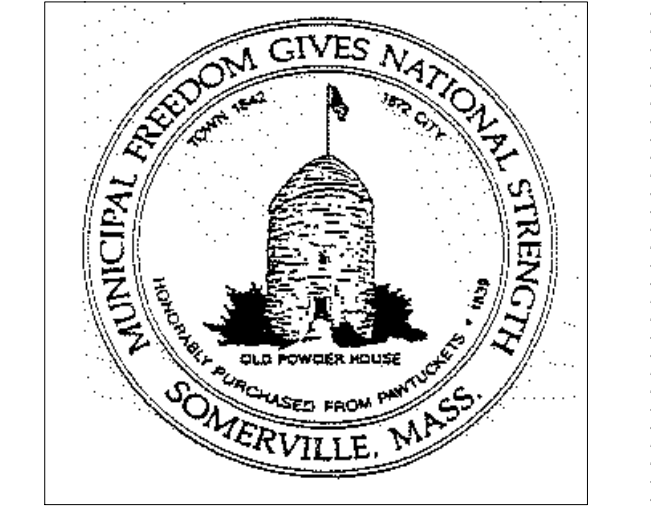
1. ALL PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE MASSACHUSETTS STATE PLUMBING AND FUEL GAS CODE.
2. CAREFULLY COORDINATE LOCATION OF PIPING WITH ALL OTHER TRADES.
3. ALL PIPING SHOWN DIAGRAMMATIC ALLY AND EXACT LOCATION SHALL BE DETERMINED IN THE FIELD.
4. ALL PIPING SHALL BE RUN CONCEALED ABOVE CEILINGS, IN WALLS AND IN CHASES, UNLESS OTHERWISE NOTED.
5. NO STRUCTURAL MEMBERS SHALL BE CUT WITHOUT THE APPROVAL OF THE ENGINEER.
6. ALL PIPING SHALL BE SUPPORTED FROM BUILDING STRUCTURE.
7. RUN WATER PIPE ON THE WARM SIDE OF BUILDING INSULATION. NO WATER PIPING SHALL BE RUN IN EXTERIOR WALLS.
8. PROVIDE DRAW OFFS WITH BALL VALVE, HOSE END VACUUM BREAKER, CAP & CHAIN AT ALL DOMESTIC WATER LOW POINTS AND PITCH PIPING TO DRAIN.
9. ALL SANITARY WASTE PIPING SHALL PITCH A MIN. OF 1/8" PER FT. FOR PIPING 4" & LARGER, 1/4" FOR PIPING UP TO 3". ALL VERTICAL SANITARY LINES TO BE INSULATED, INSULATION AS SPECIFIED.
10. PROVIDE ACCESSIBLE CLEANOUTS AT THE BASE OF ALL STACKS, AS SHOWN, AND AS REQUIRED.
11. ALL PIPING SHALL BE NEW, INSTALLED PARALLEL TO BUILDING LINES AND PITCHED TO LOW POINTS.
12. PLUMBING CONTRACTOR SHALL PROVIDE FIRE STOPPING FOR ALL PENETRATIONS THROUGH ALL FLOORS, FIRE WALLS AND FIRE RATED SEPARATIONS. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR THESE AREAS AND PROVIDE LINK SEAL FIRE STOPPING KITS.
13. PLUMBING CONTRACTOR SHALL BE FURNISH, INSTALL AND MAINTAIN ALL SCAFFOLDING, HOISTING EQUIPMENT, DERRICKS, ETC., NECESSARY FOR INSTALLATION OF WORK.
14. ALL PLUMBING PIPING AND DRAINS SHALL BE KEPT CLEAR OF BLOCKAGE WHILE CONSTRUCTION IS UNDERWAY. ALL PLUMBING PIPING SHALL BE DEBURRED BEFORE JOINTS ARE MADE.
15. ALL CONDITIONS SHOWN ARE APPROXIMATE ONLY. ALL CONDITIONS SHALL BE VERIFIED IN THE FIELD. ALL NEW SYSTEMS SHALL BE COORDINATED WITH ALL CONDITIONS AND TRADES. EXACT LOCATIONS OF ALL CONNECTIONS TO SYSTEMS AND EQUIPMENT SHALL BE DETERMINED IN FIELD.
16. PRIOR TO BID, THE CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL TRADE DRAWINGS AND ALL ASPECTS OF THE WORK AND ALL CONDITIONS TO WHICH THE WORK WILL BE INSTALLED. ANY DISCREPANCIES BETWEEN THE WORK SHOWN ON THE DRAWINGS AND ANY CONDITIONS SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING.
17. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATIONS OF ALL VENT PIPING THROUGH THE ROOF WITH THE ROOF TOP HVAC EQUIPMENT. ALL VENT PIPES THRU THE ROOF SHALL MAINTAIN THE PROPER DISTANCES FROM ALL HVAC ROOF TOP EQUIPMENT IN ACCORDANCE WITH THE STATE PLUMBING CODE.
18. CAREFULLY COORDINATE LOCATION OF PIPING WITH ALL OTHER TRADES AND ALL CONDITIONS AT THE SITE.
19. DIELECTRIC INSULATING FITTINGS SHALL BE USED WHERE PIPES OF DISSIMILAR METALS ARE CONNECTED, AND AT THE WATER HEATER.
20. THE INFORMATION SHOWN ON THE DRAWINGS IS GENERALLY DIAGRAMMATIC AND IS NOT INTENDED TO INDICATE EXACT ROUTES OF PIPING OR LOCATIONS OF VALVES AND EQUIPMENT. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO DETERMINE THE BEST ROUTES OF PIPING AND LOCATIONS OF VALVES AND EQUIPMENT IN CONJUNCTION WITH WITH COORDINATION BETWEEN ALL OTHER TRADES AT THE SIGHT.
21. ALL NEW SYSTEMS SHALL BE TESTED, BALANCED AND ADJUSTED TO INSURE PROPER OPERATION AND CODE COMPLIANT INSTALLATION PIPING AND EQUIPMENT SHALL BE TESTED IN ACCORDANCE WITH THE STATE PLUMBING CODE
22. THE CONTRACTOR SHALL BE CAREFUL TO INSURE THAT NO CROSS CONNECTIONS ARE MADE BETWEEN THE POTABLE WATER SUPPLY AND ALL SOURCES OF CONTAMINATION OR CROSS CONNECTION.
23. ALL PIPING MATERIALS, FITTINGS VALVES UNIONS, HANGERS, EQUIPMENT, INSTALLATION AND ALL ASPECTS OF THE PLUMBING WORK SHALL BE AS APPROVED BY THE MASSACHUSETTS STATE PLUMBING AND FUEL GAS CODES
24. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF WALLS AND FLOORS TO ACCOMMODATE INSTALLATION OF NEW PIPING AND EQUIPMENT. CONTRACTOR SHALL PATCH ALL SURFACES TO MATCH THE EXISTING CONDITIONS AND TO THE SATISFACTION OF THE ARCHITECT.
25. PROVIDE SERVICE STOPS FOR ALL FIXTURES
26. GAS METERS AND MAIN REGULATORS SHALL BE BY THE GAS UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE WITH THE GAS UTILITY FOR EXACT LOCATION OF ALL GAS METERS
27. ALL FINAL CONNECTIONS TO GAS EQUIPMENT SHALL BE MADE WITH A SHUT OFF VALVE, A UNION AND A DIRT LEG. DIRT LEGS SHALL BE PROVIDE AT THE BASE OF ALL VERTICAL GAS PIPING.
28. SEE PLUMBING FIXTURE SCHEDULES AND DETAILS FOR ALL PIPE SIZES NOT SHOWN ON PLANS, AND FOR ALL PLUMBING CONNECTIONS TO FIXTURES THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FINAL CONNECTIONS TO ALL EQUIPMENT REQUIRING PLUMBING
29. ADJUSTABLE, SELF LIMITING GAS REGULATORS SHALL BE PROVIDED AT EACH AND EVERY PIECE OF GAS FIRED EQUIPMENT THAT REQUIRES A GAS REDUCTION OF PRESSURE AT THE FIXTURE.
30. THE TERM "CONTRACTOR" SHALL MEAN PLUMBING CONTRACTOR
31. THE CONTRACTOR SHALL CAREFULLY COORDINATE ALL UNDERGROUND PIPING WITH THE FIRE PROTECTION CONTRACTOR TO DETERMINE THE BEST ROUTE FOR ALL UNDERGROUND PIPING
32. PLUMBER SHALL FURNISH AND INSTALL ALL TRAPS, ANGLE STOPS, WASTE ARMS, STRAINERS, TAILPIECES, FIXTURE SUPPLIES AND ALL PLUMBING CONNECTIONS TO ALL PLUMBING FIXTURES REQUIRING PLUMBING AND AS REQUIRED FOR A COMPLETE PLUMBING SYSTEM.
33. ALL PLUMBING FIXTURE TYPES AND LOCATIONS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL HAVE THE APPROVAL OF THE ARCHITECT FOR ALL PLUMBING FIXTURE TYPES, QUANTITIES AND LOCATIONS PRIOR TO PURCHASE
34. THE PLUMBING CONTRACTOR SHALL CREATE A SCALE DRAWING FOR THE BUILDING SHOWING THE LOCATIONS OF ALL BACK FLOW PREVENTION DEVICES AND DETAILS OF THEIR INSTALLATION METHODS. THE PLUMBING CONTRACTOR SHALL ALSO OBTAIN MANUFACTURER CUT SHEETS OF ALL BACK FLOW PREVENTION DEVICES AND SHALL INDICATE THE SIZES AND MODEL NUMBERS BEING USED. THE PLUMBING CONTRACTOR SHALL SUBMIT THESE DRAWINGS AND CUT SHEETS TO THE LOCAL WATER AUTHORITY FOR APPROVAL. NO BACK FLOW PREVENTION DEVICE SHALL BE INSTALLED UNTIL WRITTEN APPROVAL OF ALL BACK FLOW PREVENTION DEVICES HAS BEEN OBTAINED BY THE PLUMBING CONTRACTOR FROM THE LOCAL WATER AUTHORITY.
35. IN THE EVENT THAT THERE ARE DISCREPANCIES BETWEEN PIPE SIZES SHOWN ON THE PLANS VERSUS THAT SHOWN ON THE DETAILS OR RISER DIAGRAMS, THE LARGER PIPE SIZE SHALL BE FOLLOWED.
36. THE CONNECTIONS TO ALL GAS FIRED EQUIPMENT SHOWN ARE APPROXIMATE ONLY AND SHALL BE VERIFIED IN THE FIELD BY THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE GAS FIRED EQUIPMENT TO DETERMINE THE EXACT LOCATION AND TYPE OF GAS CONNECTION AND SHALL MAKE ALL REQUIRED ADJUSTMENTS TO THE DRAWINGS AT NO EXTRA COST TO THE CONTRACT.
37. ALL VENT TERMINATIONS ABOVE THE ROOF SHALL BE LOCATED A MINIMUM DISTANCE OF 25 FEET AWAY FROM ANY FRESH AIR INTAKE. IN THE EVENT THAT THE 25 FOOT DISTANCE CANNOT BE ACHIEVED THEN A MINIMUM OF 10 FEET OF DISTANCE SHALL BE MAINTAINED AND THE VENT PIPE SHALL RISE UP TO A MINIMUM OF 2 FEET ABOVE THE FRESH AIR INTAKE.



250 DORCHESTER AVENUE
BOSTON, MA 02127
P: (617) 268-8977
F: (617) 464-2971

cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF
SOMERVILLE
CROSS STREET
SENIOR CENTER
RENOVATIONS



CAPITAL PROJECTS AND
PLANNING DEPARTMENT
ONE FRANEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

PLUMBING
LEGEND, NOTES, &
SCHEDULES

Revisions:

Submission:

BIDDING
DOCUMENTS

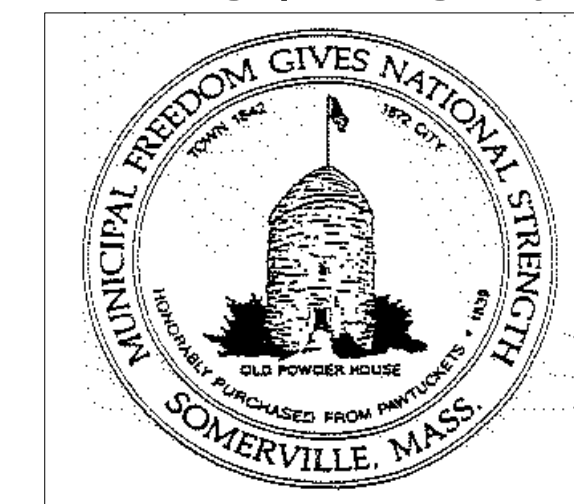
Date: 07/29/16
Project Number: 15038-C
Project Manager: AMW
Drawn By: CG
Scale: AS NOTED

P001

BLW
BLW Engineers, Inc.
311 Great Road, Post Office Box 1551
Littleton, Massachusetts 01460
T: 978.486.4301 F: 978.428.0067
www.blwengineers.com

HVAC * ELECTRICAL * PLUMBING * FIRE PROTECTION

**CITY OF
SOMERVILLE
CROSS STREET
SENIOR CENTER
RENOVATIONS**



**CAPITAL PROJECTS AND
PLANNING DEPARTMENT**
ONE FRANEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

**PLUMBING
RESTROOM
RENOVATION PLAN**

Revisions:

Submission:

**BIDDING
DOCUMENTS**

Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: CG
Scale: AS NOTED

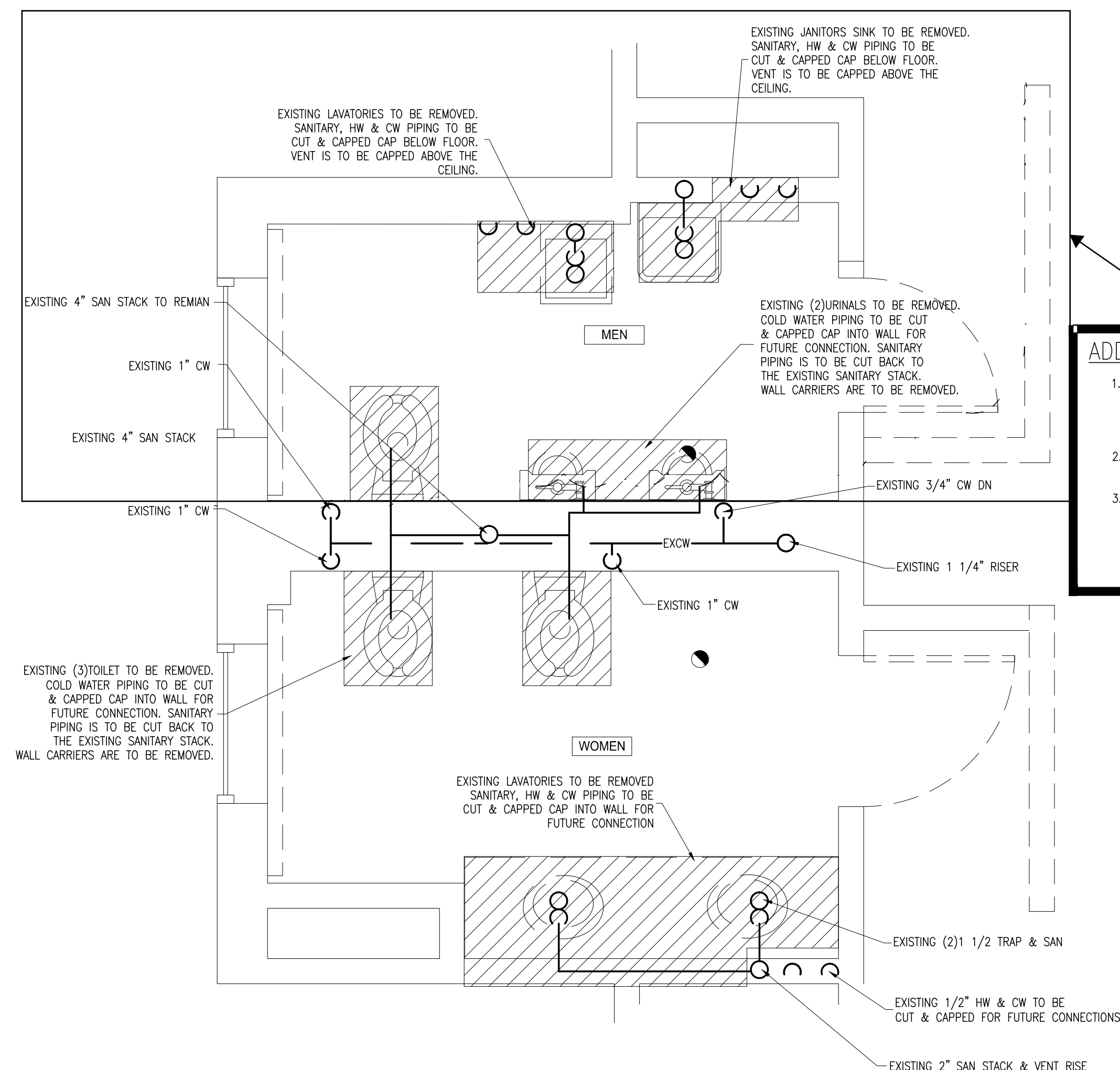
P100



BLW Engineers, Inc.

311 Great Road, Post Office Box 1551
Littleton, Massachusetts 01460
T: 978.486.4301 F: 978.428.0067
www.blwengineers.com

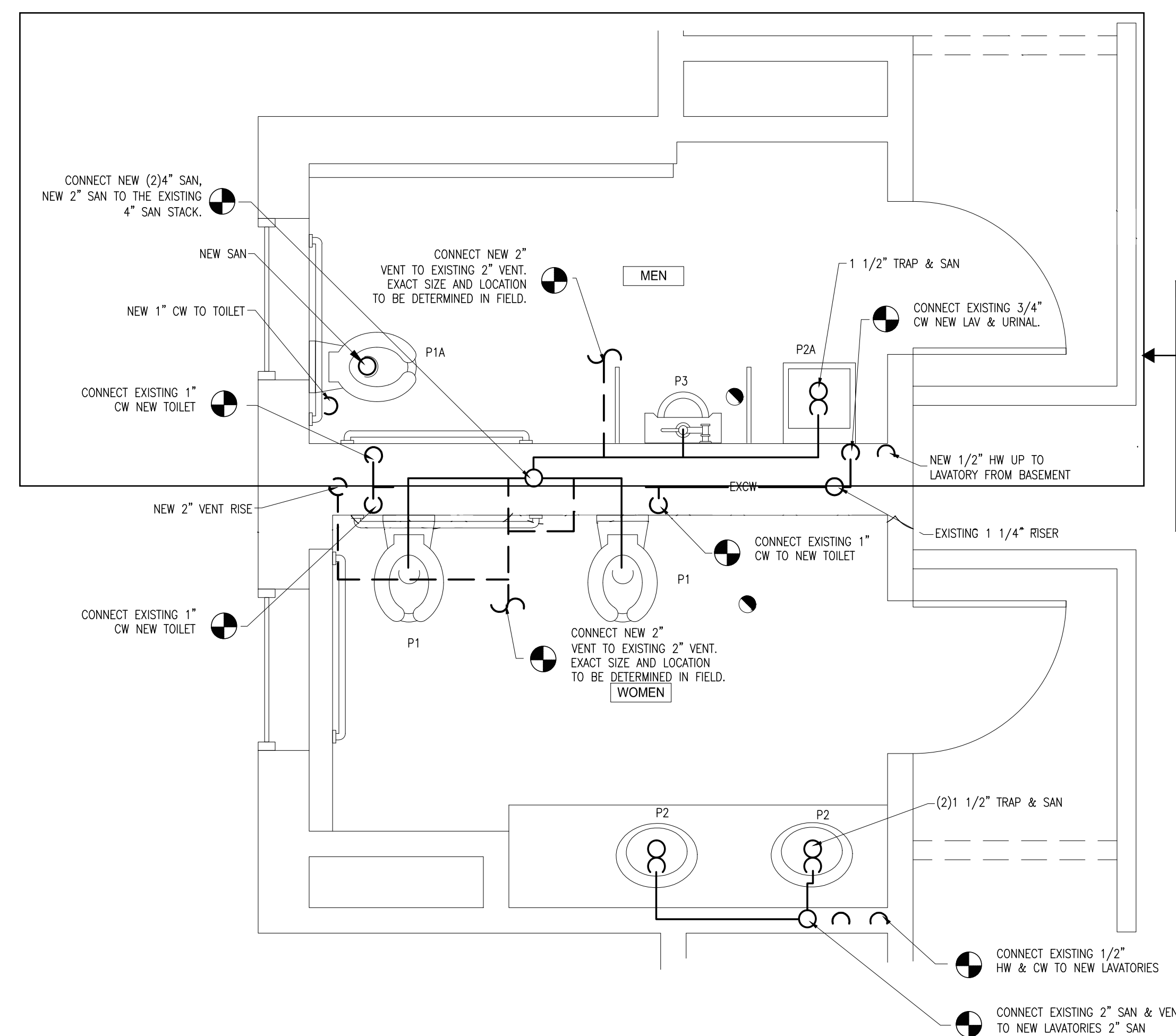
HVAC * ELECTRICAL * PLUMBING * FIRE PROTECTION



1 PLUMBING - First Floor Restroom Demolition Plan
SCALE: 1/2"= 1'-0"

ADD ALTERNATE NO. 001

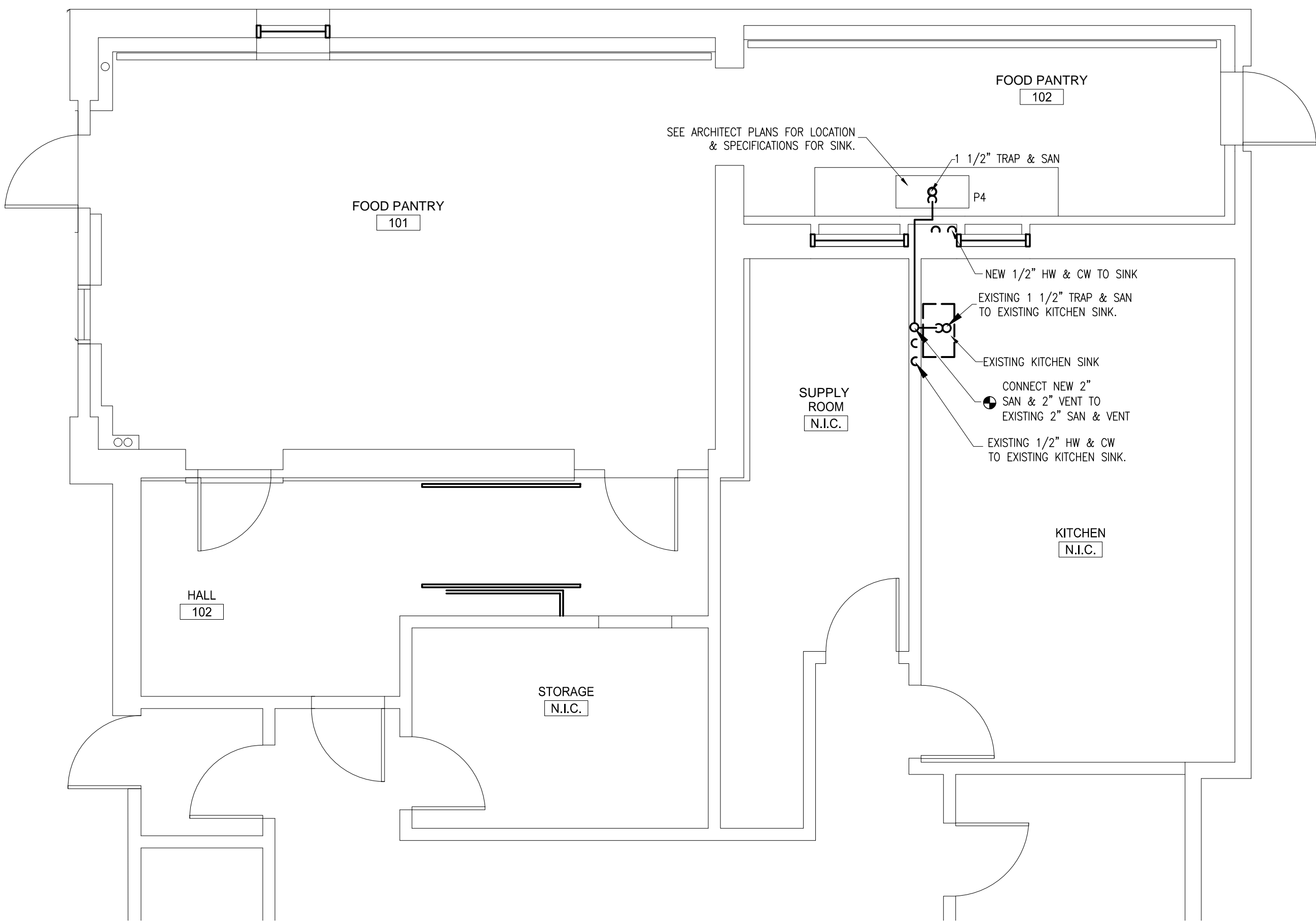
1. THE PLUMBING CONTRACTOR SHALL PROVIDE AN ADD ALTERNATE COST TO PROVIDE THE PLUMBING SYSTEM SHOWN IN THE MEN'S RESTROOM.
2. IN THE MEN'S AND WOMEN'S BATHROOM THE FIXTURES ARE BEING REMOVED.
3. AT THE TIME OF THE SITE VISIT SOME OF THE EXISTING CONDITION COULD NOT BE CONFIRMED BECAUSE OF THE WALLS & CEILINGS ARE STILL IN PLACE. CONTRACTOR TO VISIT SITE AND CONFIRM THE EXACT SIZE & LOCATION OF PIPING.



2 PLUMBING - First Floor Restroom New Plan
SCALE: 1/2"= 1'-0"

ADD ALTERNATE NO. 001

1. THE PLUMBING CONTRACTOR SHALL PROVIDE AN ADD ALTERNATE COST TO PROVIDE THE PLUMBING SYSTEM SHOWN IN THE MEN'S RESTROOM.
2. AT THE TIME OF THE SITE VISIT SOME OF THE EXISTING CONDITION COULD NOT BE CONFIRMED BECAUSE OF THE WALLS & CEILINGS ARE STILL IN PLACE. CONTRACTOR TO VISIT SITE AND CONFIRM THE EXACT SIZE & LOCATION OF PIPING.



1 PLUMBING - First Floor New Plan
SCALE: 1/4"= 1'-0"




250 DORCHESTER AVENUE
BOSTON, MA 02127
P: (617) 268-8977
F: (617) 464-2971
cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF
SOMERVILLE
CROSS STREET
SENIOR CENTER
RENOVATIONS



CAPITAL PROJECTS AND
PLANNING DEPARTMENT
ONE FRANNEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

PLUMBING
FOOD PREP
RENOVATION PLAN

Revisions:

Submission:

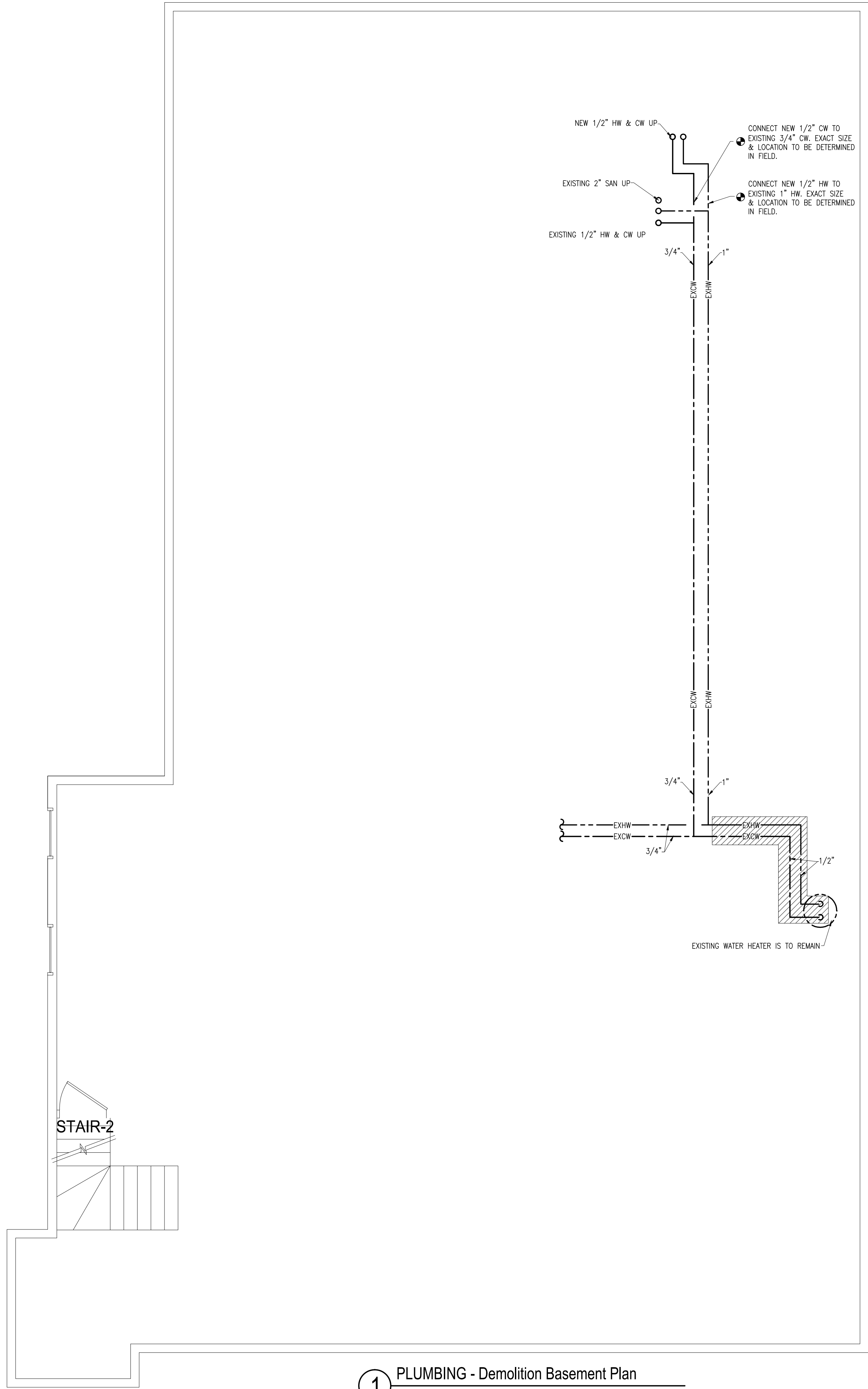
BIDDING
DOCUMENTS


BLW Engineers, Inc.
311 Great Road, Post Office Box 1551
Littleton, Massachusetts 01460
T: 978.486.4301 F: 978.428.0067
www.blwengineers.com

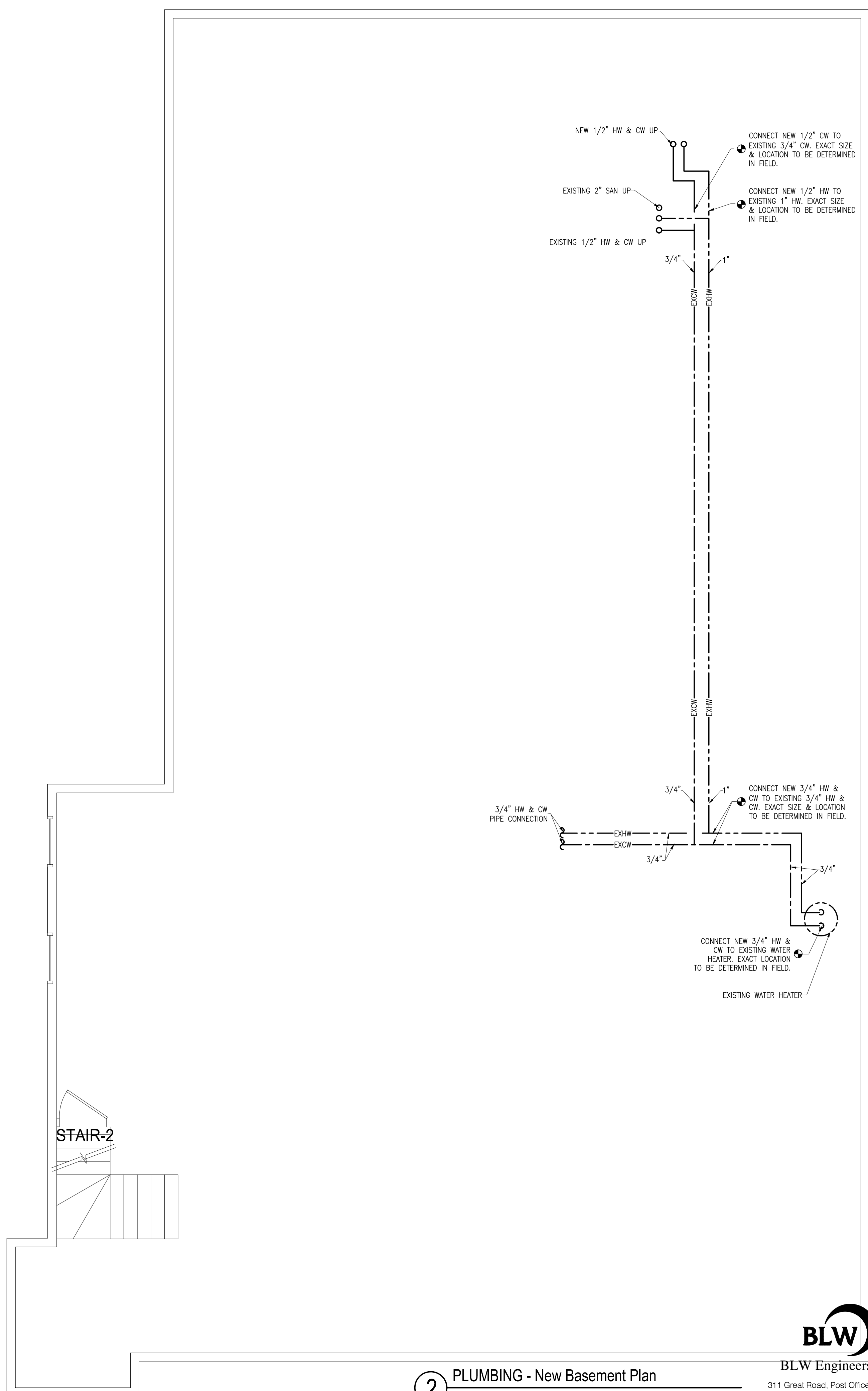
HVAC * ELECTRICAL * PLUMBING * FIRE PROTECTION

Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: CG
Scale: AS NOTED

P102



1 PLUMBING - Demolition Basement Plan
SCALE: 1/4"= 1'-0"



2 PLUMBING - New Basement Plan
SCALE: 1/4"= 1'-0"

BLW
BLW Engineers, Inc.
311 Great Road, Post Office Box 1551
Littleton, Massachusetts 01460
T: 978.486.4301 F: 978.428.0067
www.blwengineers.com

HVAC * ELECTRICAL * PLUMBING * FIRE PROTECTION



250 DORCHESTER AVENUE
BOSTON, MA 02127

P: (617) 268-8977
F: (617) 464-2971

cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF
SOMERVILLE
CROSS STREET
SENIOR CENTER
RENOVATIONS



CAPITAL PROJECTS AND
PLANNING DEPARTMENT
ONE FRANEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

PLUMBING
FOOD PREP
RENOVATION PLAN

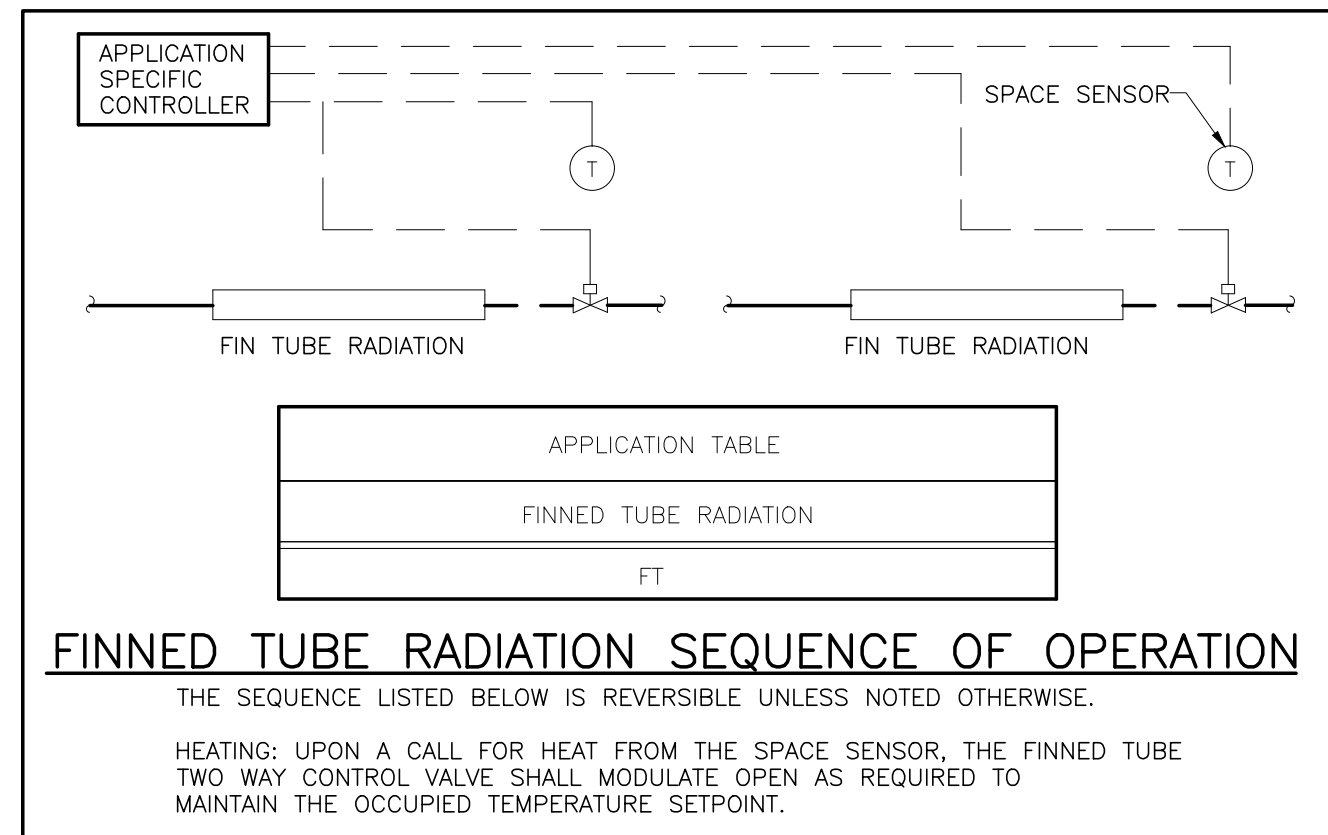
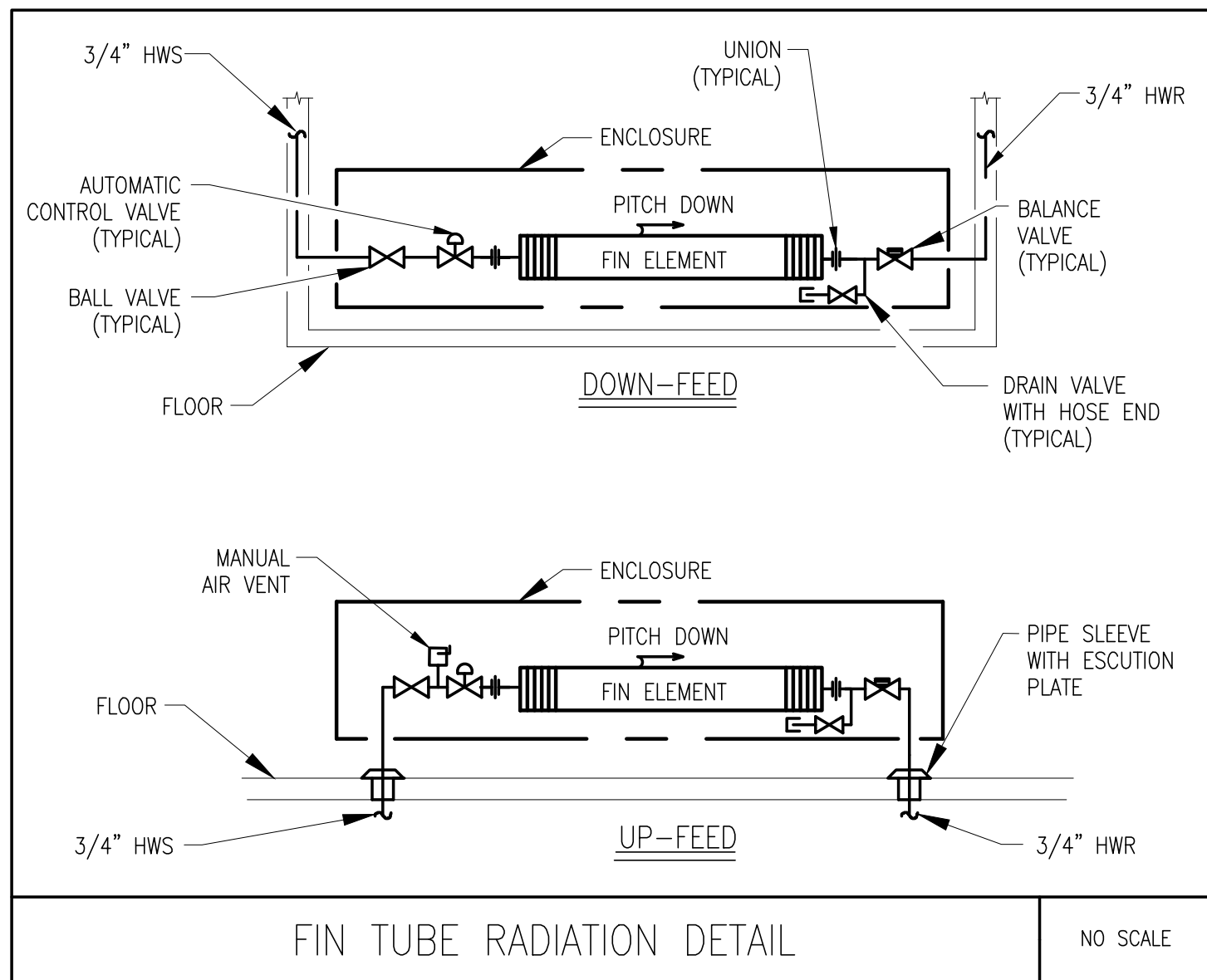
Revisions:

Submission:

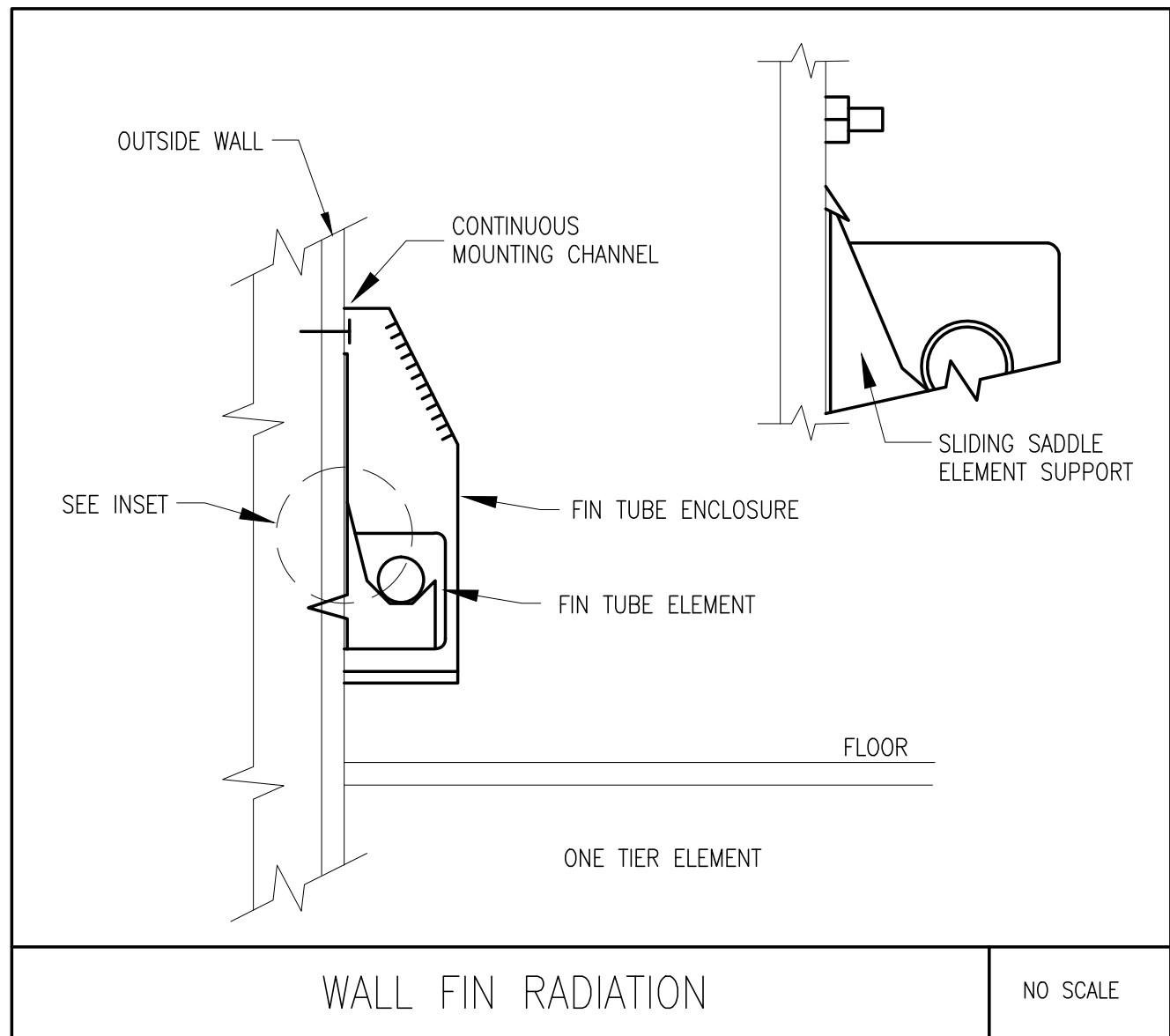
BIDDING
DOCUMENTS

Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: CG
Scale: AS NOTED

P103



ABBREVIATIONS	DRAWING NOTES	GENERAL NOTES	DEMOLITION GENERAL NOTES
ATC AUTOMATIC TEMP. CONTROL BTUH BRITISH THERMAL UNIT PER HR. CFM CUBIC FEET PER MINUTE CONN. CONNECT CONTR. CONTRACTOR CP CONTROL PANEL DB DRY BULB TEMPERATURE (°F) DIA. DIAMETER DN DOWN DWG DRAWING EAT ENTERING AIR TEMPERATURE EC ELECTRICAL CONTRACTOR EWT ENTERING WATER TEMPERATURE GC GENERAL CONTRACTOR GPM GALLONS PER MINUTE HP HORSE POWER HVAC HEATING, VENTILATION AND AIR CONDITIONING LWT LEAVING WATER TEMPERATURE MBH THOUSANDS OF BRITISH THERMAL UNITS PER HOUR MECH MECHANICAL NTS NOT TO SCALE PD PRESSURE DROP	ACCU-1 EQUIPMENT DESIGNATION Δ DRAWING REVISION NOTE ① DRAWING WORK NOTE ○ CONNECT TO EXISTING ☁ REVISION CLOUD EQUIPMENT TAGS EF EXHAUST FAN FTR FINNED TUBE RADIATION	1. MECHANICAL WORK INDICATED IS DIAGRAMMATIC. EXACT LOCATIONS OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD TO AVOID CONFLICT WITH OTHER TRADES AND EXISTING SITE CONDITIONS. 2. ALL INSTALLATIONS SHALL PERMIT AND PROVIDE ACCESSIBILITY FOR SERVICE AND REPLACEMENT OF ALL NEW EQUIPMENT IMPACTED BY THIS WORK. 3. ALL MECHANICAL EQUIPMENT AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF GOVERNING LOCAL, STATE, AND FEDERAL SEISMIC CODES. PARTICULAR ATTENTION SHALL BE MADE TO VIBRATION ISOLATION, ANCHORING, AND BALANCING REQUIREMENTS. 4. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED ON THIS PROJECT. 5. OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES RELATED TO SAME. 6. PROVIDE ALL NECESSARY EQUIPMENT AND SUPPORTS AS WELL AS ANY ADDITIONAL EQUIPMENT, ETC. NOT SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS BUT NECESSARY TO PROVIDE COMPLETE AND WORKABLE SYSTEMS. 7. PROVIDE ACCESS TO ALL EQUIPMENT REQUIRING PERIODIC SERVICE AND MAINTENANCE. 8. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.	1. PRIOR TO COMMENCING WORK OF THIS SECTION, EXAMINE SITE AND CONDITIONS UNDER WHICH WORK WILL BE PERFORMED. DETERMINE EXACT LOCATIONS OF EXISTING EQUIPMENT, PIPING AND CONTROLS. REPORT TO OWNER ANY CONDITIONS THAT MIGHT ADVERSELY AFFECT WORK. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS AND PREPARATORY WORK. 2. COMPLY WITH ALL STATE AND LOCAL CODES AS TO REMOVAL AND DISPOSAL OF EQUIPMENT REMOVED FROM THE SITE. 3. COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING SELECTIVE DEMOLITION. 4. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION. 5. COMPLY WITH ANSI A10.6 AND NFPA 241. 6. PERMITS: GIVE ALL REQUIRED NOTICES, FILE ALL REQUIRED PLANS AND SPECIFICATIONS RELATING TO THE WORK OF THIS SECTION WITH THE PROPER AUTHORITIES AND PAY FOR ANY REQUIRED PERMITS. 7. STORAGE OR SALE OF REMOVED ITEMS OR MATERIALS ON-SITE IS NOT PERMITTED.



FAN SCHEDULE											
TAG No.	LOCATION(S) SERVED	MANUFACTURER (AS STANDARD)	MODEL No. (AS STANDARD)	TYPE	FAN DATA			ELECTRICAL DATA			REMARKS
					CFM	RPM	ESP(N)	VOLTS	PHASE	HP	
EF-1	BATHROOM	PANASONIC	FV-05-11VKS1	CEILING	80 MAX.	1131	.25	120	1	10.2 WATTS .10 AMPS	1,2,3

1. PROVIDE DISCONNECT SWITCH.

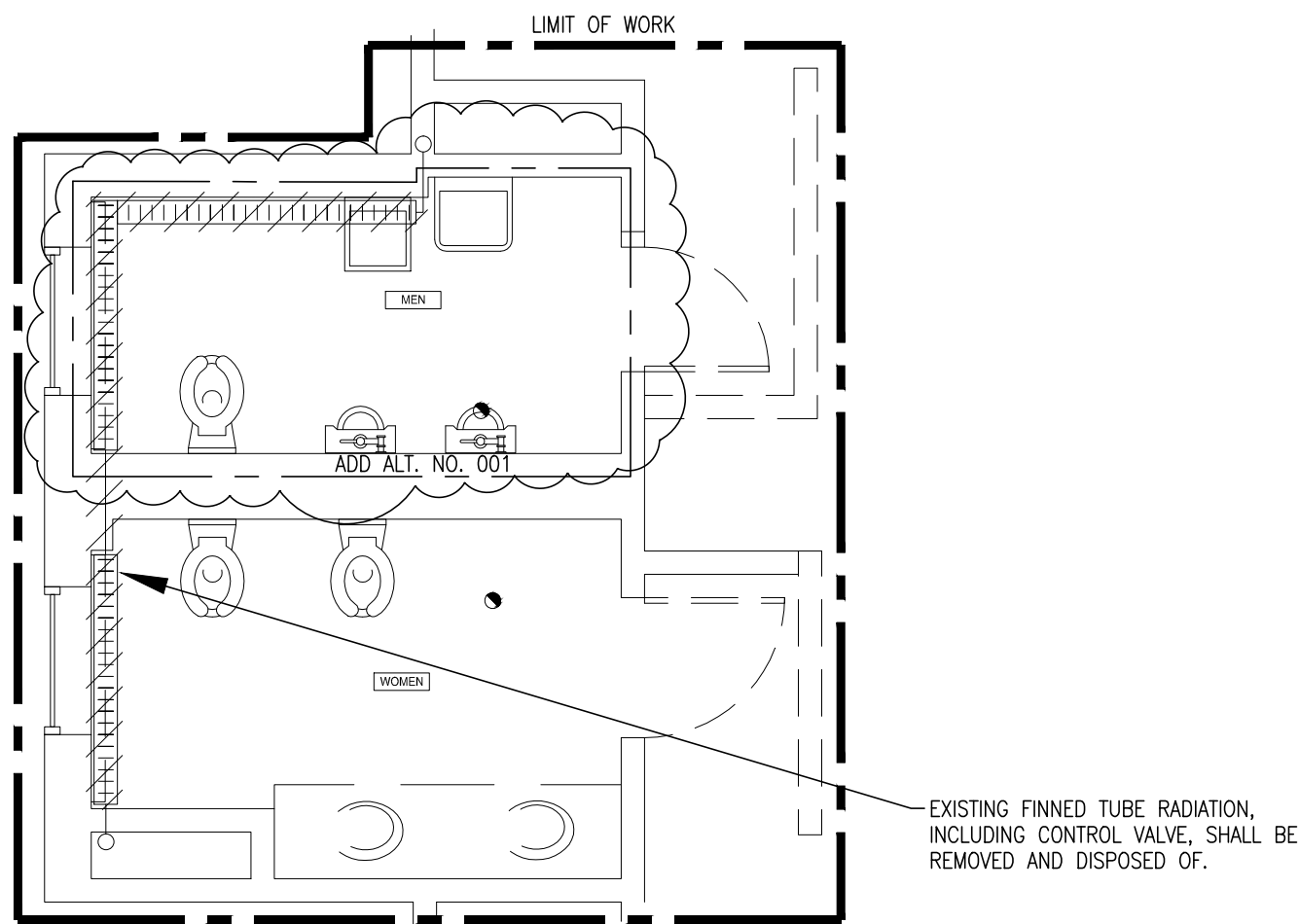
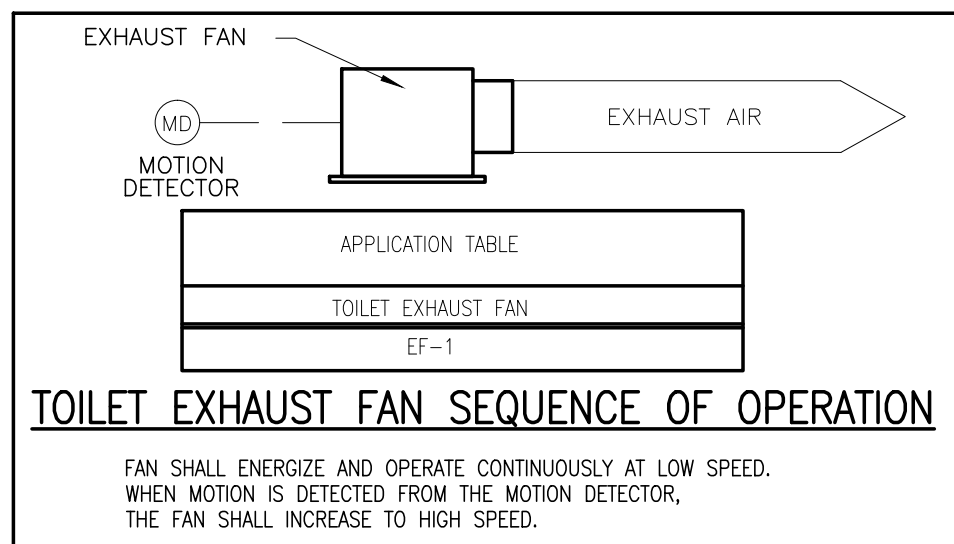
2. PROVIDE WALL CAP TERMINATION – BROAN MODEL 641 (S.S.)

3. PROVIDE MOTION SENSOR.

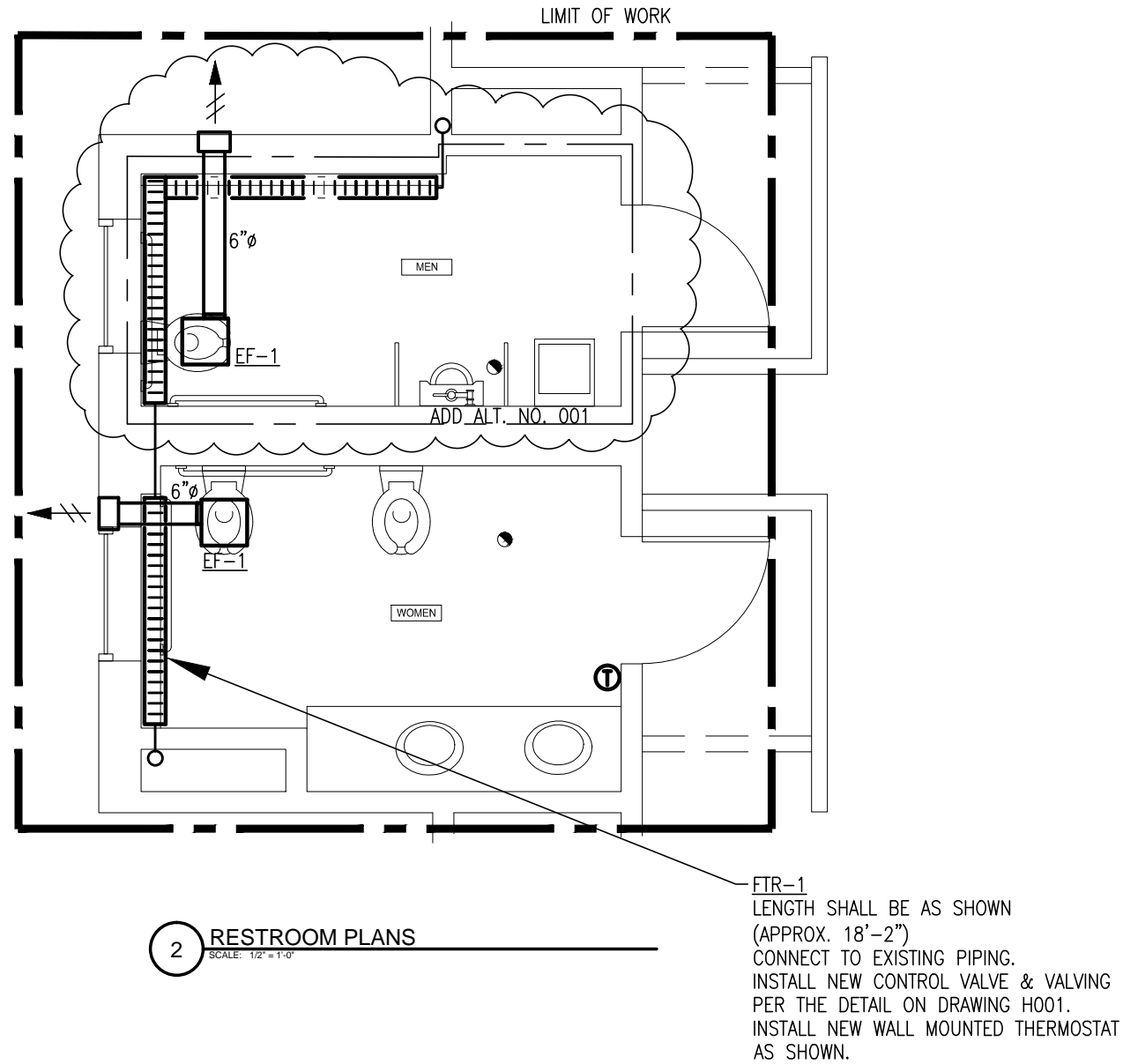
FINNED TUBE RADIATION SCHEDULE									
TAG No.	MANUFACTURER (AS STANDARD)	MODEL No. (AS STANDARD)	TYPE	TUBE SIZE (IN.)	FINS/FT	FIN THICKNESS (IN.)	RATING BTU/FT	LENGTH	REMARKS
FTR-1	STERLING	LB2	C/AL	3/4"	50	0.011	770 @180° EWT (1 GPM)	VARIES	PROVIDE ENCLOSURE, MOUNTING BRACKETS

PIPING SCHEDULE				
SERVICE	LOCATION	PIPING	FITTINGS	JOINTS
HYDRONIC HEATING 2-1/2" AND SMALLER	ABOVE GROUND	TYPE "L" SEAMLESS COPPER TUBING	WROUGHT COPPER, PRESSURE FITTING	MECHANICAL CONNECTION OR SWEAT SOLDER

INSULATION SCHEDULE						
LOCATION	INSULATION TYPE	FITTING INSULATION TYPE	FOR PIPE DIA. (INCHES)			
			RUNOUTS	MAINS ≤ 1"	1 1/4"-1 1/2"	2"-6"
HEATING HOT WATER PIPING HWS. & HWR	FIBERGLASS WITH ALL SERVICE JACKET	FIBERGLASS WITH PVC JACKET	1-1/2"	1 1/2"	1 1/2"	2"



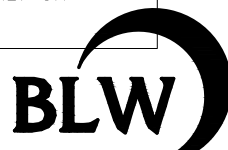
1 HVAC - First Floor Part Plan Demolition Plan
SCALE: 1/4"= 1'-0"



2 HVAC - First Floor Part Plan New Work Plan
SCALE: 1/4"= 1'-0"

ADD ALTERNATE NO. 001

THE MECHANICAL CONTRACTOR SHALL PROVIDE AN ADD ALTERNATE COST TO PROVIDE THE HVAC SYSTEM AS SHOWN IN THE MEN'S RESTROOMS ONLY ON THIS DRAWING.



BLW Engineers, Inc.

311 Great Road, Post Office Box 1551
Littleton, Massachusetts 01460
T: 978.486.4301 F: 978.428.0067
www.blwengineers.com

HVAC * ELECTRICAL * PLUMBING * FIRE PROTECTION

30 YEARS

CBI CONSULTING INC.

250 DORCHESTER AVENUE
BOSTON, MA 02127

P: (617) 268-8977
F: (617) 464-2971

cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF
SOMERVILLE
CROSS STREET
SENIOR CENTER
RENOVATIONS



CAPITAL PROJECTS AND
PLANNING DEPARTMENT
ONE FRANEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

HVAC
PART PLANS,
LEGEND, SCHEDULES
& DETAILS

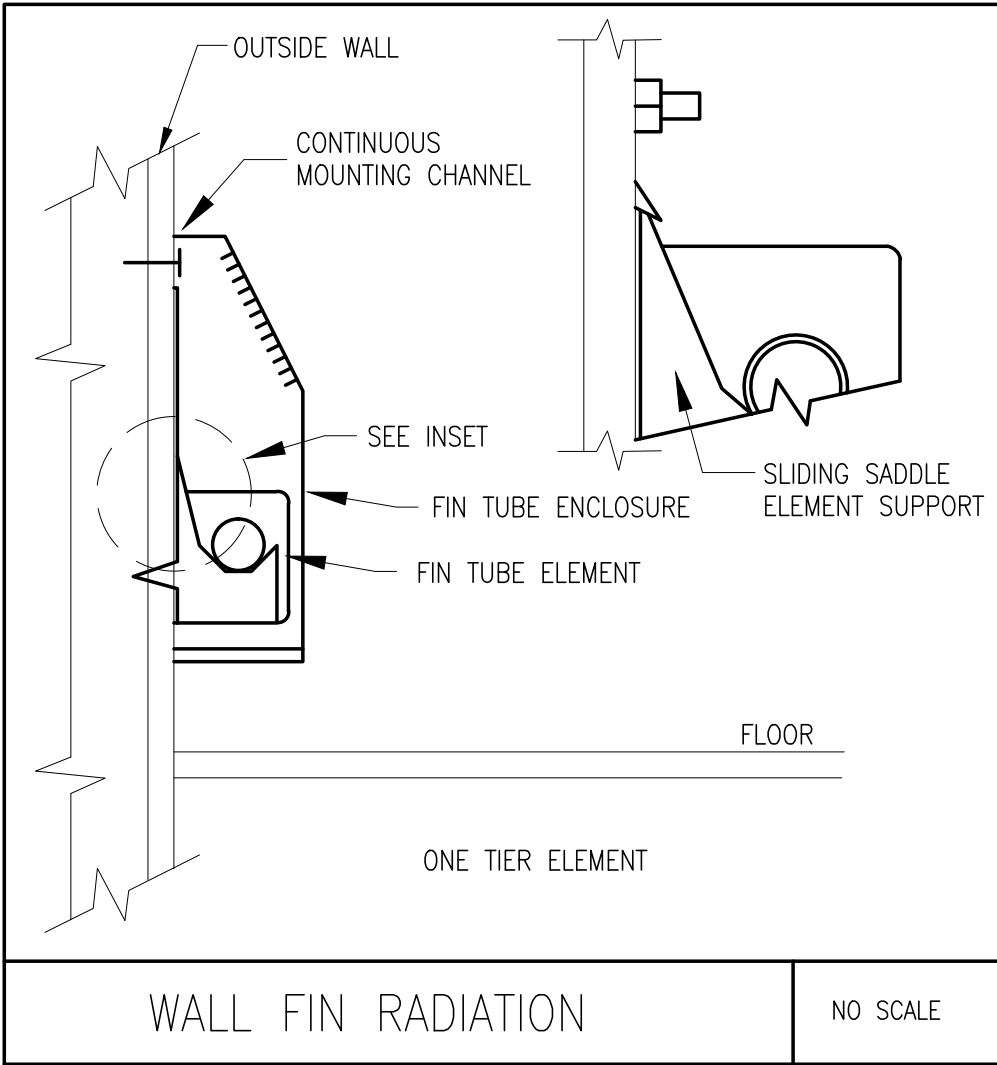
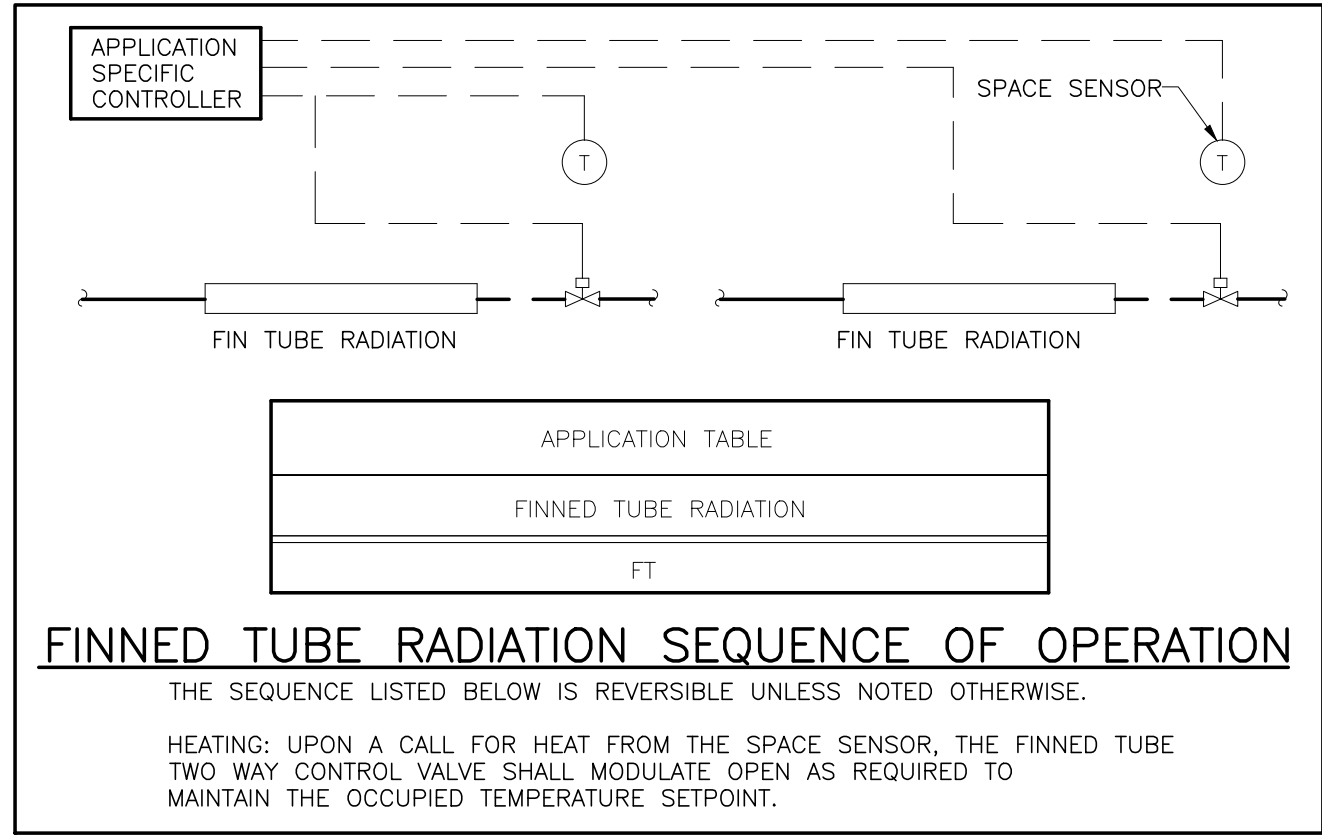
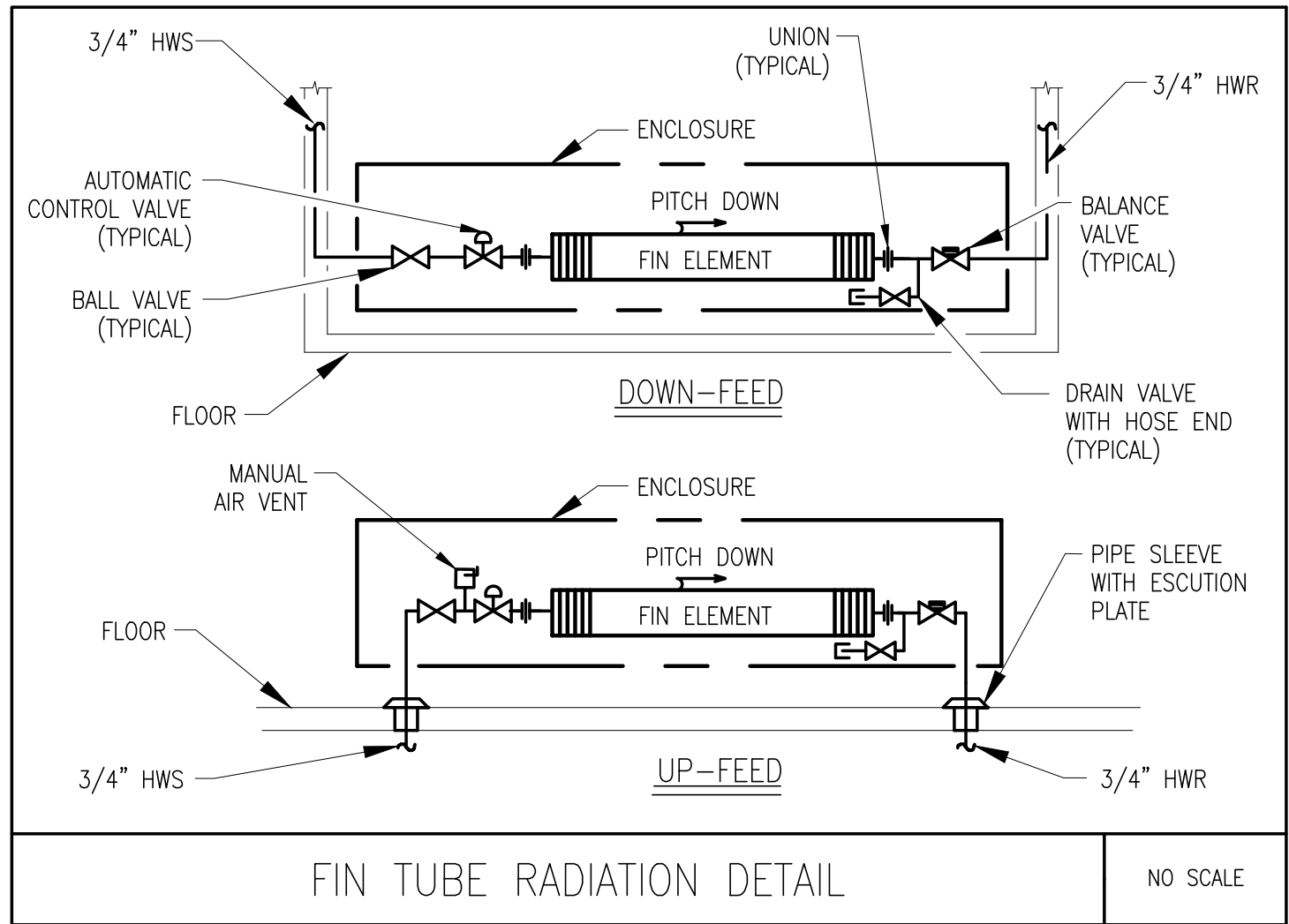
Revisions:

Submission:

BIDDING
DOCUMENTS

Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: CMF
Scale: AS NOTED

H100

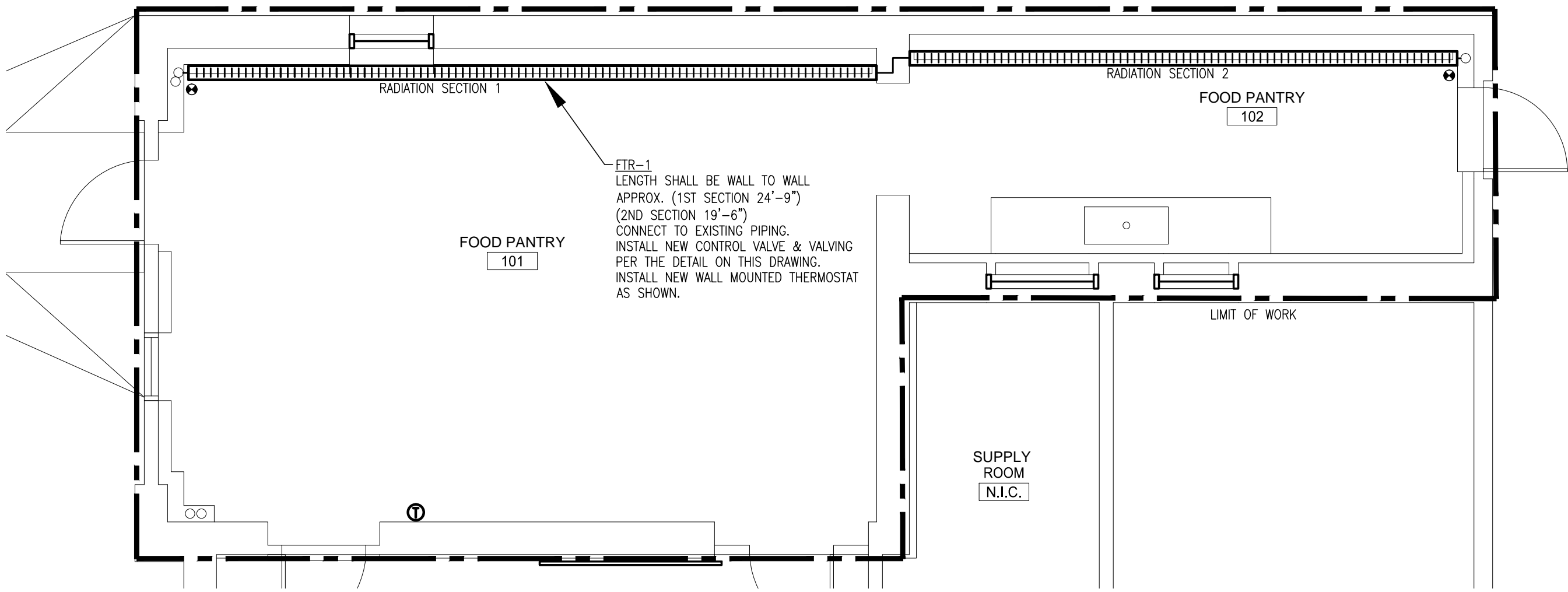
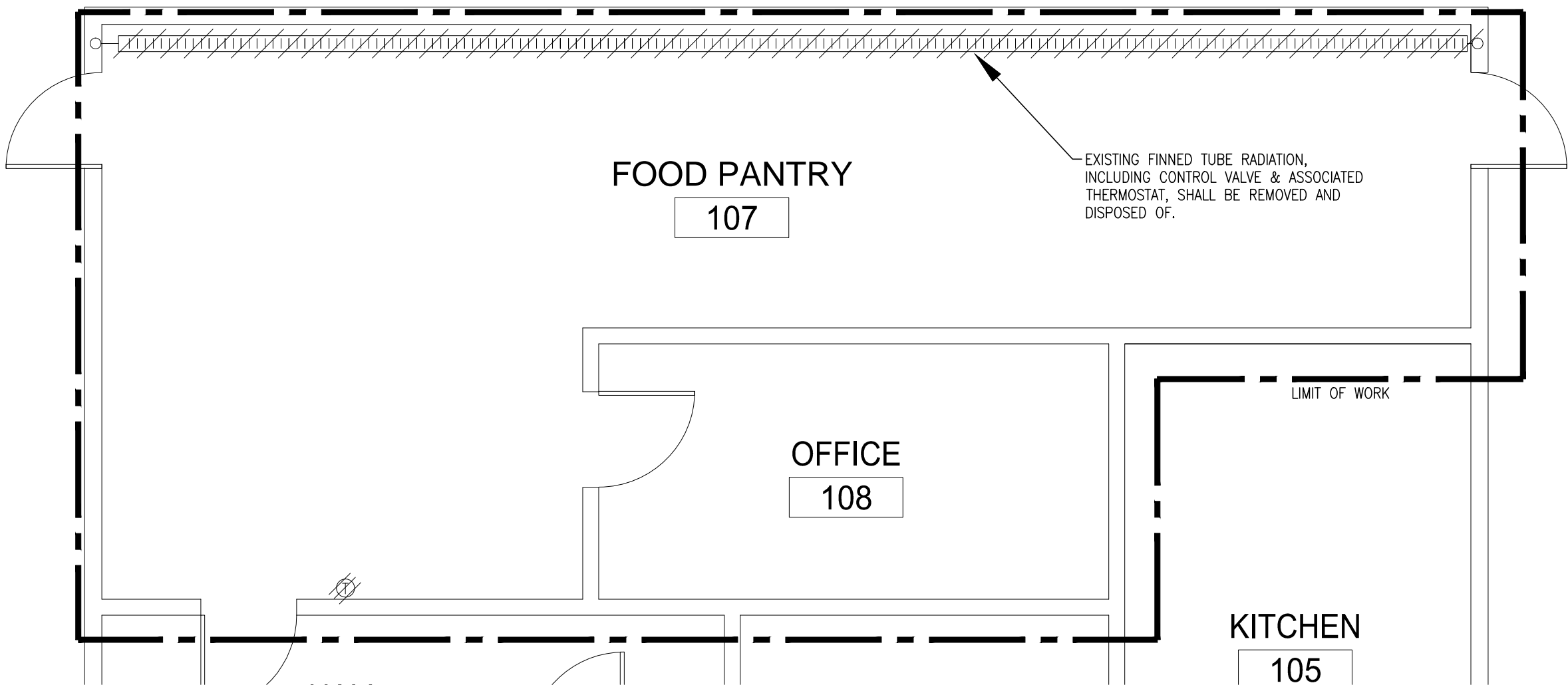


ABBREVIATIONS	DRAWING NOTES	GENERAL NOTES	DEMOLITION GENERAL NOTES
ATC AUTOMATIC TEMP. CONTROL BTUH BRITISH THERMAL UNIT PER HR. DB DRY BULB TEMPERATURE (°F) DWG DRAWING EAT ENTERING AIR TEMPERATURE EC ELECTRICAL CONTRACTOR EWT ENTERING WATER TEMPERATURE GC GENERAL CONTRACTOR GPM GALLONS PER MINUTE HP HORSE POWER HVAC HEATING, VENTILATION AND AIR CONDITIONING LWT LEAVING WATER TEMPERATURE MBH THOUSANDS OF BRITISH THERMAL UNITS PER HOUR NTS NOT TO SCALE PD PRESSURE DROP	ACCU-1 EQUIPMENT DESIGNATION Δ DRAWING REVISION NOTE ① DRAWING WORK NOTE ☁ CONNECT TO EXISTING REVISION CLOUD EQUIPMENT TAGS FTR FINNED TUBE RADIATION	1. MECHANICAL WORK INDICATED IS DIAGRAMMATIC. EXACT LOCATIONS OF ALL COMPONENTS ARE TO BE DETERMINED IN THE FIELD TO AVOID CONFLICT WITH OTHER TRADES AND EXISTING SITE CONDITIONS. 2. ALL INSTALLATIONS SHALL PERMIT AND PROVIDE ACCESSIBILITY FOR SERVICE AND REPLACEMENT OF ALL NEW EQUIPMENT IMPACTED BY THIS WORK. 3. ALL MECHANICAL EQUIPMENT AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF GOVERNING LOCAL, STATE, AND FEDERAL SEISMIC CODES. PARTICULAR ATTENTION SHALL BE MADE TO VIBRATION ISOLATION, ANCHORING, AND BALANCING REQUIREMENTS. 4. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED ON THIS PROJECT. 5. OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES RELATED TO SAME. 6. PROVIDE ALL NECESSARY EQUIPMENT AND SUPPORTS AS WELL AS ANY ADDITIONAL EQUIPMENT, ETC. NOT SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS BUT NECESSARY TO PROVIDE COMPLETE AND WORKABLE SYSTEMS. 7. PROVIDE ACCESS TO ALL EQUIPMENT REQUIRING PERIODIC SERVICE AND MAINTENANCE. 8. ALL EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.	1. PRIOR TO COMMENCING WORK OF THIS SECTION, EXAMINE SITE AND CONDITIONS UNDER WHICH WORK WILL BE PERFORMED. DETERMINE EXACT LOCATIONS OF EXISTING EQUIPMENT, PIPING AND CONTROLS. REPORT TO OWNER ANY CONDITIONS THAT MIGHT ADVERSELY AFFECT WORK. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS AND PREPARATORY WORK. 2. COMPLY WITH ALL STATE AND LOCAL CODES AS TO REMOVAL AND DISPOSAL OF EQUIPMENT REMOVED FROM THE SITE. 3. COMPLY WITH GOVERNING EPA NOTIFICATION REGULATIONS BEFORE BEGINNING SELECTIVE DEMOLITION. 4. COMPLY WITH HAULING AND DISPOSAL REGULATIONS OF AUTHORITIES HAVING JURISDICTION. 5. COMPLY WITH ANSI A10.6 AND NFPA 241. 6. PERMITS: GIVE ALL REQUIRED NOTICES. FILE ALL REQUIRED PLANS AND SPECIFICATIONS RELATING TO THE WORK OF THIS SECTION WITH THE PROPER AUTHORITIES AND PAY FOR ANY REQUIRED PERMITS. 7. STORAGE OR SALE OF REMOVED ITEMS OR MATERIALS ON-SITE IS NOT PERMITTED.

FINNED TUBE RADIATION SCHEDULE									
TAG No.	MANUFACTURER (AS STANDARD)	MODEL No. (AS STANDARD)	TYPE	TUBE SIZE (IN.)	FINS/FT	FIN THICKNESS (IN.)	RATING BTU/FT	LENGTH	REMARKS
FTR-1	STERLING	LB2	C/AL	3/4"	50	0.011	770 @180° EWT (1 GPM)	VARIES	PROVIDE ENCLOSURE, MOUNTING BRACKETS

PIPING SCHEDULE				
SERVICE	LOCATION	PIPING	FITTINGS	JOINTS
HYDRONIC HEATING 2-1/2" AND SMALLER	ABOVE GROUND	TYPE "L" SEAMLESS COPPER TUBING	WROUGHT COPPER, PRESSURE FITTING	MECHANICAL CONNECTION OR SWEAT SOLDER

INSULATION SCHEDULE							
LOCATION	INSULATION TYPE	FITTING INSULATION TYPE	FOR PIPE DIA. (INCHES)				
			RUNOUTS	MAINS ≤ 1"	1 1/4"-1 1/2"	2"-6"	
				INSULATION WALL THICKNESS (INCHES)			
HEATING HOT WATER PIPING HWS & HWR	FIBERGLASS WITH ALL SERVICE JACKET	FIBERGLASS WITH PVC JACKET	1-1/2"	1 1/2"	1 1/2"	2"	



BLW
BLW Engineers, Inc.
 311 Great Road, Post Office Box 1551
 Littleton, Massachusetts 01460
 T: 978.486.4301 F: 978.428.0067
 www.blwengineers.com

HVAC * ELECTRICAL * PLUMBING * FIRE PROTECTION



250 DORCHESTER AVENUE
 BOSTON, MA 02127

P: (617) 268-8977
 F: (617) 464-2971

cbi@cbiconsultinginc.com
 www.cbiconsultinginc.com

**CITY OF
 SOMERVILLE
 CROSS STREET
 SENIOR CENTER
 RENOVATIONS**



**CAPITAL PROJECTS AND
 PLANNING DEPARTMENT**
 ONE FRANEY ROAD
 SOMERVILLE, MA 02145

Drawing Title:

**HVAC
 FIRST FLOOR PLANS**

Revisions:

Submission:

**BIDDING
 DOCUMENTS**

Date: 07/29/16
 Project Number: 15036-C
 Project Manager: AMW
 Drawn By: CMF
 Scale: AS NOTED

H101

GENERAL SPECIFICATIONS

- CONDITIONS OF THE CONTRACT AND DIVISION 1, GENERAL REQUIREMENTS APPLY TO WORK SHOWN ON THESE DRAWINGS. EXAMINE DRAWINGS AND OTHER SPECIFICATIONS FOR REQUIREMENTS THAT AFFECT WORK SHOWN ON THESE DRAWINGS.
- PROVIDE ITEMS REFERRED TO IN SINGULAR NUMBER IN CONTRACT DOCUMENTS IN QUANTITIES NECESSARY TO COMPLETE WORK.
- VISIT SITE AND EXAMINE CONDITIONS UNDER WHICH WORK MUST BE PERFORMED. REPORT ADVERSE CONDITIONS IN WRITING TO ARCHITECT. COMMENCEMENT OF WORK SHALL BE CONSTRUED AS COMPLETE ACCEPTANCE OF EXISTING CONDITIONS INCLUDING PREPARATORY WORK DONE BY OTHERS.
- PERFORM WORK AND PROVIDE MATERIALS AND EQUIPMENT AS SHOWN ON DRAWINGS. COORDINATE ELECTRICAL WORK WITH WORK SHOWN ON THESE DRAWINGS.
- GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION.
- PERFORM WORK AS REQUIRED BY CODES, REGULATIONS AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES WITH LAMP/L JURISDICTION.
- MATERIAL AND EQUIPMENT SHALL BE UL, NEMA, ANSI, IEEE, ADA & CBM APPROVED FOR INTENDED SERVICE. MATERIAL AND INSTALLATION SHALL MEET REQUIREMENTS OF NATIONAL AND STATE ELECTRICAL CODE.
- MAINTAIN RECORD DRAWINGS ON SITE. RECORD SET MUST BE COMPLETE, CURRENT AND AVAILABLE FOR INSPECTION WHEN REQUESTIONS FOR PAYMENT ARE SUBMITTED.
- GUARANTEE WORK IN WRITING FOR ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. REPAIR OR REPLACE DEFECTIVE MATERIALS OR INSTALLATION AT NO COST TO OWNER. CORRECT DAMAGE CAUSED IN MAKING NECESSARY REPAIRS AND REPLACEMENTS UNDER GUARANTEE AT NO COST TO OWNER.
- SUBMIT GUARANTEE TO ARCHITECT BEFORE FINAL PAYMENT. STATEMENT OF GUARANTEE REQUIREMENTS SHALL NOT BE INTERPRETED TO LIMIT OWNER'S RIGHTS UNDER LAW AND THIS CONTRACT.
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. PROVIDE INFORMATION AND COMPONENTS SHOWN ON RISER DIAGRAMS BUT NOT SHOWN ON PLANS, AND VICE VERSA, AS IF EXPRESSLY REQUIRED ON BOTH.
- UTILIZE MOLDED CASE CIRCUIT BREAKERS. MINIMUM INTERRUPTING CAPACITY SHALL BE 10,000 AMPS SYMMETRICAL AT 240 VOLTS, AND 14,000 AMPS SYMMETRICAL AT 480 VOLTS.
- ADDRESS QUESTIONS REGARDING DRAWINGS TO ARCHITECT IN WRITING BEFORE AWARD OF CONTRACT. OTHERWISE, ARCHITECT INTERPRETATION OF MEANING AND INTENT OF DRAWINGS SHALL BE FINAL.
- SUBMIT SHOP DRAWINGS AND PRODUCT DATA WITHIN THIRTY (30) DAYS AFTER AWARD OF CONTRACT. CHECK, STAMP AND MARK WITH PROJECT NAMES SUBMITTALS BEFORE TRANSMITTING TO ARCHITECT. INDICATE DEVIATIONS FROM CONTRACT DOCUMENTS. SHOP DRAWINGS SHALL BE PROVIDED FOR ALL EQUIPMENT SHOWN ON THE DRAWINGS. PROVIDE SHOP DRAWINGS ON LIGHTING, PANELBOARDS, CIRCUIT BREAKERS, CONDUIT, WIRING DEVICES, LIGHTING CONTROL DEVICES, CABLE AND CONDUCTORS, FIRE ALARM INCLUDING BATTERY CALCULATIONS, RISER DIAGRAM, EQUIPMENT CUTS AND DISCONNECTS.
- DEVIATION FROM CONTRACT DOCUMENTS, OR PROPOSED SUBSTITUTION OF MATERIALS OR EQUIPMENT FOR THOSE SPECIFIED, SHALL BE REQUESTED IN SEPARATE LETTER, WHETHER DEVIATIONS ARE DUE TO FIELD CONDITIONS, STANDARD SHOP PRACTICE, OR OTHER CAUSE.
- SUBSTITUTIONS FOR SCHEDULED LIGHTING EQUIPMENT WILL BE REJECTED UNLESS SUBSTITUTION SUBMITTAL IS RECEIVED WITHIN TEN (10) DAYS AFTER CONTRACT AWARD.
- SCHEDULE AT LEAST TEN (10) WORKING DAYS, EXCLUSIVE ON TRANSMITTAL TIME FOR SUBMITTAL REVIEW.
- ALL WIRING SHALL BE RUN CONCEALED UNLESS SPECIFIED OTHERWISE.
- ALL EQUIPMENT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, RECTILINEAR TO BUILDING STRUCTURE.
- ALL COMPONENTS SHOWN ON THE RISER DIAGRAMS, BUT NOT ON THE PLAN OR VICE VERSA, SHALL BE INCLUDED AS IF SHOWN ON BOTH.
- LOCATION OF MECHANICAL EQUIPMENT THAT REQUIRE ELECTRICAL CONNECTIONS ARE SHOWN ON THE MECHANICAL DRAWINGS.
- ALL RACEWAY RUNNING THROUGH BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS.
- CONDUIT HOMERUNS SHOWN ON THE DRAWINGS WITH MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS ARE SHOWN DIAGRAMMATICALLY. THE CONTRACTOR SHALL NOT INSTALL MORE THAN THREE (3) CURRENT CARRYING CONDUCTORS IN A RACEWAY UNLESS DONE SO STRICTLY BY THE NATIONAL ELECTRICAL CODE AS AMENDED BY THE STATE.
- THE ELECTRICAL CONTRACTOR SHALL CONSULT AND COOPERATE WITH CONTRACTORS OF OTHER TRADES TO AVOID ANY INTERFERENCE IN THE INSTALLATION OF THEIR RESPECTIVE EQUIPMENT. CONTRACTOR SHALL REVIEW ALL TRADES' CONTRACT DOCUMENTS TO DETERMINE SPECIFIC MOUNTING LOCATIONS FOR ELECTRICAL EQUIPMENT. COORDINATE EXACT MOUNTING LOCATIONS WITH THE ARCHITECT
- BRANCH CIRCUIT WIRING MAY NOT BE SHOWN GRAPHICALLY ON DRAWINGS AND MAY BE INDICATED BY CIRCUIT NUMBERS BESIDE FIXTURES, DEVICES AND EQUIPMENT. PROVIDE COMPLETE WIRING SYSTEM WHETHER OR NOT INDICATED GRAPHICALLY. PHASE BALANCE ALL PANELBOARDS IN FIELD. CIRCUIT NUMBERS ARE DIAGRAMMATIC, UTILIZE AVAILABLE SPACE OR PROVIDE ADDITIONAL BREAKERS AND PANELBOARDS AS NECESSARY.
- ALL NEW WIRING SHALL BE TYPE THHN/THWN RATED 75-90°C, 600V. WET-DRY LOCATIONS. MINIMUM BRANCH CIRCUIT WIRING SHALL BE NO. 12 AWG SOLID COPPER. BRANCH CIRCUITS LONGER THAN 75 FEET FOR 120 VOLTS SHALL BE AT LEAST NO. 10 AWG FROM PANEL TO LAST OUTLET.
- ALL NEW EXPOSED INTERIOR WIRING ABOVE 8'-0" NOT EXPOSED TO DAMAGE SHALL BE INSTALLED IN ELECTRIC METALLIC TUBING. ALL WIRING IN CONCRETE SLABS OR EXPOSED IN ROOM BELOW 8'-0" OR EXPOSED TO DAMAGE SHALL BE INSTALLED IN RIGID STEEL CONDUIT. EXTERIOR WIRING SHALL BE IN GALVANIZED RIGID METALLIC CONDUIT.
- ALL GROUNDING SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AS AMENDED BY THE STATE OF MASSACHUSETTS.
- ALL FIREPROOFING FOR ELECTRICAL PENETRATIONS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- SYSTEM FEEDERS AND BRANCH CIRCUITS THAT PASS THROUGH ALTERED AREAS AND SERVE OTHER AREAS SHALL BE MAINTAINED.
- PROVIDE NEW TYPED IDENTIFICATION DIRECTORY IN PANELBOARDS INDICATING CIRCUIT FUNCTION OR EQUIPMENT SERVED. LABEL ALL ELECTRICAL PANELS, DISCONNECT SWITCHES AND OTHER EQUIPMENT WITH ENGRAVED VINYL PLATES. NAMEPLATE LETTERING SHALL BE 1/4" MINIMUM.
- PANELBOARDS SHALL BE DOOR-IN-DOOR CONSTRUCTION WITH COPPER BUS. CIRCUIT BREAKERS SHALL BE THERMAL-MAGNETIC, BOLT-ON. PANELBOARDS AND BREAKERS SHALL BE CUTLER HAMMER, SQUARE 'D', G.E. OR SIEMENS. PROVIDE TYPE IDENTIFICATION DIRECTORY CARDS IN PANELBOARD INDICATING CIRCUIT FUNCTION OR EQUIPMENT SERVED.
- DISCONNECT SWITCHES SHALL BE HEAVY DUTY (HD), SIDE OPERATED WITH INTERLOCKING COVER, G.E., SQUARE 'D', CUTLER HAMMER OR SIEMENS OR EQUAL.
- ALL WIRING (LOW VOLTAGE, TEL/DATA, FIRE ALARM, POWER BRANCH CIRCUIT) SHALL BE PLENUM RATED; NO EXCEPTIONS. NON-PLENUM RATED CABLES OF ANY KIND SHALL NOT BE PROVIDED.

POWER NOTES

- ALL CONDUIT, WIRING AND ELECTRICAL EQUIPMENT SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST STANDARDS OF THE NATIONAL & STATE ELECTRICAL CODES AND ANY APPLICABLE LOCAL REGULATIONS.
- ALL CONDUITS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATION AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD, EXCEPT WHERE SPECIFIC DIMENSIONS AND DETAILS ARE SHOWN. ALL CONDUIT RUNS SHALL BE RIGIDLY SUPPORTED.
- NO CONDUIT SMALLER THAN 3/4" INCH ELECTRICAL TRADE SIZE SHALL BE USED, UNLESS SPECIFICALLY CALLED FOR ON THE DRAWINGS.
- PERFORM WORK AND PROVIDE MATERIALS AND EQUIPMENT TO MAKE INSTALLATION COMPLETE IN EVERY DETAIL UNDER THIS CONTRACT WHETHER OR NOT SPECIFICALLY SHOWN ON DRAWINGS.
- WIRING DEVICES SHALL BE SPECIFICATION GRADE, 20 AMP, WITH SMOOTH NYLON DEVICE PLATES AS MANUFACTURED BY HUBBELL, OR EQUAL. COLOR TO MATCH EXISTING OR AS APPROVED BY ARCHITECT.
- CONDUCTORS AND CABLE SHALL BE MINIMUM #12 AWG, 600 VOLT, COPPER WITH TYPE THHN/THWN INSULATION. PROVIDE SEPARATE GREEN GROUND IN ALL FEEDERS. WIRE SIZE #8 AWG AND LARGER SHALL BE STRANDED, #10 AWG AND SMALLER SHALL BE SOLID. COLOR CODE CONDUCTORS BLACK, RED, BLUE, WITH WHITE NEUTRAL AND GREEN GROUND EXCEPT AS NOTED FOR 120 VOLT.
- MOUNTING HEIGHTS OF ELECTRICAL EQUIPMENT SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
 - CONVENIENCE RECEPTACLE (GENERAL), 1'-6" FROM FLOOR TO CENTERLINE.
 - CONVENIENCE RECEPTACLE (OFFICE), 1'-6" FROM FLOOR TO CENTERLINE.
 - TELEPHONE OUTLETS, 1'-6" FROM FLOOR TO CENTERLINE.
- PROVIDE SEPARATE HOT, GROUND AND NEUTRAL CONDUCTOR FOR ALL CIRCUITS CONNECTED TO ARC-FAULT CIRCUIT BREAKERS.

EXISTING EQUIPMENT DESIGNATIONS

- | | |
|----|--|
| X | EXISTING TO BE REMOVED. REMOVE ALL ASSOCIATED CONDUIT AND CONDUCTORS. |
| XM | EXISTING TO REMAIN. |
| XN | EXISTING EQUIPMENT TO BE REPLACED WITH NEW. CONNECT NEW EQUIPMENT TO EXISTING CIRCUIT. |
| XR | EXISTING EQUIPMENT TO BE RELOCATED. JUNCTION AND EXTEND EXISTING CONDUIT AND CONDUCTORS. |
| XL | NEW LOCATION FOR EXISTING EQUIPMENT. JUNCTION AND EXTEND CONDUIT AND CONDUCTORS AS REQUIRED. |

GENERAL NOTES

- REFER TO ARCHITECTURAL PLANS AND ELEVATIONS FOR MOUNTING HEIGHTS AND EXACT LOCATIONS OF ALL DEVICES.
- ALL FLOOR, MASONRY WALLS AND STRUCTURAL CEILING PENETRATIONS SHALL BE SLEEVED.
- PROVIDE FIRE/MOISTURE SEAL FOR WALL, FLOOR OR CEILING PENETRATIONS.
- DO NOT LAY CABLES OR RACEWAY ON, OR SUPPORT FROM SUSPENDED CEILING OR PIPING AND DUCTWORK.
- OUTLET BOXES SHALL BE MOUNTED FLUSH. CONDUIT SHALL BE RUN CONCEALED. WHERE WALLS ARE BLOCK, DEVICES AND WIRING SHALL BE SURFACE MOUNTED. PROVIDE WIREMOLD OR EQUAL TO SURFACE MOUNTED RACEWAY WITH FINISHED BOXES.
- ALL WIRING WITHIN UTILITY CLOSETS MAY BE IN SURFACE MOUNTED CONDUIT. EMT MAY BE UTILIZED.
- FLEXIBLE CONDUIT CONNECTIONS SHALL BE A MAXIMUM OF 6'-0".
- MC TYPE CONDUCTOR WITH INTEGRAL GROUND WIRE MAY BE UTILIZED FOR POWER AND LIGHTING CIRCUITS. MC CABLE SHALL BE UTILIZED ONLY WHERE COMPLETELY CONCEALED.

LIGHTING NOTES

- ALL CONDUIT, FIXTURES AND OUTLETS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATION AND METHOD OF SUPPORT SHALL BE DETERMINED IN THE FIELD, EXCEPT WHERE SPECIFIC DIMENSIONS AND DETAILS ARE SHOWN.
- ALL LIGHTING FIXTURE SPACING DIMENSIONS AND MOUNTING HEIGHTS ARE RECOMMENDED LOCATIONS. SLIGHT VARIATIONS WHERE NECESSARY TO AVOID INTERFERENCE SHALL BE DETERMINED IN THE FIELD.
- MOUNTING HEIGHTS OF ELECTRICAL EQUIPMENT SHALL BE AS FOLLOWS, UNLESS OTHERWISE NOTED:
 - LIGHT SWITCHES, 4'-0" FROM FLOOR TO CENTERLINE.
 - LIGHTING PANELBOARDS, 6'-6" FROM FLOOR TO TOP.
 - LIGHT FIXTURES - SEE LIGHTING FIXTURE SCHEDULE, MOUNTING HEIGHT OF FIXTURE IS MEASURED TO BOTTOM OF REFLECTOR.
- WHERE REQUIRED, ADDITIONAL SUPPORT STEEL FOR THE LIGHTING INSTALLATION SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. SEISMIC RESTRAINTS SHALL BE INCLUDED AS PER STATE BUILDING CODE.
- PROVIDE SEPARATE UN-SWITCHED NEUTRAL TO ALL EMERGENCY LIGHT FIXTURES CONTAINING EMERGENCY BALLASTS.
- FOR RENOVATION PROJECTS, PROVIDE NEW BRANCH CIRCUITRY BETWEEN ALL NEW FIXTURES BEING PROVIDED, UNLESS NOTED OTHERWISE ON DRAWINGS.

FIRE ALARM NOTES

- THE ELECTRICAL CONTRACTOR SHALL COMPLETE A CERTIFICATE CERTIFYING THAT THE SYSTEM HAS BEEN 100 PERCENT TESTED AND FUNCTIONS IN COMPLETE COMPLIANCE WITH THE SYSTEM SPECIFICATIONS AND MANUFACTURER'S RECOMMENDATIONS. THE CERTIFICATE SHALL BE SIGNED BY THE INSTALLER, ELECTRICAL CONTRACTOR AND THE OWNER. AFTER RECEIPT OF THE CERTIFICATION, THE FIRE PREVENTION OFFICER AND/OR THE FIRE ALARM SUPERVISOR WILL CONDUCT AN INSPECTION IN THE COMPANY OF THE INSTALLER AND A REPRESENTATIVE OF THE OWNER WITHIN SCOPE OF WORK PLUS 10% OF EXISTING.
- PULL STATIONS MUST BE OF THE DOUBLE ACTION TYPE. BREAKGLASS RODS WILL NOT BE PERMITTED.
- FIRE ALARM VISUAL DEVICES SHALL BE SYNCHRONIZED.
- ALL WIRING METHODS SHALL BE AS APPROVED BY THE WIRING INSPECTOR AND THE FIRE DEPARTMENT. ALL FIRE ALARM CABLE SHALL BE PLENUM RATED.
- ALL SYSTEM COMPONENTS SHALL BE UL LISTED. IF EXISTING EQUIPMENT IS BEING UTILIZED ALL COMPONENTS MUST BE UL LISTED COMPATIBLE WITH EXISTING.
- ALL WIRING SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, NFPA 72 SERIES PAMPHLETS, AND ALL STATE AND LOCAL CODES.
- THE ELECTRICAL CONTRACTOR MUST OBTAIN AN ELECTRICAL PERMIT FROM THE TOWN BUILDING DEPARTMENT AND A PERMIT FROM THE FIRE DEPARTMENT PRIOR TO COMMENCEMENT OF EQUIPMENT INSTALLATION. A FLOOR PLAN SHOWING ALL ALARM DEVICES, LOCATION OF MASTER BOX, PANELS, ANNUNCIATORS, A ONE-LINE WIRING DIAGRAM AND AN ANNUNCIATOR DETAIL SHOWING ZONE LABELING WILL BE REQUIRED TO BE SUBMITTED BEFORE THE FIRE DEPARTMENT ISSUES A PERMIT.
- INSTALLATION OF EQUIPMENT SHALL BE IN ACCORDANCE WITH CURRENT STANDARDS AND SPECIFICATIONS APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- ALL FIRE ALARM EQUIPMENT, INSTALLATION AND OPERATION SHALL BE IN CONFORMANCE WITH THE LOCAL FIRE DEPARTMENT INSTALLATION REQUIREMENTS AND SYSTEM INSTALLATION GUIDELINES.
- ALL EQUIPMENT SHOWN ON DRAWINGS IS DIAGRAMMATIC.
- THE FIRE ALARM SYSTEM SHOP DRAWINGS SHALL BE REVIEWED AND APPROVED BY BOTH THE ENGINEER AND THE LOCAL FIRE DEPARTMENT. THE SHOP DRAWINGS MUST BE SIGNED OFF BY THE FIRE DEPARTMENT AND ENGINEER PRIOR TO ORDERING AND INSTALLATION OF EQUIPMENT.
- ALL JOINTS AND CONNECTIONS SHALL BE IN JUNCTION BOXES. ALL CONNECTIONS NOT ON APPROVED TERMINAL STRIPS SHALL BE SOLDERED AND TAPED. ALL JUNCTION BOXES SHALL BE PAINTED RED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR THAT ALL CONNECTING WIRING MAINTAIN ELECTRICAL INTEGRITY, WITH NO OPEN CIRCUITS, GROUNDS, LEAKAGE OR OTHER FAULTS. CONNECTION TO THE MUNICIPAL SYSTEM WILL NOT BE PERMITTED IF ANY FAULTS EXIST, AND THE CONTRACTOR HAS THE PERMANENT RESPONSIBILITY FOR THE MAINTENANCE OF ALL SUCH WIRING FOR A ONE-YEAR PERIOD. IF FAULTS DEVELOP AFTER INSTALLATION, CORRECTION MUST BE MADE BY THE CONTRACTOR FOR A PERIOD OF ONE YEAR AFTER THE DATE OF FINAL COMPLETION. THE FIRE DEPARTMENT MAY REQUIRE DISCONNECTION OF THE FIRE ALARM BOX FROM THE MUNICIPAL SYSTEM UNTIL PROPER CONNECTIONS AND/OR REPAIRS ARE MADE. SUCH A DISCONNECTION MAY REQUIRE A FIRE WATCH DURING THAT TIME THE BUILDING IS WITHOUT A MASTER FIRE ALARM BOX AND ALARM SYSTEM. THIS FIRE WATCH WILL BE AT THE FIRE DEPARTMENT'S DIRECTION AND PAYMENT FOR SUCH A WATCH WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL REQUIRED POWER SUPPLIES FOR A COMPLETE AND OPERATIONAL SYSTEM. POWER SUPPLY CALCULATIONS SHALL BE INCLUDED IN FIRE ALARM SUBMITTAL.
- ALL EQUIPMENT SHALL BE MADE AVAILABLE FOR TEST AND INSPECTION WHEN REQUIRED BY THE FIRE DEPARTMENT.
- ALL SYSTEMS SHALL BE DC, SUPERVISED, BATTERY STANDBY FIRE ALARM SYSTEM. A SEPARATE AC CIRCUIT MUST BE PROVIDED FOR THE FIRE ALARM SYSTEM. STANDBY BATTERIES AND THE CHARGING SYSTEM SHALL BE SUPERVISED.
- THE BATTERIES USED WITH THE FIRE ALARM CONTROL PANEL SHALL BE CAPABLE OF OPERATING THE PANEL FOR TWENTY-FOUR (24) HOURS WITH A FIVE (5) MINUTE RING-DOWN AT THE END OF THE TWENTY-FOUR (24) HOUR PERIOD. THE CALCULATION USED TO DETERMINE BATTERY CAPACITY SHALL BE PRESENTED TO THE FIRE DEPARTMENT AT THE TIME OF INSPECTION. PROVIDE ADDITIONAL BATTERIES AND CALCULATIONS WITH SHOP DRAWINGS.
- THE VISUAL INDICATORS OF THE EVACUATION SIGNALS MUST STAY ILLUMINATED UNTIL THE SYSTEM IS RESET.

ABBREVIATIONS



A/AMP	AMPERE	IMC	INTERMEDIATE METALLIC CONDUIT
AC	ALTERNATING CURRENT	JB	JUNCTION BOX
AF	AMPERE FRAME	KVA	KILOVOLT-AMPERE
AFF	ABOVE FINISHED FLOOR	KW	KILOWATT
AFG	ABOVE FINISHED GRADE	LTG	LIGHTING
APC	APRERE INTERRUPTING CAPACITY	PWR	POWER
AL	ALUMINUM	MCB	MAIN CIRCUIT BREAKER
AT	AMPERE TRIP	MCC	MASSACHUSETTS ELECTRICAL CODE
ATS	AUTOMATIC TRANSFER SWITCH	MLO	MAIN LUGS ONLY
AWG	AMERICAN WIRE GAUGE	MTG	MOUNTING
C	CONDUIT	MTD	MOUNTED
CKT	CIRCUIT	MCC	MOTOR CONTROL CENTER
CB	CIRCUIT BREAKER	NEC	NATIONAL ELECTRICAL CODE
CU	COPPER	NS	NON-SYSTEM
DC	DIRECT CURRENT	NTS	NOT TO SCALE
DCE	DUAL ELEMENT	No. #	NUMBER
DWG	DRAWING	PL	PLUMBING CONTRACTOR
EC	ELECTRICAL CONTRACTOR	RPM	REVOLUTIONS PER MINUTE
EMH	ELECTRICAL MANHOLE	RMS	ROOT MEAN SQUARE VALUE
EW	ELECTRIC WATER COOLER	RSG	RIGID STEEL CONDUIT
EMT	ELECTRIC METALLIC CONDUIT	SF	SQUARE FOOT
FLMT	FLEXIBLE LIQUID TIGHT METALLIC TUBING	SN	SOLID NEUTRAL
GC	GENERAL CONTRACTOR	SWBD	SWITCHBOARD
GND	GROUND	TYP	TYPICAL
GFI	GROUND FAULT INTERRUPTING	V	VOLTS
HVAC	HEATING, VENTILATION AND AIR CONDITIONING	VA	VOLT-AMPERE
HP	HORSEPOWER	VP	VARIABLE FREQUENCY DRIVE
		WD	WEATHERPROOF

DEMOLITION NOTES

- REFER TO THE ARCHITECTURAL DRAWINGS FOR THE FULL EXTENT OF THE SCOPE OF DEMOLITION. DISCONNECT AND MAKE SAFE ALL ELECTRICAL EQUIPMENT IDENTIFIED FOR REMOVAL ON THE HVAC, PLUMBING AND FIRE PROTECTION PLANS. THE ELECTRICAL SCOPE MAY EXTEND BEYOND THE AREA DEFINED BY THE ARCHITECTURAL DEMOLITION LIMITS TO FULLY COMPLY WITH VARIOUS REQUIREMENTS DEFINED BY THESE NOTES.
- THE ELECTRICAL DEMOLITION PLANS AND DETAILS INDICATE THE GENERAL INTENT AND ARE NOT INTENDED TO SHOW ALL ITEMS TO BE REMOVED OR RETAINED. THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO THE SUBMISSION OF BIDS TO BECOME FAMILIAR WITH THE ACTUAL CONDITIONS AND EXTENT OF WORK. DEVICES AND EQUIPMENT LOCATED ON WALLS AND/OR CEILINGS TO BE REMOVED SHALL BE DISCONNECTED AND MADE SAFE. THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF ANY UNANTICIPATED HIDDEN CONDITIONS ENCOUNTERED DURING DEMOLITION.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ALL SYSTEMS OR BUILDING COMPONENTS DAMAGED DURING THE EXECUTION OF THE WORK. DAMAGE SHALL INCLUDE BUT NOT BE LIMITED TO DESTRUCTION OR DISPOSAL OF ITEMS INTENDED TO REMAIN OR TO BE SALVAGED.
- THE ELECTRICAL CONTRACTOR SHALL CIRCUIT TRACE AND LABEL ALL EXISTING BRANCH CIRCUITS AND FEEDERS WITHIN THE AREA OF DEMOLITION SCOPE PRIOR TO DE-ENERGIZING AND DISCONNECTION. ALL CIRCUITS WITHIN PANELBOARDS IDENTIFIED FOR REMOVAL SHALL BE TRACED AND LABELED TO ENSURE THAT NO AREA OUTSIDE THE DEMOLITION SCOPE LIMIT IS AFFECTED.
- THE ELECTRICAL CONTRACTOR SHALL IDENTIFY ALL BRANCH CIRCUITS, FEEDERS AND SYSTEM COMPONENTS, WHICH ARE TO REMAIN WITHIN THE AREA OF DEMOLITION SCOPE. THERE SHALL BE NO INTERRUPTION OF SERVICE TO ANY AREA OUTSIDE THE SCOPE LIMITS WITHOUT APPROVAL FROM THE OWNER'S REPRESENTATIVE. EXISTING EQUIPMENT TO REMAIN SHALL BE LEFT IN A CODE COMPLIANT MANNER.
- THE ELECTRICAL CONTRACTOR SHALL DE-ENERGIZE AND REMOVE ALL CONDUCTORS AND RACEWAYS TO THEIR POINTS OF ORIGIN WITHIN THE AREA OF DEMOLITION SCOPE. ITEMS IDENTIFIED FOR DEMOLITION SHALL NOT BE ABANDONED IN PLACE. RACEWAYS THAT ENTER MASONRY WALLS AND FLOORS SHALL BE CUT FLUSH AT THE SURFACE FOR PATCHING BY OTHERS. ALL CIRCUIT BREAKERS ASSOCIATED WITH THE DEMOLITION SCOPE SHALL BE DE-ENERGIZED AND LABELED SPARE.
- THE ELECTRICAL CONTRACTOR SHALL TEMPORARILY SUPPORT ALL ITEMS TO REMAIN THAT ARE AFFECTED BY THE DEMOLITION OF BUILDING STRUCTURAL COMPONENTS (WALLS, CEILINGS, ETC.). TEMPORARILY SUPPORTED ITEMS SHALL BE PERMANENTLY SUPPORTED AND INSTALLED WHEN FINALIZED STRUCTURES ARE IN PLACE.
- ALL REMOVED ITEMS SHALL BE LEGALLY DISPOSED OF UNLESS IDENTIFIED FOR REUSE. THE OWNER'S REPRESENTATIVE SHALL INSPECT ALL RETAINED ITEMS PRIOR TO PLACEMENT IN THE IDENTIFIED STORAGE LOCATION BY THE ELECTRICAL CONTRACTOR.
- THE EXISTING FIRE ALARM SYSTEM SHALL REMAIN FULLY FUNCTIONAL DURING THE ENTIRE DEMOLITION AND CONSTRUCTION PERIOD. REUSE OF EXISTING FIRE ALARM SYSTEM RACEWAYS SHALL NOT BE ALLOWED. ALL REQUIRED SYSTEM SHUTDOWNS SHALL BE COORDINATED WITH AND APPROVED BY THE OWNER'S REPRESENTATIVE AND THE AUTHORITY HAVING JURISDICTION. DEMOLITION OF THE EXISTING SYSTEM SHALL NOT COMMENCE UNTIL THE NEW SYSTEM HAS BEEN COMPLETELY INSTALLED, TESTED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION.
- REMOVED FLUORESCENT AND HID LAMPS AND BATTERIES SHALL BE RECYCLED BY A FACILITY APPROVED BY THE OWNER'S REPRESENTATIVE. A UNIFORM HAZARDOUS WASTE MANIFEST SHALL BE PREPARED FOR ALL DISPOSALS AND RETURNED WITH ALL APPLICABLE SIGN OFF'S PRIOR TO APPLICATION FOR FINAL PAYMENT.
- ALL BALLAST IN LIGHTING FIXTURES TO BE DISPOSED SHALL BE VERIFIED TO BE PCB FREE. ALL BALLAST MANUFACTURED PRIOR TO 1979 AND NOT LABELED EXCEPT PCB FREE SHALL BE CONSIDERED TO CONTAIN PCBs. PROVIDE WRITTEN VERIFICATION TO THE OWNER'S REPRESENTATIVE THAT CONTAINS PCB FREE WASTE. WHERE PCB FREE WASTE CANNOT BE VERIFIED, BALLAST SHALL BE RECYCLED BY A FACILITY APPROVED BY THE OWNER'S REPRESENTATIVE, WITH PCB COMPONENTS ELIMINATED BY A HIGH TEMPERATURE INCINERATION. A UNIFORM HAZARDOUS WASTE MANIFEST SHALL BE PREPARED FOR ALL DISPOSALS AND RETURNED WITH ALL APPLICABLE SIGN OFF'S PRIOR TO APPLICATION FOR FINAL PAYMENT. ALL HANDLING SHALL CONFORM TO EPA REQUIREMENTS. PROVIDE BREAKOUT COST FOR THIS SCOPE.

BRANCH CIRCUIT AND FEEDER SYMBOLS

	BRANCH CIRCUIT OR FEEDER CONCEALED UNLESS OTHERWISE NOTED. BRANCH CIRCUIT DIAGONAL LINES INDICATE NUMBER OR CONDUCTORS, NO DIAGONAL LINES INDICATES TWO (2) CONDUCTORS (1 PHASE AND 1 NEUTRAL). GROUND WIRE(S) NOT INDICATED. MINIMUM SIZE CONDUCTOR #12 AWG AND 3/4" CONDUIT, UNLESS OTHERWISE NOTED
	INDICATES (3) #1 AWG(PHASE), (1)#1 AWG(NEUTRAL), (1) #6 GROUND IN A 1-1/2" CONDUIT
	FLEXIBLE CONNECTION TO MOTOR OR EQUIPMENT
	HOMERUN TO PANELBOARD 'P1' CIRCUIT NUMBER 1. DIAGONAL LINES INDICATE (1) PHASE AND (1) NEUTRAL CONDUCTOR. (1) GROUNDING CONDUCTOR UNDERSTOOD.
	HOMERUN TO PANELBOARD 'P1' CIRCUIT NUMBER 1 & 3. DIAGONAL LINES INDICATE (2) PHASE AND (2) NEUTRAL CONDUCTOR. (2) GROUNDING CONDUCTOR UNDERSTOOD.
	HOMERUN TO PANELBOARD 'P1' CIRCUIT NUMBER 1, 3 & 5. DIAGONAL LINES INDICATE (3) PHASE AND (3) NEUTRAL CONDUCTOR. (3) GROUNDING CONDUCTOR UNDERSTOOD.
	HOMERUN TO PANELBOARD 'P1' CIRCUIT NUMBER 1, 3 & 5. DIAGONAL LINES INDICATE (3) PHASE AND (1) NEUTRAL CONDUCTOR. (1) GROUNDING CONDUCTOR UNDERSTOOD.
	HOMERUN TO PANELBOARD 'P1' CIRCUIT NUMBER 1, 3 & 5. DIAGONAL LINES INDICATE (3) PHASE CONDUCTORS. NEUTRAL CONDUCTOR NOT REQUIRED. (1) GROUNDING CONDUCTOR UNDERSTOOD.

LIGHTING FIXTURE SCHEDULE						
FIXTURE TYPE	DESCRIPTION	MANUFACTURER AND CATALOG NUMBER	LAMPS			VOLTAGE
			No.	WATTAGE	TYPE	
A1	1' X 4' RECESSED LED LENSED FIXTURE **E.C. TO CONFIRM CEILING TYPE FOR HARDWARE PRIOR TO PURCHASE.**	PHILLIPS # HLS14GLR2BL35ULAG	—	—	LED	120V
B1	2' X 4' RECESSED LED FIXTURE **E.C. TO CONFIRM CEILING TYPE FOR HARDWARE PRIOR TO PURCHASE.**	PHILLIPS # HLS24GLR30L35ULAG	—	—	LED	120
C1	EXTERIOR FIXTURE WITH BATTERY BACKUP	RAB LIGHTING # GN1LED13NADB BLACK	—	—	LED	120
D1	SURFACE MOUNTED FIXTURE	KICHLER # 888 OWH	—	—	LED	120
	EMERGENCY BATTERY UNIT —	PHILLIPS # VU6LSD	—	—	LED	120
	COMBINATION EXIT AND EMERGENCY LIGHT UNIT WITH BATTERY BACKUP	PHILLIPS # VCLANRW	—	—	LED	120

PANEL 'PP1', 100AMP, 120/240 VOLT, 1Ø, 3W & GND										
INTERRUPTING CAPACITY 10,000 AMPS RMS SYM					MAIN: 100AMP M.C.B.			MOUNTING: RECESSED		
DESCRIPTION	KVA LOAD #A	#B	CB/ PHASE	CKT. No.	PHASE	CKT. No.	CB/ PHASE	KVA LOAD #A	#B	DESCRIPTION
PANTRY RECEPTACLES	.90		20	1	A	2	20	.54		PANTRY RECEPTACLES
PANTRY LIGHTING		.85	20	3	B	4	20	.72		PANTRY RECEPTACLES
PANTRY RECEPTACLES	1.1		20	5	A	6	20	1.4		
EXISTING LOAD		--	20	7	B	8			1.4	WALK-IN COOLER
EXISTING LOAD	--		20	9	A	10	20	1.4		
EXISTING LOAD		--	20	11	B	12			1.4	WALK-IN FREEZER
EXISTING LOAD	--		20	13	A	14	20	1.2		COOLER/FREEZER LIGHTING AND DOOR HEATER
EXISTING LOAD		--	--	15	B	16	--	--	--	
--	--		--	17	A	18	--	--	--	
--		--	--	19	B	20	--	--	--	
SUB-TOTALS								--	--	

- E.C. SHALL CONNECT EXISTING LOADS BEING UTILIZED FOR AREAS THAT ARE NOT PART OF THIS RENOVATION. JUNCTION AND EXTEND EXISTING CIRCUITRY AS REQUIRED.

HVAC * ELECTRICAL * PLUMBING * FIRE PROTECTION

LIGHTING FIXTURE SYMBOLS

	FLUORESCENT LIGHTING FIXTURE, CEILING/SURFACE/RECESSED/PENDANT OR WALL MOUNTED. "A" DENOTES LIGHTING FIXTURE TYPE (SEE FIXTURE SCHEDULE), "2" DENOTES CIRCUIT NUMBER, "o" DENOTES SWITCH CONTROL
	COMPACT FLUORESCENT LIGHT FIXTURE, CEILING/SURFACE/RECESSED OR PENDANT MOUNTED. "B" DENOTES LIGHTING FIXTURE TYPE, "4" DENOTES CIRCUIT NUMBER, "b" DENOTES SWITCH CONTROL
	EMERGENCY BATTERY UNIT WITH TWO (2) HEADS
	EXIT SIGN, SHADED REGION INDICATES FACE

OCCUPANCY SENSORS

- CEILING MOUNTED OCCUPANCY SENSOR, 360° TWO-SIDED, 1950SF COVERAGE (50' DIAMETER), PHILIPS LIGHTING CONTROLS No. ITSOS (FOR PARTIAL COVERAGE APPLICATIONS, A PROVIDED MASK CAN BE TRIMMED TO ADJUST COVERAGE) OR EQUAL
- COVERAGE DIMENSIONS APPLY TO DEVICE BEING CENTERED. ACTUAL COVERAGE'S CAN VARY ON THE SHAPE AND USE OF APPLICABLE SPACE. COVERAGE MAY BE REDUCED IF DEVICE IS MOUNTED GREATER THAN 12 FEET HIGH. SENSORS REQUIRE RELAY PACKS, PHILIPS LIGHTING CONTROLS No. ITRSP1U (SINGLE CIRCUIT), ITRSP2 (TWO CIRCUIT) OR ITRSP4 (FOUR CIRCUIT).

FIRE ALARM SYSTEM

	AUDIBLE/VISUAL DEVICE, TOP OF DEVICE MOUNTED NOT LESS THAN 90" AFF AND NOT LESS THAN 6" BELOW FINISHED CEILING
	VISUAL DEVICE, ENTIRE LENS MOUNTED NOT LESS THAN 80" AFF AND NOT MORE THAN 96" AFF
	SMOKE DETECTOR, "D" INDICATES DUCT MOUNTED SMOKE DETECTOR, "R" INDICATES ELEVATOR RECALL, "NS" INDICATES NON-SYSTEM
	FIRE ALARM CONTROL PANEL

MOTOR AND CONTROLS

- MOTOR, NUMERAL INDICATES HORSEPOWER

PANELBOARD AND TERMINAL CABINET

- 120/208VOLT LIGHTING OR POWER PANEL, SURFACE MOUNTED

MISCELLANEOUS

- MECHANICAL EQUIPMENT TAG, REFER TO MECHANICAL SCHEDULE

RECEPTACLES AND OUTLETS

- DUPLEX CONVENIENCE RECEPTACLE OUTLET, GROUNDING TYPE, RATED 20A, 125V TYPE. "5" DENOTES CIRCUIT NUMBER, MOUNTING HEIGHT 18" TO CENTERLINE AFF
- GROUND FAULT INTERRUPTING OUTLET, RATED 20A, 125V RECEPTACLE, MOUNTING HEIGHT 18" TO CENTERLINE AFF
- JUNCTION BOX, COORDINATE MOUNTING HEIGHT WITH ARCHITECT, "F" INDICATES FAN RATED JUNCTION BOX

SWITCHING SYMBOLS

- SINGLE POLE SWITCH, RATED 20A, 120/277V, MOUNTING HEIGHT 48" TO CENTERLINE OF TOGGLE SWITCH IN "ON" POSITION, "o" DENOTES FIXTURE SWITCH CONTROL
- MANUAL MOTOR STARTER, RATED 20A, 250V, COORDINATE MOUNTING HEIGHT IN FIELD, MOUNTING HEIGHT SHALL NOT EXCEED 6'-7" AFF



250 DORCHESTER AVENUE
BOSTON, MA 02127

P: (617) 268-8977
F: (617) 464-2971

cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

CITY OF
SOMERVILLE
CROSS STREET
SENIOR CENTER
RENOVATIONS



CAPITAL PROJECTS AND
PLANNING DEPARTMENT
ONE FRANEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

LEGEND AND
NOTES

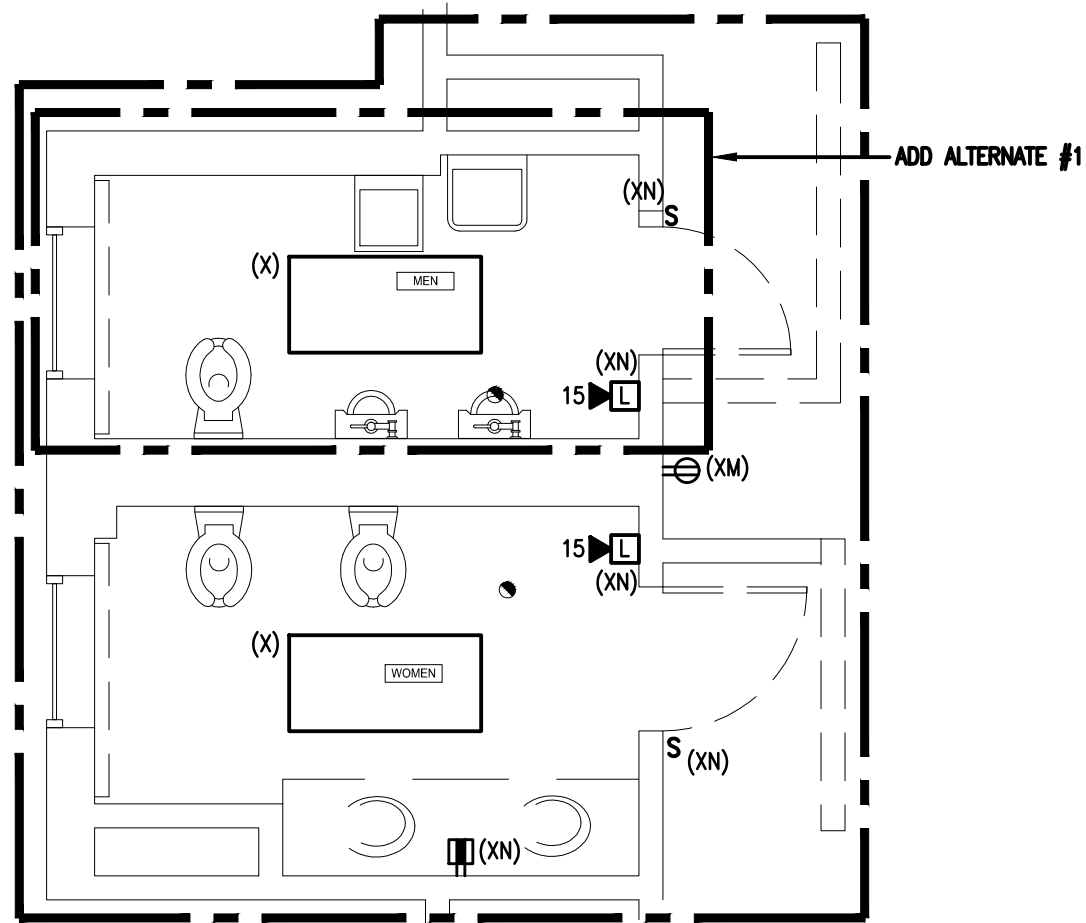
Revisions:

Submission:

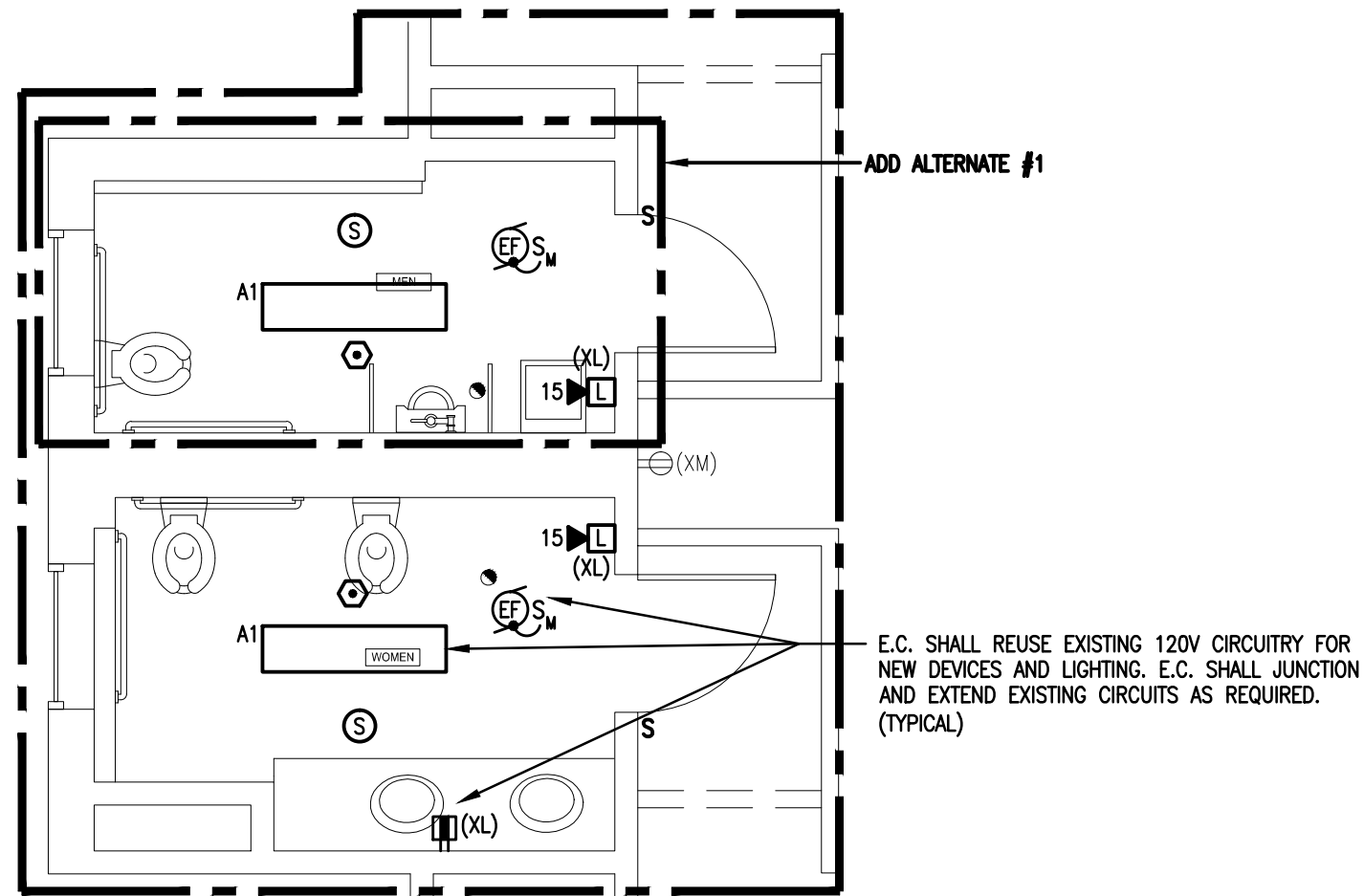
BIDDING
DOCUMENTS

Date: 07/29/16
Project Number: 15038-C
Project Manager: AMW
Drawn By: CMF
Scale: AS NOTED

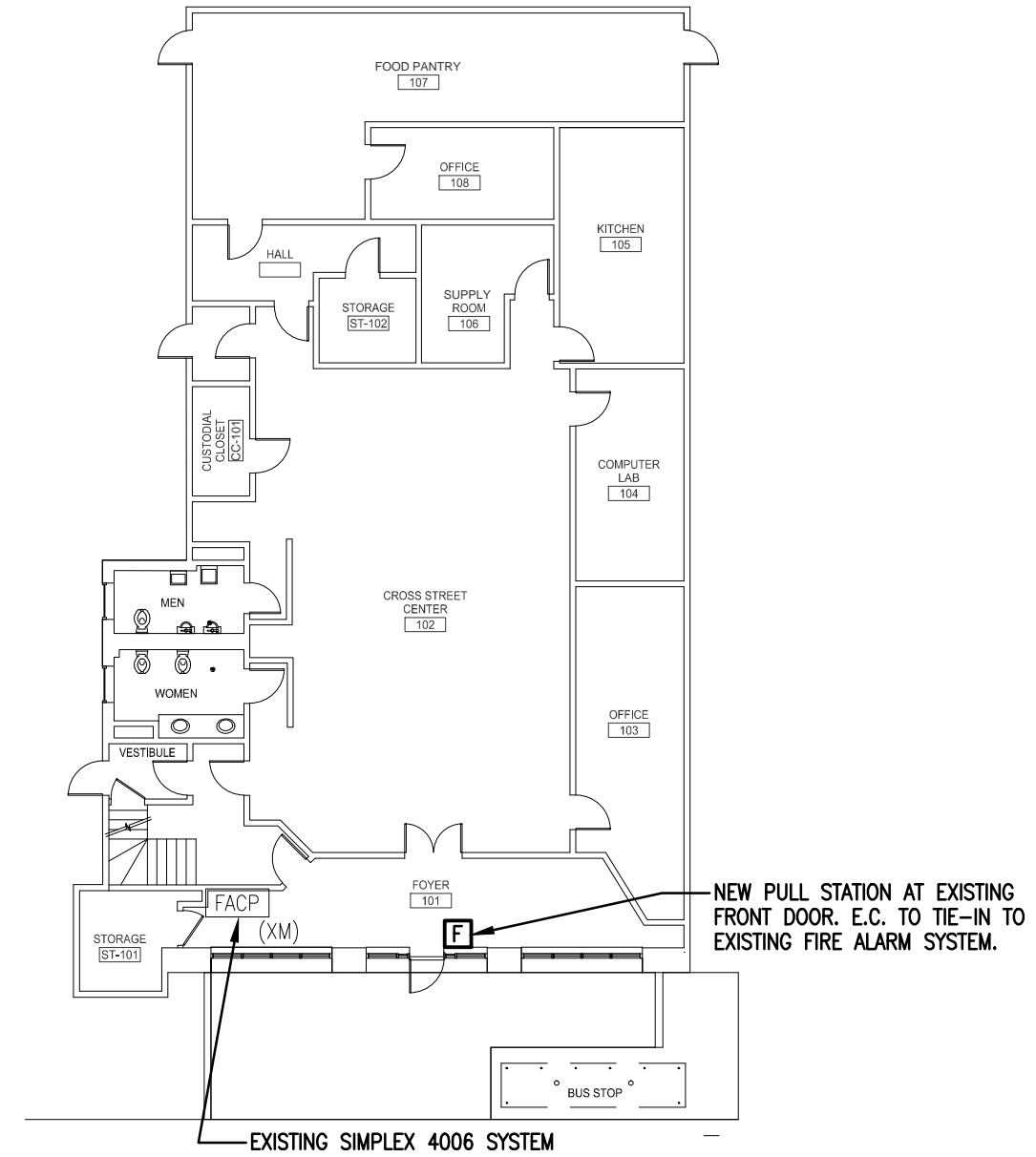
E001



1 ELECTRICAL - First Floor Bathroom Demolition Plan
SCALE: 1/4"= 1'-0"



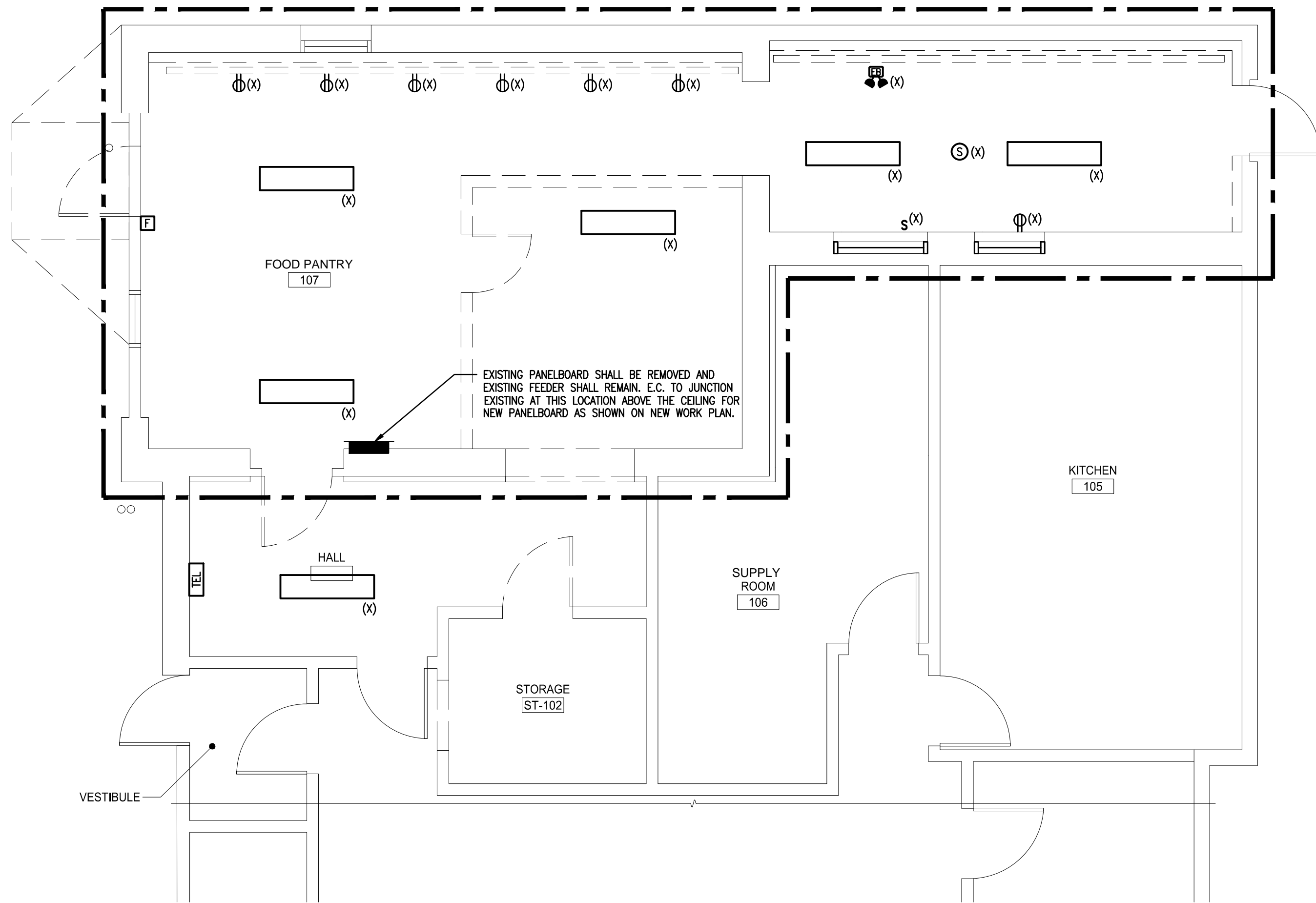
2 ELECTRICAL - First Floor Bathroom New Work Plan
SCALE: 1/4"= 1'-0"



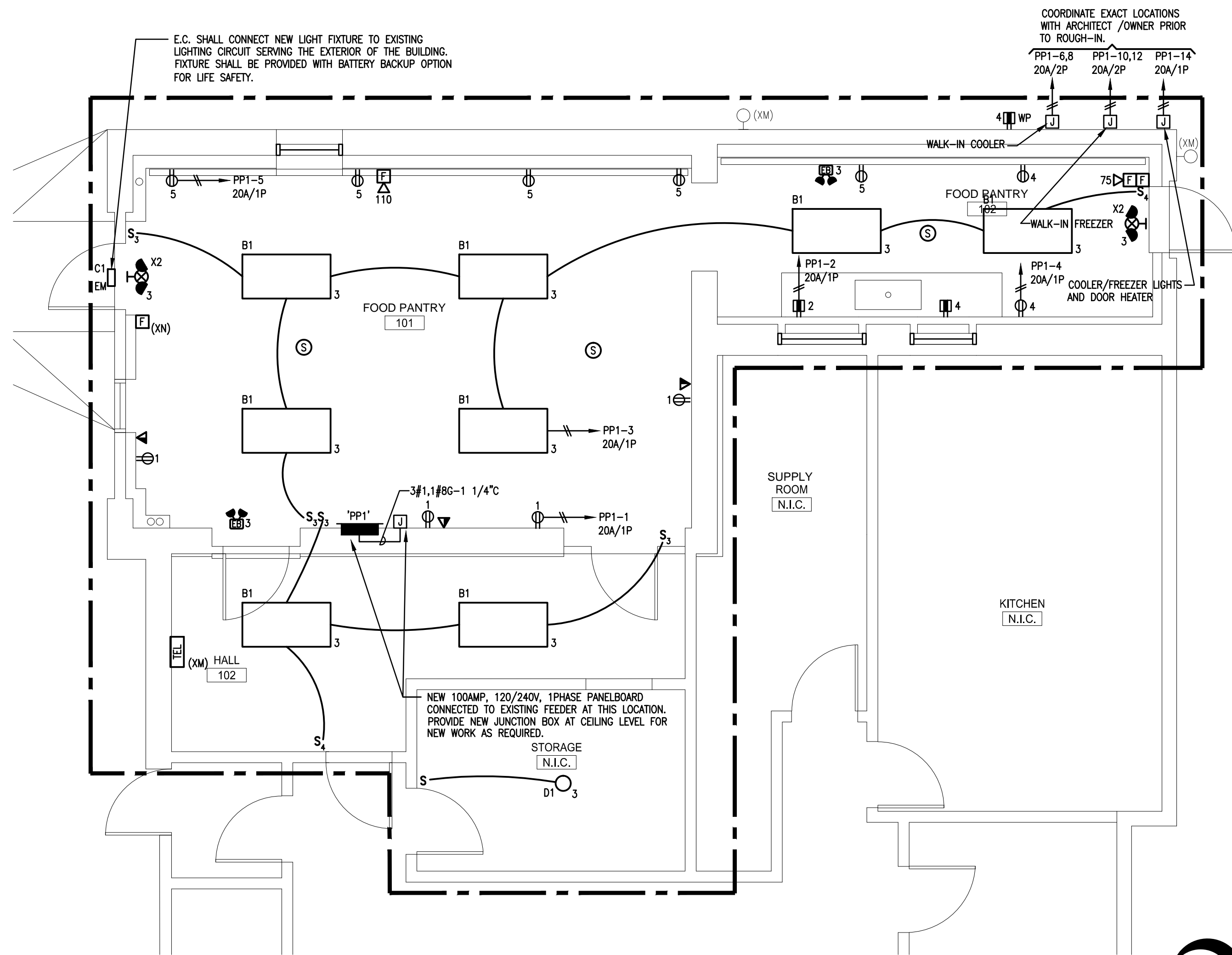
5 ELECTRICAL - First Floor Key Plan
SCALE: 1/16"= 1'-0"

FIRE ALARM NOTES:

- ALL NEW FIRE ALARM DEVICES SHALL BE CONNECTED TO EXISTING SIMPLEX 4006 SYSTEM. E.C. TO JUNCTION AND EXTEND EXISTING CIRCUITRY AS REQUIRED FOR NEW DEVICES. PROVIDE ALL EQUIPMENT, BOOSTERS, NAC EXTENDERS, RELAYS, CARDS, PROGRAMMING AND TESTING AS REQUIRED.
- NEW AUDIO/VISUAL DEVICES SHALL BE SYNCHRONIZED WITH EXISTING DEVICES. PROVIDE SYNCHRONIZED DEVICES OR SYNC. CARDS IN EXISTING SYSTEM AS REQUIRED.



3 ELECTRICAL - First Floor Pantry Demolition Plan
SCALE: 1/4"= 1'-0"



4 ELECTRICAL - First Floor Pantry New Work Plan
SCALE: 1/4"= 1'-0"



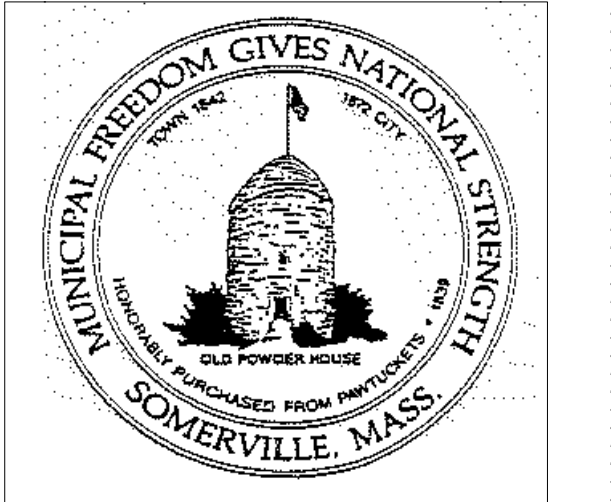
CBI
CONSULTING INC.

250 DORCHESTER AVENUE
BOSTON, MA 02127

P: (617) 268-8977
F: (617) 464-2971

cbi@cbiconsultinginc.com
www.cbiconsultinginc.com

**CITY OF
SOMERVILLE
CROSS STREET
SENIOR CENTER
RENOVATIONS**



**CAPITAL PROJECTS AND
PLANNING DEPARTMENT**
ONE FRANEY ROAD
SOMERVILLE, MA 02145

Drawing Title:

**FIRST FLOOR
PLANS**

Revisions:

Submission:

**BIDDING
DOCUMENTS**

Date: 07/29/16
Project Number: 15036-C
Project Manager: AMW
Drawn By: CMF
Scale: AS NOTED



BLW Engineers, Inc.

311 Great Road, Post Office Box 1551
Littleton, Massachusetts 01460
T: 978.486.4301 F: 978.428.0067
www.blwengineers.com

HVAC * ELECTRICAL * PLUMBING * FIRE PROTECTION

E100