



**Bryant Elementary School Window Improvement Project
Seattle Public Schools**

Landmarks Preservation Board
Application for Certificate of Approval
03/31/2026

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Overview and History

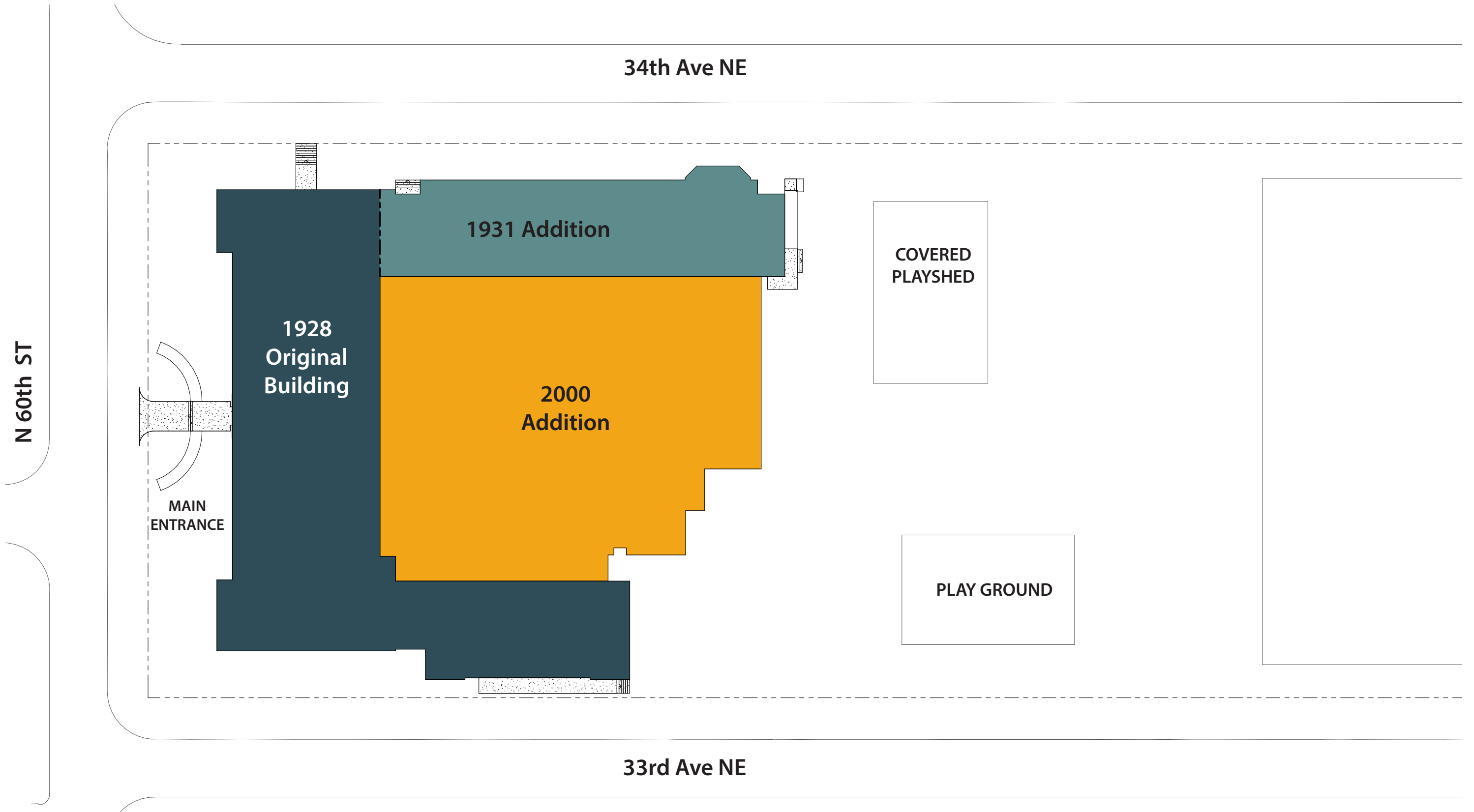
Survey of Existing Conditions

Project Goals and Proposed Concepts

SITE VICINITY



SITE PLAN

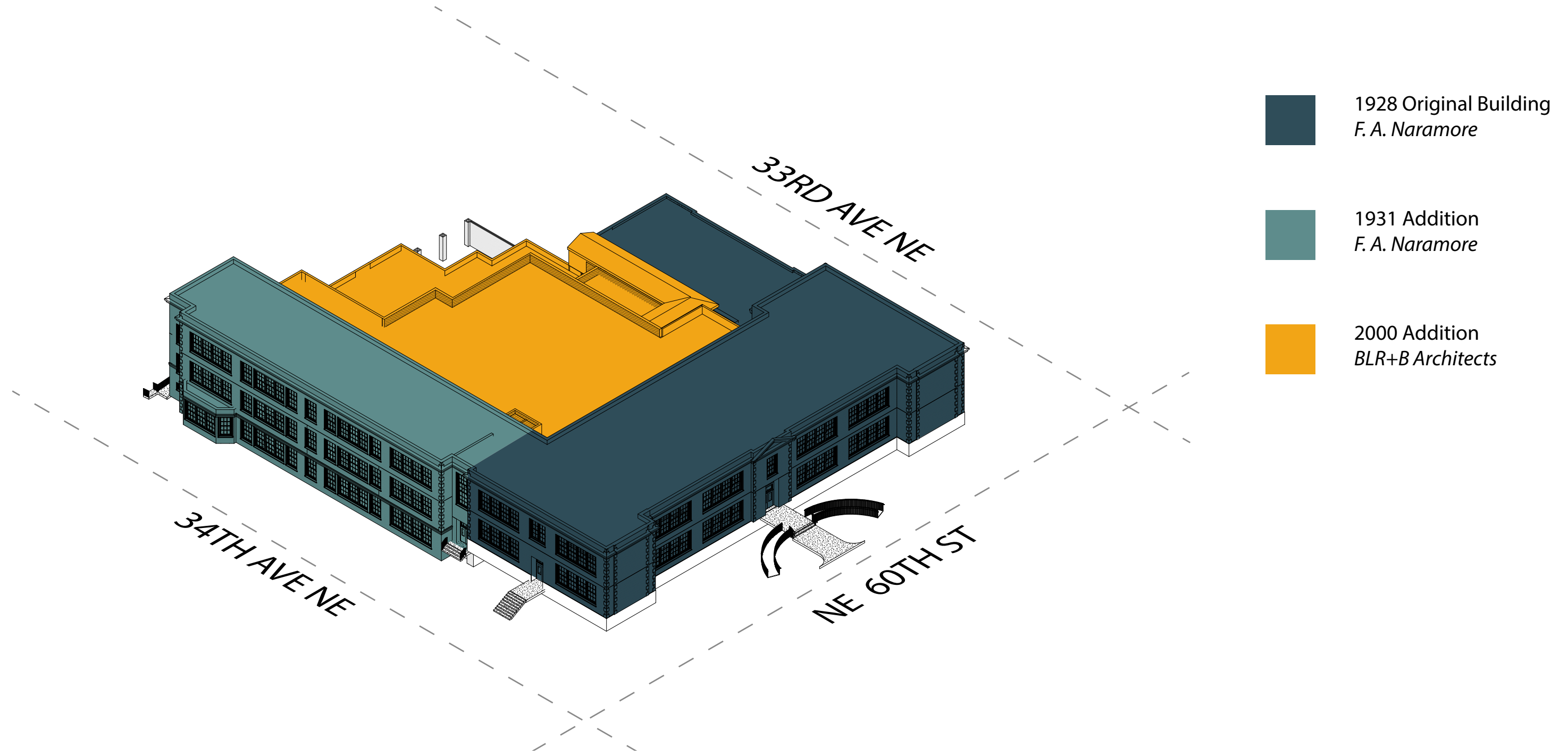


BUILDING OVERVIEW

LANDMARK DESIGNATION

The features of the Landmark to be preserved include:

“Entire exterior of school building and site.”



HISTORIC PHOTOS



1960

VIEW OF FRONT OF BUILDING (NORTH ELEVATION)

CURRENT PHOTOS



VIEW OF FRONT ENTRANCE

CURRENT PHOTOS



VIEW OF EASTERN KINDERGARTEN BAY EXTERIOR



VIEW OF HISTORIC WINDOWS ON WESTERN ELEVATION

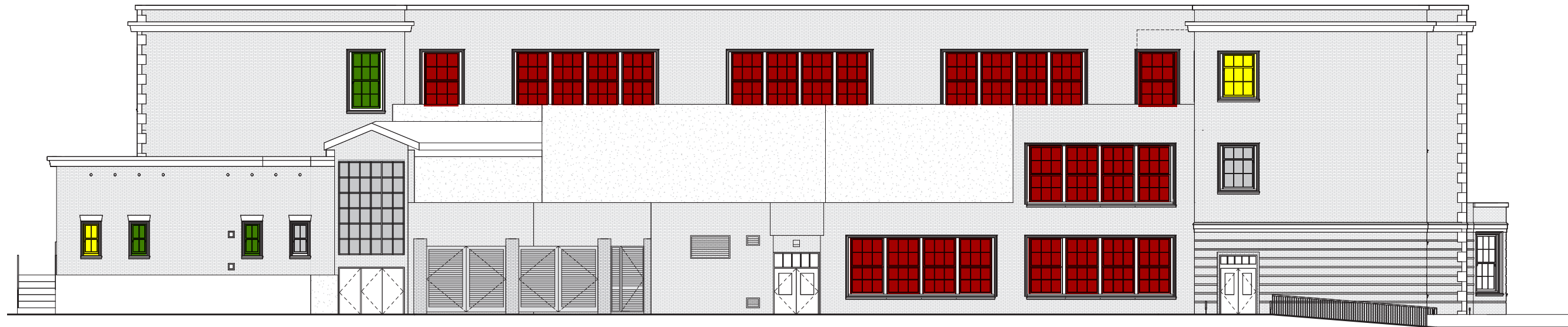


VIEW OF HISTORIC WINDOWS ON EASTERN ELEVATION

EXISTING WINDOW CONDITION



NORTH ELEVATION



SOUTH ELEVATION

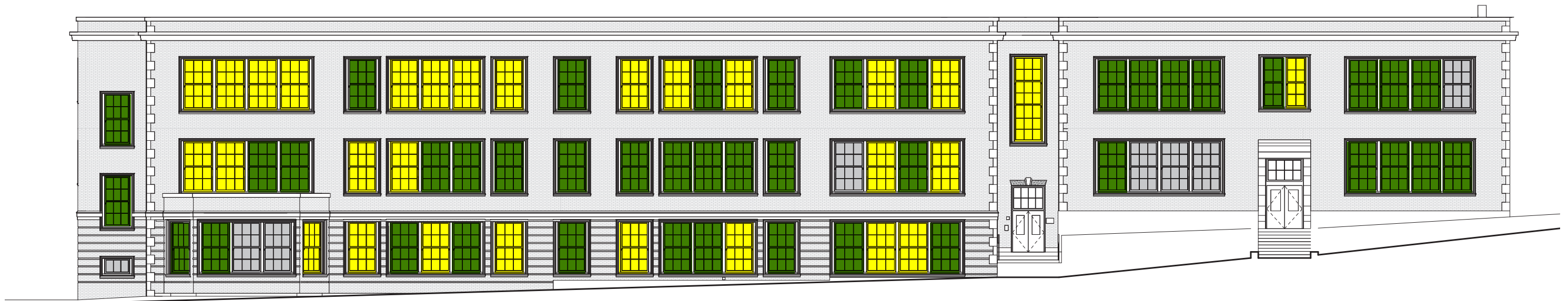
LEGEND

- | | | | |
|--|---|---|---|
| <p>■ Surface Defects
Operationally sound, routine maintenance required</p> | <p>■ Moderate Condition
Operable, physical deterioration requiring stabilization</p> | <p>■ Poor Condition
Not operable, advanced deterioration, splices and/or parts replacement required</p> | <p>■ Evaluation team not able to access window</p> |
|--|---|---|---|

EXISTING WINDOW CONDITION



WEST ELEVATION



EAST ELEVATION

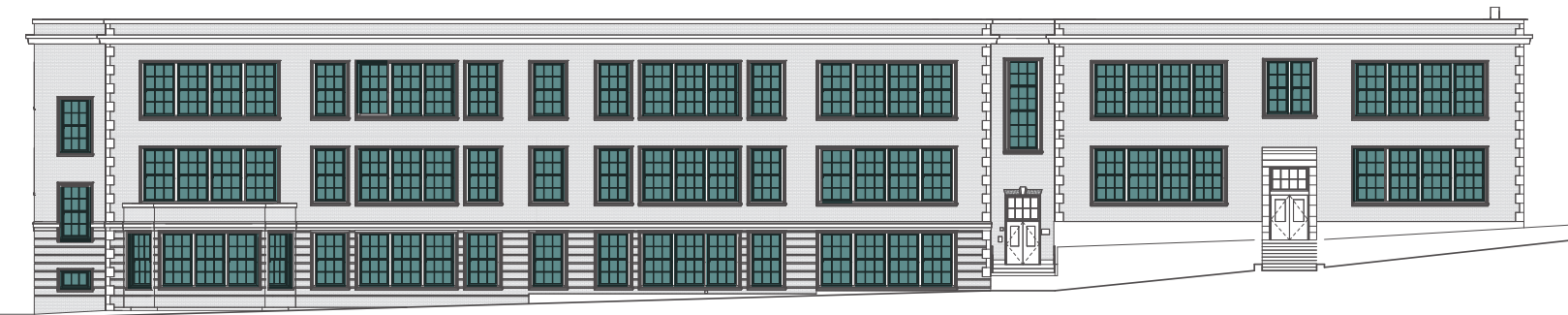
LEGEND

- | | | | |
|--|---|---|---|
| <p>■ Surface Defects
Operationally sound, routine maintenance required</p> | <p>■ Moderate Condition
Operable, physical deterioration requiring stabilization</p> | <p>■ Poor Condition
Not operable, advanced deterioration, splices and/or parts replacement required</p> | <p>■ Evaluation team not able to access window</p> |
|--|---|---|---|

EXTERIOR ELEVATIONS



NORTH ELEVATION



EAST ELEVATION



WEST ELEVATION



SOUTH ELEVATION



HISTORIC WOOD WINDOWS TO BE PRESERVED.
PROPOSED WORK: MAINTENANCE AND REPAIR
WITH OPTION TO ALSO REPLACE GLAZING

VACCUUM-INSULATED GLASS



**NON-HISTORIC ALUMINUM-CLAD WINDOWS IN
HISTORIC ROUGH OPENING.**

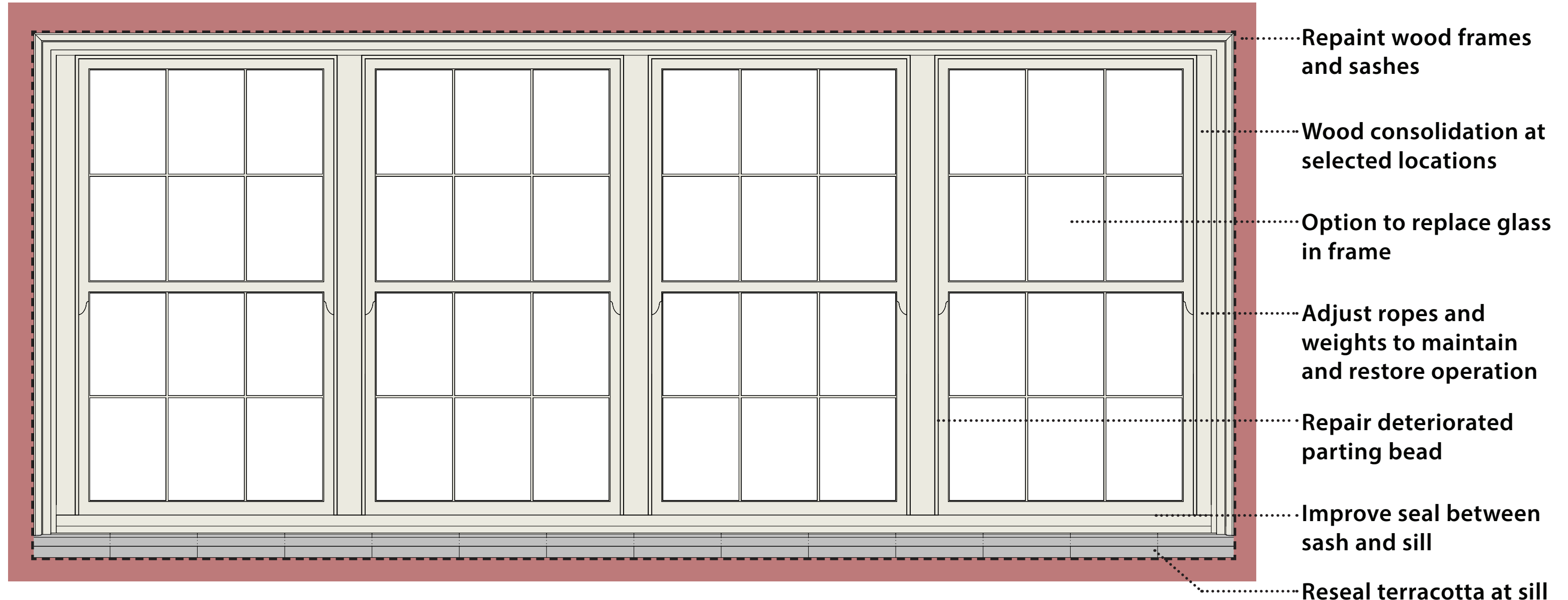
UNDER SEPARATE CERTIFICATE OF APPROVAL



**NON-HISTORIC ALUMINUM-CLAD WINDOWS IN
2000 ADDITION.**

UNDER SEPARATE CERTIFICATE OF APPROVAL

HISTORIC WINDOWS



PROPOSED GL-2: VACUUM-INSULATED GLASS (ENTHERMAL LUXWALL)



(E) Glass with sheet of white paper



Vacuum-insulated glass with sheet of white paper

Exterior



(E) Glass

Vacuum-insulated glass

Port

Interior

PROPOSED GL-3: LAMINATED GLASS WITH LOW-E COATING



(E) Glass with sheet of white paper



Laminated glass with Low-E coating with sheet of white paper

Exterior

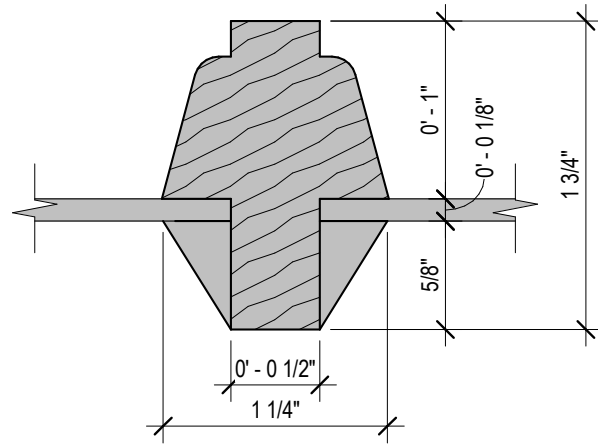


(E) Glass

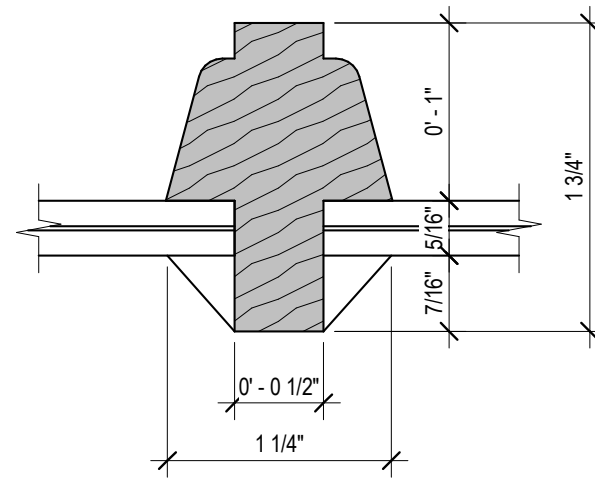
Laminated glass with Low-E coating

Interior

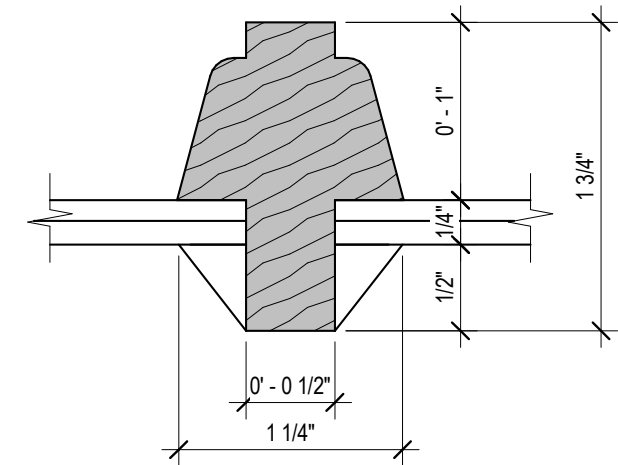
MUNTIN PROFILES



EXISTING MUNTIN



**PROPOSED MUNTIN
WITH VACUUM-INSULATED GLASS**



**PROPOSED MUNTIN
WITH LAMINATED GLASS WITH
LOW-E COATING**

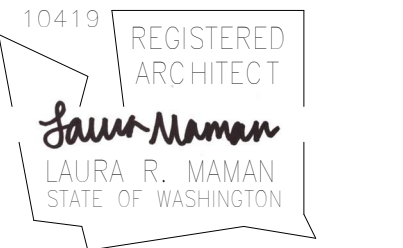


Thank You

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119 North 25th St, Suite 200
Seattle, Washington 98103
Tel: 206 634 0177
Fax: 206 634 0167

ARCHITECT'S STAMP



CONSULTANT

CONSULTANT'S STAMP

Seattle Public Schools Bryant Elementary School Window Improvement Project



Abbreviations

AB	ANCHOR BOLT	MAS	MASONRY
AC	ACOUSTICAL	MATL	MATERIAL
ACT	ACOUSTICAL CEILING TILE	MAX	MAXIMUM
ADJ	ADJUSTABLE	MB	METAL BASE
AIE	ARCHITECT OR ENGINEER	MECH	MECHANICAL
AFF	ABOVE FINISH FLOOR	MEMB	MEMBRANE
AHJ	AUTHORITY HAVING JURISDICTION	MFR	MANUFACTURER
ALUM	ALUMINUM	MIN	MINIMUM
AND	AND/ED	MISC	MISCELLANEOUS
APC	ACOUSTIC PANEL CEILING	MO	MASONRY OPENING
ARCH	ARCHITECT, ARCHITECTURAL	MTL	METAL
ASF	ALUMINUM STOREFRONT	MW	MICROWAVE
BAR	REINFORCING BAR	N	NORTH
BFF	BELOW FINISH FLOOR	NIC	NOT IN CONTRACT
BLDG	BUILDING	NOM	NOMINAL
BLKG	BLOCKING	NTS	NOT TO SCALE
BMU	BRICK MASONRY UNIT	OC	ON CENTER
BO	BOTTOM OF	OCC	OCCUPANTS, OCCUPANCY
BS	BOTH SIDES	OD	OUTSIDE DIAMETER
BTWN	BETWEEN	OFF	OFFICE
BUR	BUILT-UP ROOF	OH	OVERHAND
CS	CORNER GUARD	OPNS	OPENING
CH	CEILING HEIGHT	OPP	OPPOSITE VIEW
CIP	CAST-IN-PLACE	OTS	OPEN TO STRUCTURE
CJ	CONTROL JOINT	P	PAINT
CL	CENTERLINE	P.	PLUMBING FIXTURE
CLG	CEILING	PC	POLYMER CEMENT
CLR	CLEAR	PERF	PERFORATED
CMU	CONCRETE MASONRY UNIT	PH	PANIC HARDWARE
C OF A	CERTIFICATE OF APPROVAL	PL	PLATE
COL	COLUMN	PLAM	PLASTIC LAMINATE
CONC	CONCRETE	PLAS	PLASTIC
CONST	CONSTRUCTION	PLYWD	PLYWOOD
CONT	CONTINUOUS	PRMA	POLYMERHYL METHACRYLATE
CONTR	CONTRACTOR	PNL	PANEL
CORR	CORRIDOR	PNT	PAINT, PAINTED
CPT	CARPET	PREFAB	PREFABRICATED
CR	COLD ROLLED	PREFIN	PREFINISHED
CT	CERAMIC TILE	PTH	PRESSURE TREATED
CTR	CENTER	PTH	PAPER TOWEL HOLDER
DEPT	DEPARTMENT	R	RADIUS
DF	DRINKING FOUNTAIN	RB	RUBBER BASE
DIAMETER		RCP	REFLECTED CEILING PLAN
DIM	DIMENSION	RD	ROOF DRAIN
DL	DEADLOAD	REF	REFER, REFERENCE
DN	DOWN	REFR	REFRIGERATOR
DP	DIMENSION POINT	REIN	REINFORCE, REINFORCED
DR	DOOR	REQD	REQUIRED
DS	DOWNSPOUT	REV	REVISION
DW	DISHWASHER	RM	ROOM
DWG	DRAWING	RO	ROUGH OPENING
(E)	EXISTING	RP	RESIN PANEL
E	EAST	SCHED	SCHEDULE
EA	EACH	SD	SMOKE DETECTOR
EB	EXPANSION BOLT	SF	SQUARE FEET
EJ	EXPANSION JOINT	SHIT	SHEET
EL	ELEVATION	SHGT	SHEATHING
ELEC	ELECTRICAL	SIM	SIMILAR
ELEV	ELEVATOR	SMC	SUSPENDED METAL CEILING
EMER	EMERGENCY	SOS	SLAB ON GRADE
ED	EQUAL	SP	SPLASH PAN
EQUIP	EQUIPMENT	SPEC	SPECIFICATION, SPECIFIED
EW	EACH WAY	SQ	SQUARE
EXH	EXHAUST	SSF	SOLID SURFACING
EXP	EXPANSION	SSTL	STAINLESS STEEL
EXT	EXTERIOR	STL	STEEL
F	FIXTURE (LIGHT FIXTURE)	STOR	STORAGE
FB	FLAT BAR	STN	STAIN
FBO	FURNISHED BY OWNER	STRUC	STRUCTURAL
FD	FLOOR DRAIN	SUSP	SUSPENDED
FE	FIRE EXTINGUISHER	T	THERMOSTAT
FEC	FIRE EXTINGUISHER CABINET	T&G	TONGUE & GROOVE
FF	FINISH FLOOR	TEL	TELEPHONE
FG	FINISH GRADE	TEMP	TEMPORARY
FIN	FINISH	TEMP	TEMPERED
FIXT	FIXTURE	THK	THICK
FLSHG	FLASHING	TO	TOP OF
FND	FOUNDATION	TOS	TOP OF STRUCTURE
FO	FACE OF	TOW	TOP OF WALL
FOIC	FURNISHED BY OWNER	TS	TUBE STEEL
FOI	INSTALLED BY CONTRACTOR	TYP	TYPICAL
FOO	FURNISHED AND INSTALLED BY OWNER	UNO	UNLESS NOTED OTHERWISE
FT	FOOT FEET	V	VERIFY
FTG	FOOTING	VB	VAPOR BARRIER
FV	FIELD VERIFY	VCT	VINYL COMPOSITION TILE
GA	GAUGE	VERT	VERTICAL
GB	GRAB BAR	VEST	VESTIBULE
G&S	GLUE & SCREW	VIF	VERIFY IN FIELD
GALV	GALVANIZED	VP	VENEER PLASTER
GC	GENERAL CONTRACTOR	W	WATT(S)
GEN	GENERAL	W	WIDE
GL	GLASS	W	WINDOW
GL	GRID LINE	W	WITH
GMT	GLASS MOSAIC TILE	WC	WATER CLOSET
GWB	GYPSPUM BOARD	WD	WOOD
GS	GYPSPUM SHEATHING	WD	WASHER/DRYER
H	HIGH	WO	WITHOUT
HI	HIGH	WP	WATERPROOF
HDWR	HARDWARE	WT	WEIGHT
HM	HOLLOW METAL	WWF	WELDED WIRE FABRIC
HORIZ	HORIZONTAL	WWM	WELDED WIRE MESH
HR	HOUR		
HT	HEIGHT		
HVAC	HEATING, VENTILATION, AIR CONDITIONING		
HWD	HARDWOOD		
HWH	HOT WATER HEATER		
ID	INSIDE DIAMETER	SYMBOLS	
IN	INCH	&	AND
INCL	INCLUDE, INCLUDING	L	ANGLE
INSUL	INSULATE, INSULATION	@	AT
INT	INTERIOR	C	CHANNEL
		#	NUMBER
JT	JOINT		
KO	KNOCK OUT		
L	LOCK		
L	LONG		
L	LOW		
LAF	LIQUID APPLIED FLASHING		
LAM	LAMINATE, LAMINATED		
LAV	LAVATORY		
LL	LINE LOAD		
LN	LINEUM		
LO	LOW		
LT	LIGHT		
LV	LIGHT VALENCE		

Drawing Symbols

	NORTH ARROW
	GRID LINE MARKER
	EXTERIOR ELEVATION
	BUILDING SECTION
	WALL SECTION
	DETAIL
	INTERIOR ELEVATIONS
	ROOM NAME ROOM NUMBER FLOOR FINISH (FINISH COLOR)
	WINDOW TYPE
	DOOR NUMBER
	RELITE TYPE
	CEILING TYPE
	CEILING HEIGHT
	PARTITION TYPE
	MATERIAL TAG
	ELEVATION
	EXISTING TOPOGRAPHY
	NEW TOPOGRAPHY
	FLOOR FINISH TRANSITION
	1-HOUR FIRE RATED ENCLOSURE
	2-HOUR FIRE RATED BUILDING SEPARATION
	MATCHLINE
	REVISION TAG
	TEACHING STATION TAG

General Notes

- CONTRACTOR TO VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH WORK. CONTRACTOR SHALL REPORT ERRORS, OMISSIONS AND DISCREPANCIES TO THE ARCHITECT IMMEDIATELY.
- DIMENSIONS ARE SHOWN FACE OF STUD, FACE OF CONCRETE OR MASONRY, AND TO CENTERLINE OF GRID LINES, UNLESS NOTED OTHERWISE ON THE DRAWINGS. DIMENSIONS ARE SHOWN TO FACE OF FINISH FOR EXISTING WORK.
- ALL APPLICABLE CODES AND ORDINANCES TAKE PRECEDENCE OVER ALL DRAWINGS, NOTES AND SPECIFICATIONS.
- ALL WORK IS TO CONFORM TO THE CURRENT VERSION OF THE INTERNATIONAL BUILDING CODE (IBC) AND ALL AMENDMENTS IN EFFECT IN THE PERMITTING JURISDICTION AT THE TIME OF PERMITTING.
- REPETITIVE FEATURES DRAWN OR NOTED ONLY ONCE SHALL BE COMPLETELY PROVIDED AS IF DRAWN OR NOTED IN FULL.
- THESE DRAWINGS ARE SPECIFIC TO THIS PROJECT. THESE DRAWINGS OR PORTIONS THEREOF SHALL NOT BE USED FOR OTHER PROJECTS.
- STOP WORK AND NOTIFY OWNER IF ASBESTOS OR HAZARDOUS MATERIALS ARE DISCOVERED.
- DO NOT SCALE THE DRAWINGS. THE CONTRACTOR SHALL REFER TO DIMENSIONS SHOWN ON DRAWINGS AND INFORM ARCHITECT OF ANY DISCREPANCIES.

Materials & Symbols

	COMPACTED EARTH
	SAND, GRAVEL, OR CRUSHED ROCK
	CONCRETE
	METAL
	MASONRY (IN PLAN)
	WOOD - BLOCKING
	WOOD - CONTINUOUS
	WOOD FINISH
	RIGID INSULATION
	MINERAL WOOL BATT INSULATION
	MINERAL WOOL BOARD INSULATION
	LOOSE FILL FIBERGLASS INSULATION
	GYPSPUM BOARD

Project Information

Owner

SEATTLE PUBLIC SCHOOLS
2445 3RD AVE S
SEATTLE, WA 98134
206-252-0883
CONTACT: KRISTI JONES

Project Description

ADDRESS:
3311 NE 60TH ST
SEATTLE, WA 98115

TAX PARCEL NUMBER:
882900190

LEGAL DESCRIPTION:
UNIVERSITY VIEW ADD & VAC ALLEY
PLAT BLOCK: 2
PLAT LOCK: ALL

PROJECT DESCRIPTION:
PROJECT SCOPE RECAP ONLY. REFER TO DRAWINGS AND SPECIFICATIONS FOR DESCRIPTION AND REQUIREMENTS.

WINDOW MAINTENANCE IN KIND:
- REPAINTING HISTORIC WOOD WINDOWS WITH COLOR TO MATCH EXISTING
- RESEALING JOINT BETWEEN WOOD SILL AND TERRACOTA SILL
- REPOINTING JOINTS AT TERRACOTA SILL
- REPLACING BROKEN ROPES / CHAINS FOR OPERABLE SASH
- WOOD CONSOLIDANT TO REPAIR SELECTED DETERIORATED WOOD SECTIONS

PROPOSED REHABILITATION:
REPLACEMENT OF SINGLE PANE GLASS WITH VACUUM-INSULATED GLASS. MAINTAIN TRUE DIVIDED LIGHTS AT HISTORIC WINDOWS.

ROOF MAINTENANCE IN KIND:
REPLACEMENT OF KINDERGARTEN BAY WINDOW ROOFING, APPROX 100 SF

PROPOSED WORK AT NON-HISTORIC WINDOWS:
DEMOLISH (2) SINGLE HUNG NON-HISTORIC ALUMINUM CLAD WOOD WINDOWS. PROVIDE (2) AWNING OPERATION ALUMINUM CLAD WOOD WINDOWS INTO (E) ROUGH OPENINGS. MULTICON CONFIGURATION TO MATCH DESIGN OF 2000-ERA WINDOW ASSEMBLIES UNDER SEPARATE C OF A

Project Team

Architect

MILLER HAYASHI ARCHITECTS PLLC
118 N 35TH STREET, SUITE 200
SEATTLE, WA 98103
206-634-0177
CONTACT: LAURA MAMAN

Building Envelope

4EA BUILDING SCIENCE
12721 30TH AVENUE NE, 2ND FLOOR,
SEATTLE, WA 98125
206-849-0116
CONTACT HAN SALZMANN

Code Analysis

APPLICABLE CODES:
2021 SEATTLE EXISTING BUILDING CODE
2021 SEATTLE BUILDING CODE
2021 SEATTLE ENERGY CODE

BUILDING OCCUPANCY:
E - EDUCATION (NO CHANGE)

AREA TABULATION:
LEVEL 1 45000 SF (NO CHANGE)
LEVEL 2 29000 SF (NO CHANGE)
LEVEL 3 20000 SF (NO CHANGE)
TOTAL SCHOOL BUILDING 90000 SF (NO CHANGE)

CONSTRUCTION TYPE:
TYPE IIA (NO CHANGE)

SEATTLE ENERGY CODE

C103.6.3 COMPLIANCE DOCUMENTATION

C402.4 FENESTRATION, TABLE C402.4

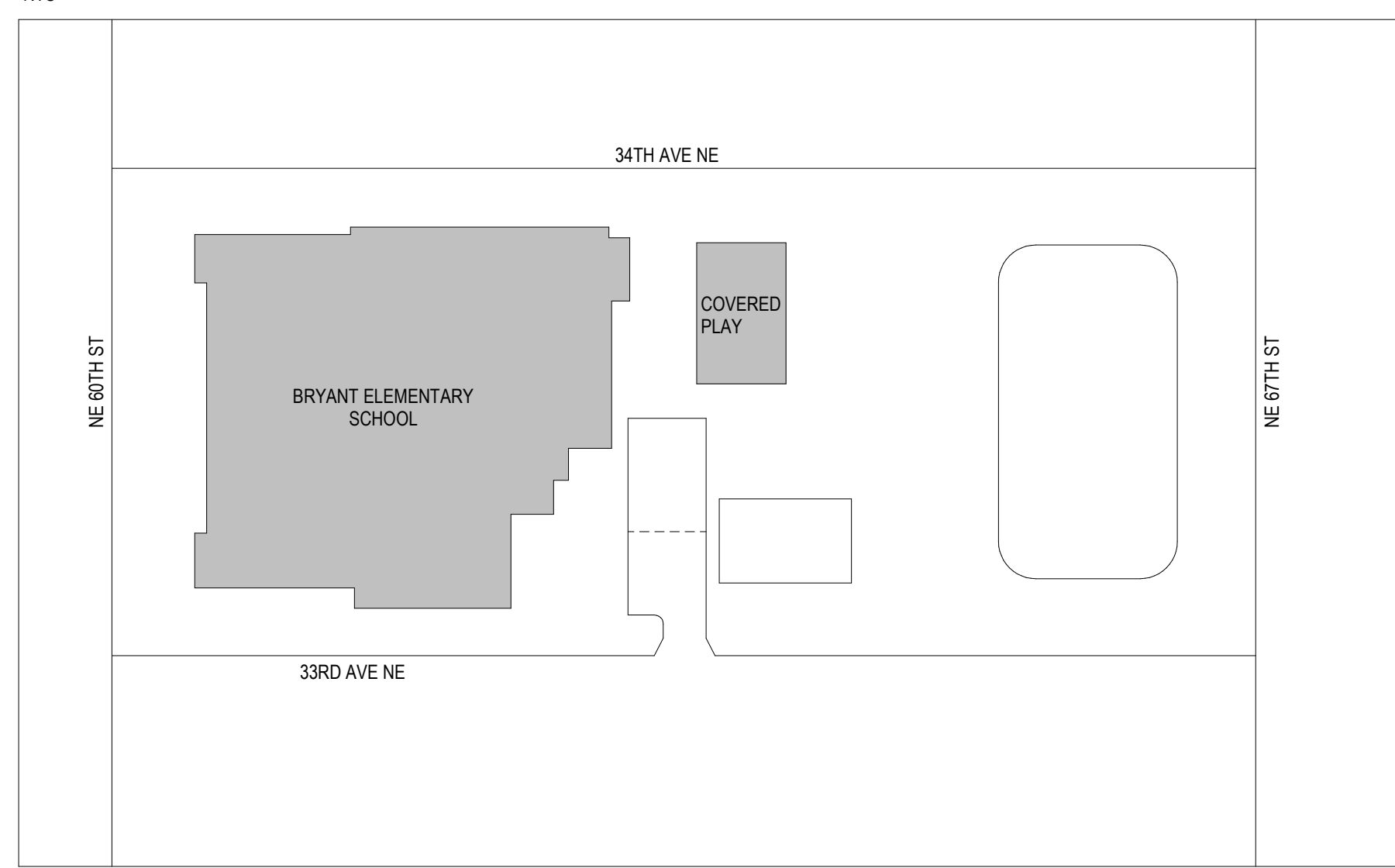
C501.5 LANDMARKS

C503 ALTERATIONS

C503.3 BUILDING ENVELOPE:

NO PROPOSED CHANGES TO OPAQUE WALL ASSEMBLIES
NO PROPOSED CHANGES TO WINDOW SIZES. ALL PROPOSED WINDOWS ARE TO MATCH EXISTING OPENINGS AND LOCATIONS IN KIND.

Vicinity Map



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AA1.11 PHOTOS OF EXISTING CONDITION

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A1.22A SELECTIVE DEMOLITION FLOOR PLAN - LEVEL 2 - SECTOR A
A1.22B SELECTIVE DEMOLITION FLOOR PLAN - LEVEL 2 - SECTOR B
A1.23A SELECTIVE DEMOLITION FLOOR PLAN - LEVEL 3 - SECTOR A
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A1.30A SELECTIVE DEMOLITION ROOF PLAN - SECTOR A
A1.30B SELECTIVE DEMOLITION ROOF PLAN - SECTOR B
A1.50 SELECTIVE DEMOLITION BUILDING SECTIONS & ELEVATIONS
A1.51 SELECTIVE DEMOLITION BUILDING SECTIONS & ELEVATIONS

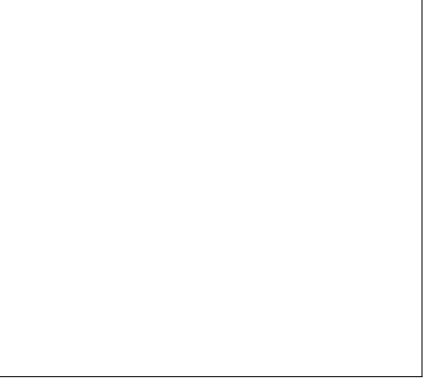
A2.01 FLOOR PLAN - LEVEL 1
A2.02A FLOOR PLAN - LEVEL 2 - SECTOR A
A2.02B FLOOR PLAN - LEVEL 2 - SECTOR B
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A6.00 ROOF DETAILS
A6.13 WINDOW DETAILS - 2000 ADDITION
A6.14 WINDOW DETAILS - 2000 ADDITION
A6.15 WINDOW DETAILS - HISTORIC

BUILDING DEPARTMENT'S STAMP



PHASE

Certificate of Approval Set

DATE

03/31/26

REVISIONS

Description	Date
Correction Response 01	05/08/26

SHEET TITLE

TITLE SHEET, SHEET INDEX & GENERAL NOTES

SHEET NO.

AA1.00



A. HISTORIC TERRACOTTA SILL



B. HISTORIC TERRACOTTA SILL



C. HISTORIC TERRACOTTA SILL



D. HISTORIC TERRACOTTA SILL



E. (E) KINDERGARTEN BAY EXTERIOR



F. EASTERN FACADE TREE COVER (S)



G. WESTERN FACADE TREE COVER



H. RAMP AT WESTERN FACADE



I. (E) KINDERGARTEN BAY ROOF



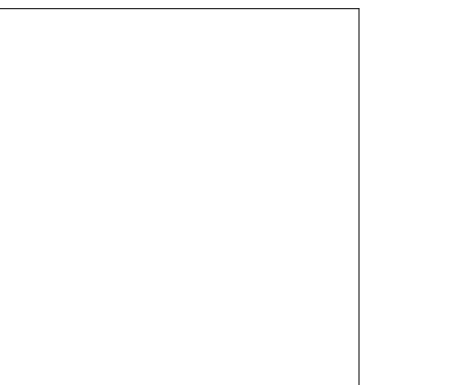
I. SOUTH EASTERN BUILDING CORNER



J. SOUTHERN FACADE FROM WESTERN CORNER OF PARKING/ PLAY AREA



K. TREES AT NORTHERN ENTRANCE



NE 60TH ST

34TH AVE NE

MAIN ENTRANCE

EXISTING BUILDING

GC LAYDOWN
AREA AT
COVERED PLAY

EXISTING GRASS FIELD

688'2" NE
238.32'

(E) DUMPSTER
ENCLOSURE

GC LAYDOWN AND
PARKING

GC PROVIDE
TEMPORARY
FENCE, TYP.

(E) VEHICLE GATE

(E) WOODCHIPS
AND CLIMBERS

PROTECT (E)
FENCE AND GATES,
TYP.

PROPERTY LINE,
TYP.

(E) SCHOOL
GARDEN

N01°08'17"E
605.44'

(E) VEHICLE
ACCESS

NO CONTRACTOR PARKING IN ADA PARKING. MAINTAIN
ACCESS TO ADA PARKING FOR SCHOOL USE AT ALL TIMES

33RD AVE NE

1 Site Plan
1/16" = 1'-0"

BUILDING DEPARTMENT'S STAMP

PHASE

**Certificate of
Approval Set**

DATE

03/31/26

REVISIONS

Description Date

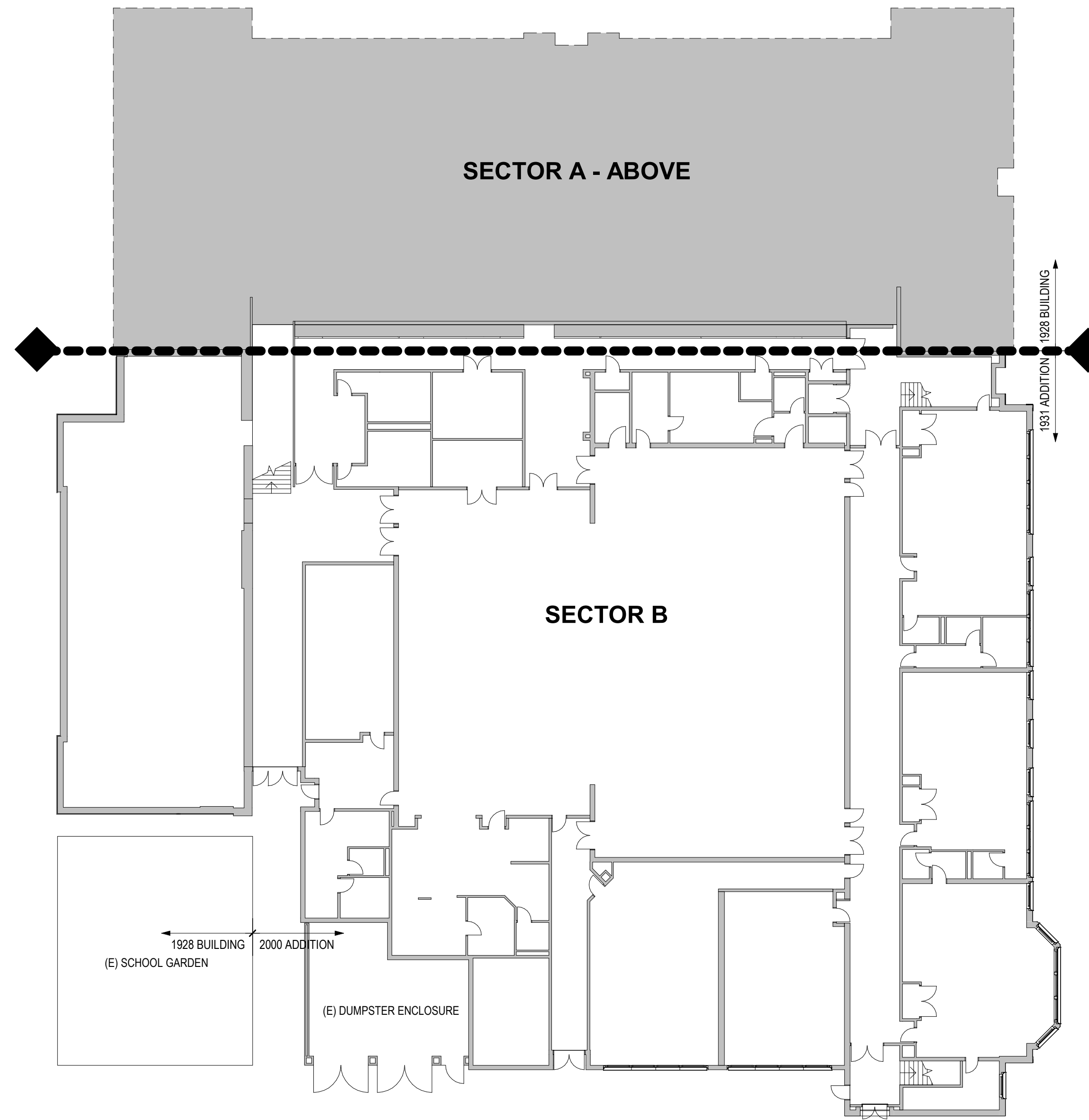
SHEET TITLE

SITE PLAN

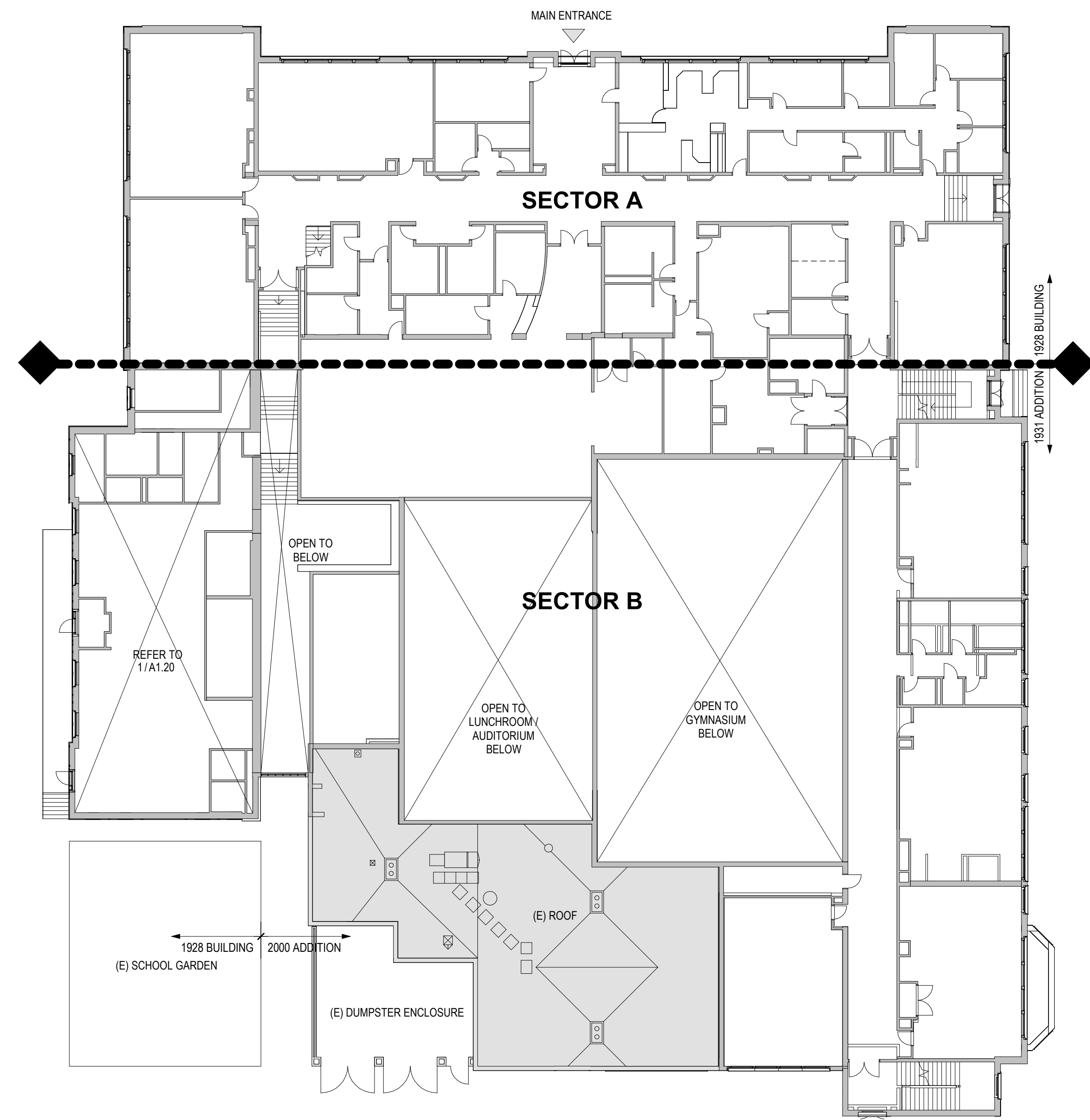
SHEET NO.

A1.10

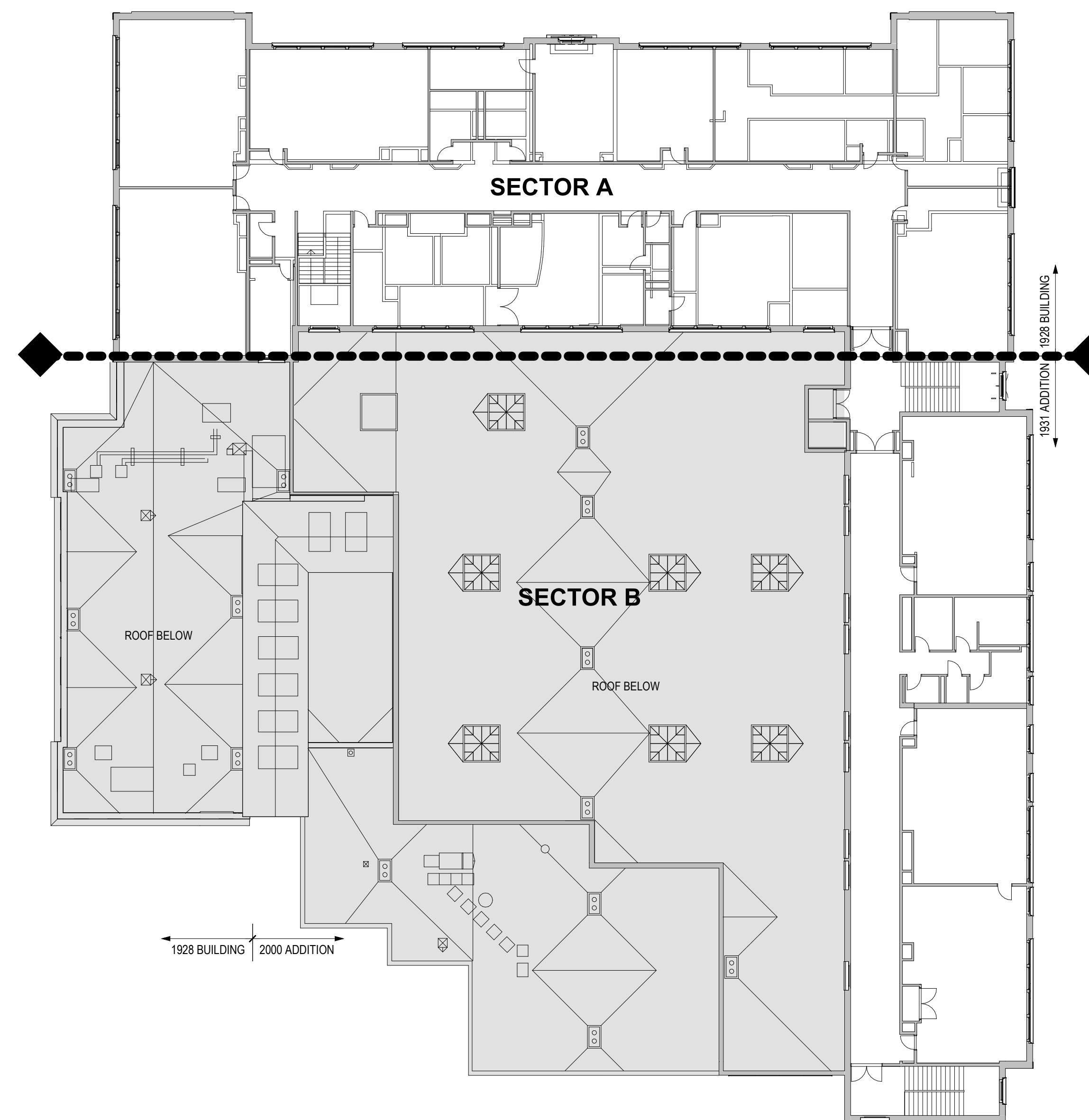
MILLER HAYASHI ARCHITECTS 2513



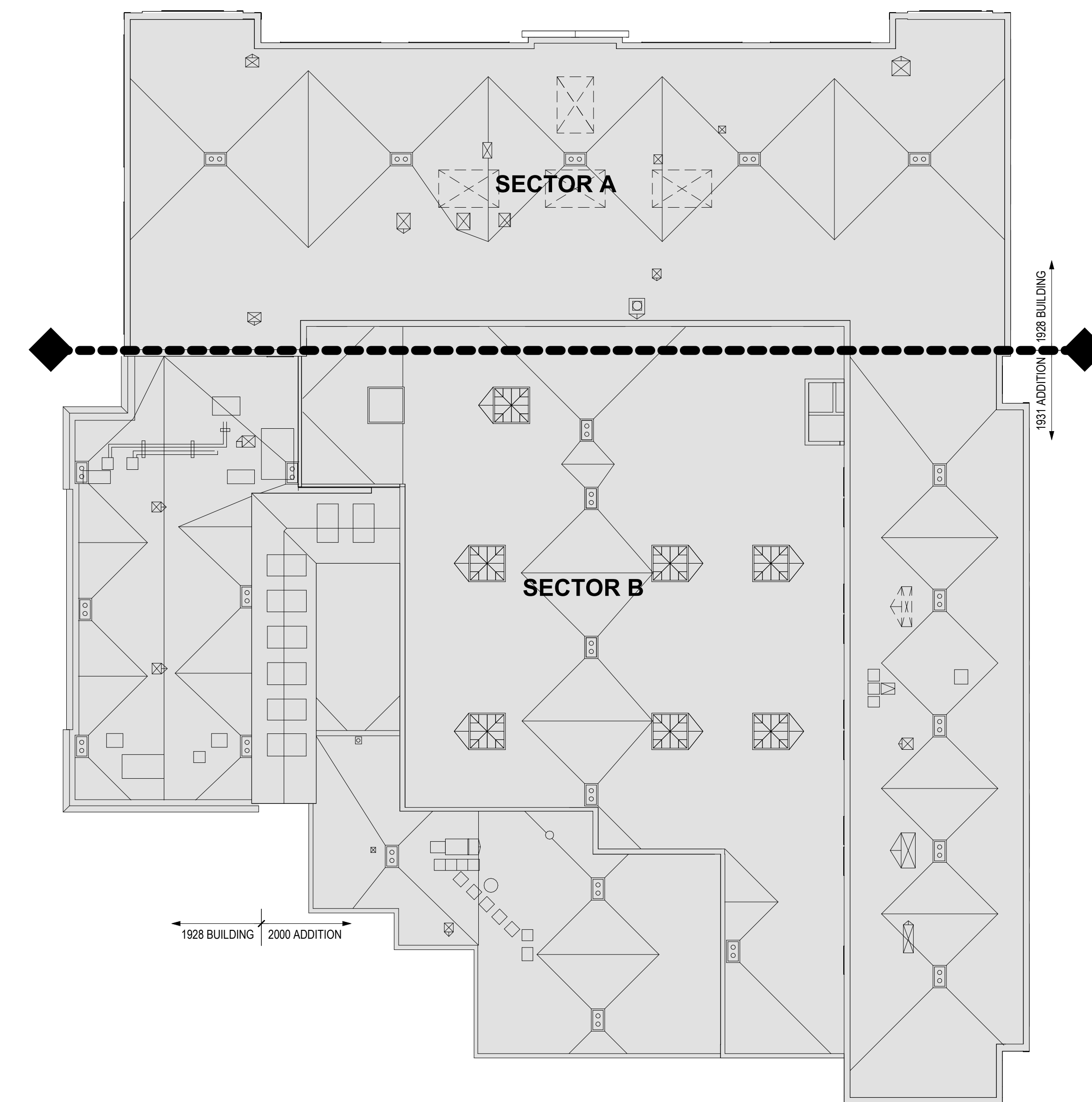
1 Overall Plan - Level 1
 1" = 20'-0"



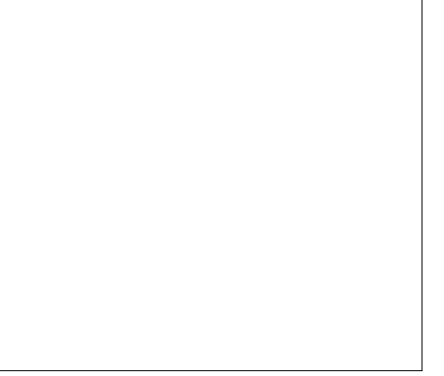
2 Overall Plan - Level 2
 1" = 20'-0"



3 Overall Plan - Level 3
 1" = 20'-0"



4 Overall Plan - Roof
 1" = 20'-0"



Selective Demolition Plan General Notes

- GENERAL NOTES**
- CONTRACTOR TO COORDINATE ALL DEMOLITION WORK WITH THE HAZARDOUS MATERIALS ABATEMENT SPECIFICATIONS. REFER TO ABATEMENT SPECIFICATIONS AND REPORT. ABATEMENT WORK SHALL CONFORM TO ALL APPLICABLE STATE AND FEDERAL STANDARDS.
 - CONTRACTOR TO REVIEW THE ENTIRE PROJECT DOCUMENTS AND PERFORM SELECTIVE DEMOLITION TO ACCOMPLISH THE WORK OF THE CONTRACT WHILE PROTECTING THE BUILDING, GROUNDS, HARDSCAPE, LANDSCAPE, AND ALL WORK TO REMAIN. GENERAL CONTRACTOR SHALL PHOTOGRAPHICALLY DOCUMENT AND REVIEW EXISTING DAMAGE IN MATERIALS AND ASSEMBLIES TO REMAIN WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCING DEMOLITION.
 - CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT OF DISCREPANCIES WITH THE DRAWINGS THAT MAY AFFECT THE STRUCTURAL CAPACITIES AND FINISHED APPEARANCE OF THE CONCRETE BEFORE PROCEEDING WITH ANY DEMOLITION ACTIVITIES.
 - DRAWING REPRESENTATIONS OF FRAMING AND OTHER CONCEALED CONDITIONS IN EXISTING BUILDING ARE APPROXIMATE. ACTUAL CONDITIONS MAY DIFFER. CONTRACTOR TO CONSULT W/ ARCHITECT IF SIGNIFICANT DISCREPANCIES ARE FOUND DURING DEMOLITION.
 - COORDINATE ALL DEMOLITION WORK, INCLUDING WORK OF ALL TRADES AND WORK SHOWN ON OTHER SHEETS THROUGHOUT THE SET.
 - DEMOLISH AND REMOVE ALL INTERIOR PARTITIONS DESIGNATED IN DASHED LINES IN THEIR ENTIRETY. UNO REFER TO ALTERATION PLAN FOR ADDITIONAL INFORMATION.
 - SELECTIVE DEMOLITION TO INCLUDE BUT NOT BE LIMITED TO ELEMENTS OF: FINISHES, DOORS, CASWORK, PLUMBING FIXTURES, DUCTWORK, CEILING FINISHES, TELEPHONE AND ELECTRICAL CONDUIT, CABLE AND EQUIPMENT, LIGHT FIXTURES, PARTITIONS AND OTHER ITEMS WHERE INDICATED AND AS REQUIRED TO ACCOMPLISH THE FINAL WORK. TAKE CARE TO PROTECT CONCRETE ELEMENTS, EXISTING ROOF, FLASHINGS, BRICK MASONRY, WINDOWS, DOORS, AND OTHER EXTERIOR ELEMENTS INTENDED TO REMAIN WHEN REMOVING FASTENERS AND ANCHORS. CONTRACTOR IS RESPONSIBLE FOR PATCHING AND REPAIRING SUCH AREAS.
 - WHERE EXISTING WORK IS TO BE CUT BACK FOR NEW WORK, CONTRACTOR IS TO ENSURE THAT CUTS ARE STRAIGHT AND TRUE. WHERE CUTS DO NOT CONFORM TO THE NEW WORK, PATCH THE EXISTING WORK TO A LEVEL DETERMINED TO BE ACCEPTABLE FOLLOWING CONSULTATION WITH THE ARCHITECT IN THE FIELD.
 - PROVIDE FIELD ENGINEERING AND TEMPORARY SUPPORT FOR (E) CONSTRUCTION TO REMAIN AS NECESSARY.
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 - REFER TO SELECTIVE DEMO BUILDING ELEVATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

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- CONTRACTOR SHALL WALK THE SITE WITH THE OWNER'S REPRESENTATIVE TO IDENTIFY ANY ITEMS WHICH SHOULD BE SET ASIDE AND PROTECTED FOR OWNER SALVAGE AFTER REMOVAL. THE OWNER WILL TRANSPORT SUCH ITEMS FROM THE SITE.
 - WHERE DOOR FRAMES ARE DEMOLISHED, DOOR STOP TO ALSO BE DEMOLISHED.

- STRUCTURAL**
- PROTECT ALL STRUCTURAL COMPONENTS TO REMAIN AND IMMEDIATELY NOTIFY ARCHITECT IF ANY DAMAGE OCCURS.

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- PLUMBING AND ROOF DRAINAGE INSTALLATIONS ARE SHOWN DIAGMATICALLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE PRIOR TO BID AND DETERMINE THE FULL SCOPE OF DEMOLITION.
 - SAFELY TERMINATE ALL POWER AND PLUMBING LINES. REFER TO ALL APPLICABLE CODES.
 - COORDINATE WORK WITH THE OWNER'S UTILITIES SERVICE PROVIDERS.

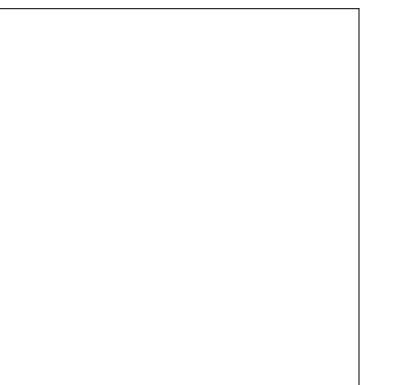
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Selective Demo Plan Legend

- EXISTING WALL AND ITEMS TO REMAIN, TYP
- EXISTING WALLS AND ITEMS TO BE DEMOLISHED, TYP
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Selective Demolition Plan Flag Notes

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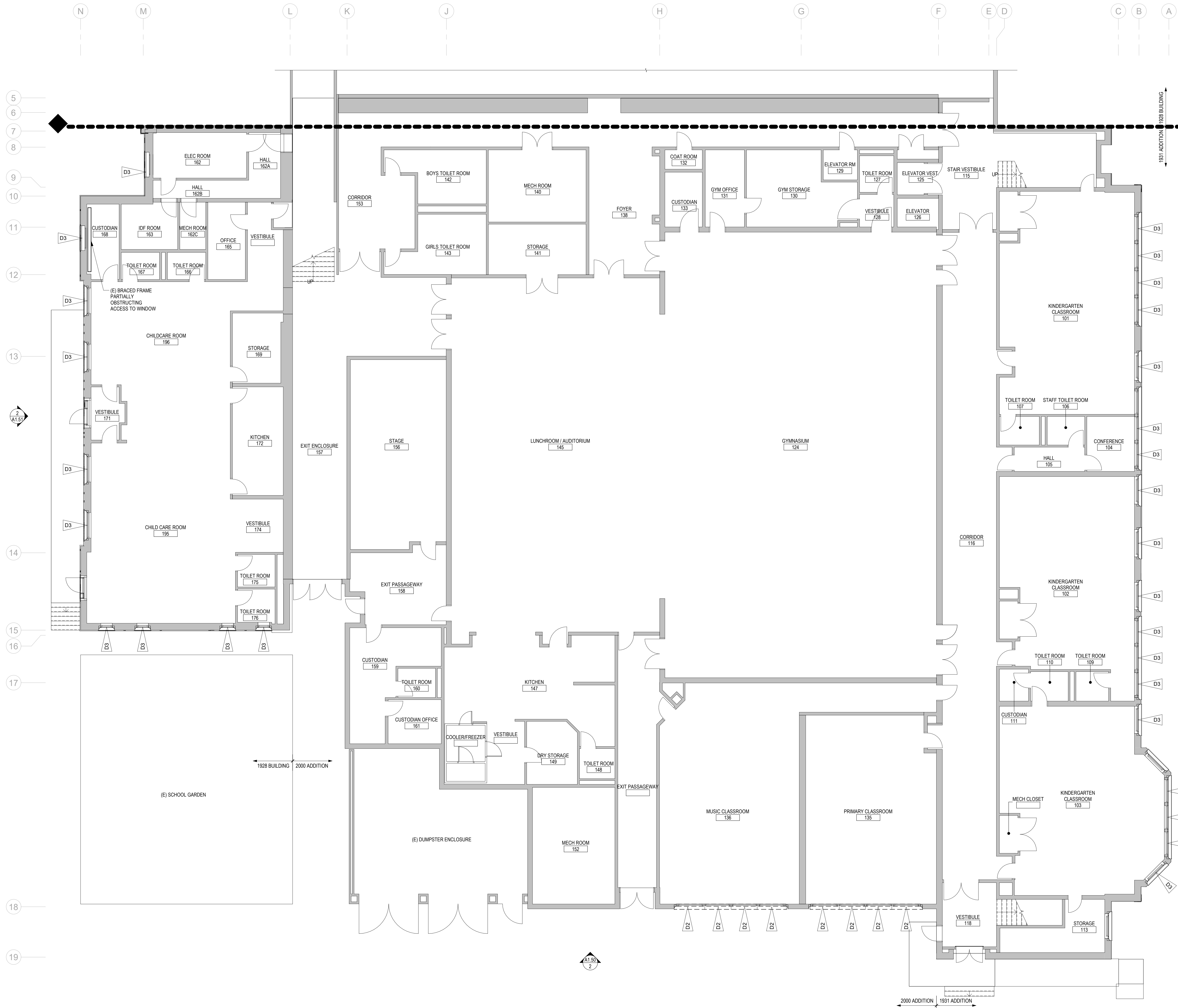
Certificate of Approval Set

03/31/26

Description	Date
Correction Response 01	05/08/26

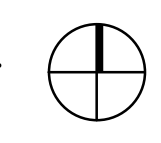
SELECTIVE DEMOLITION FLOOR PLAN - LEVEL 1

A1.21



1 Selective Demolition Plan - Level 1

1/8" = 1'-0"



Selective Demolition Plan General Notes

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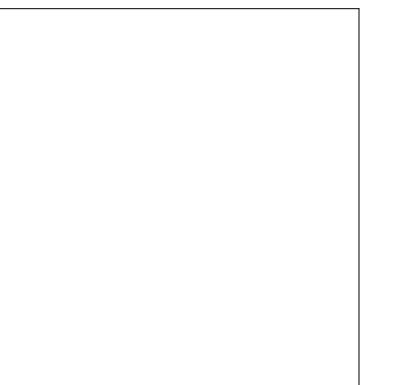
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Selective Demo Plan Legend

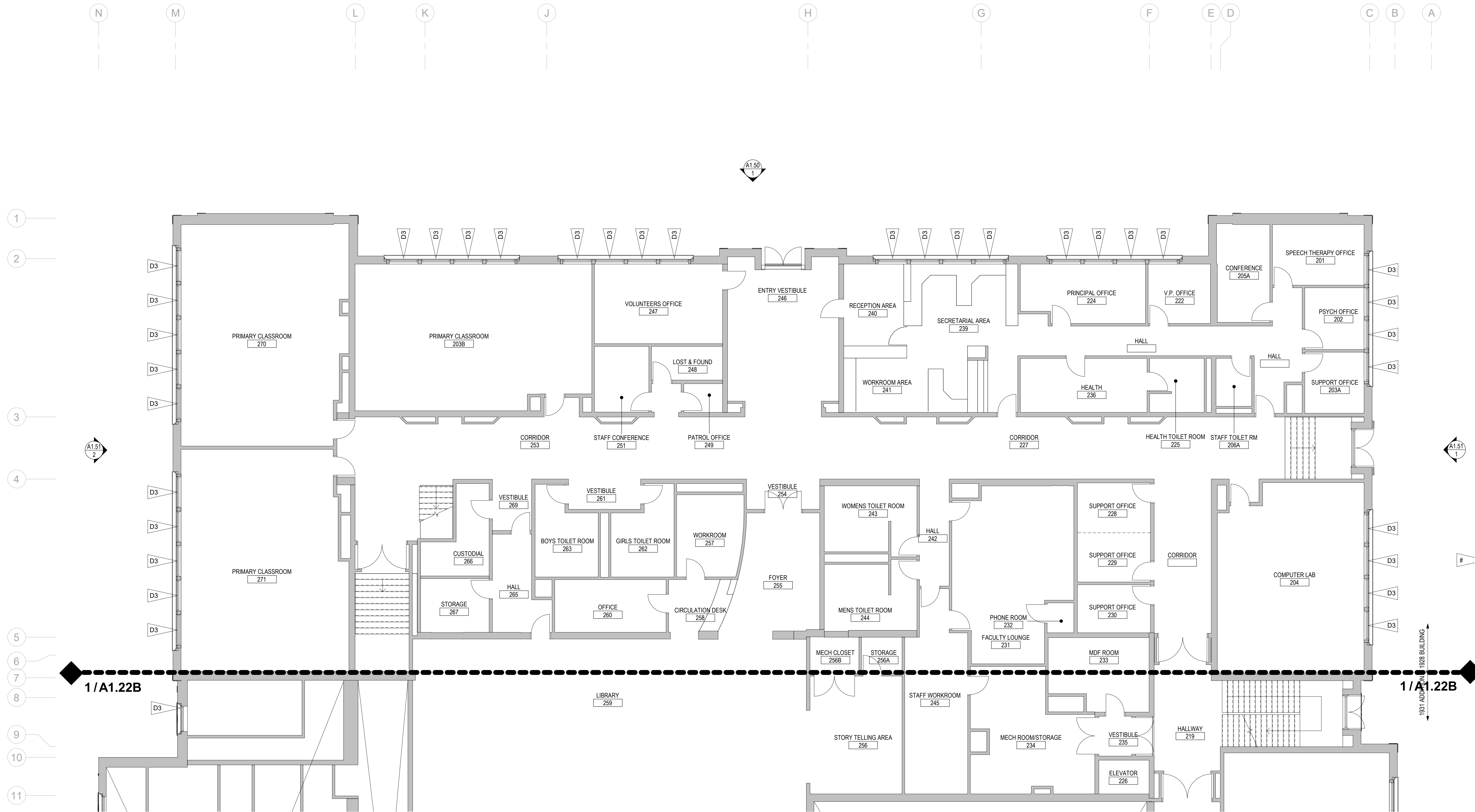
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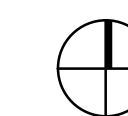


Description	Date
Correction Response 01	05/08/26



1 Selective Demolition Plan - Level 2 - Sector A

1/8" = 1'-0"



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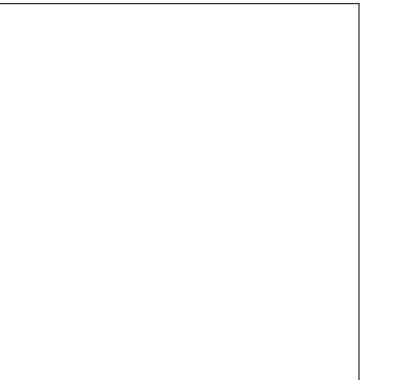
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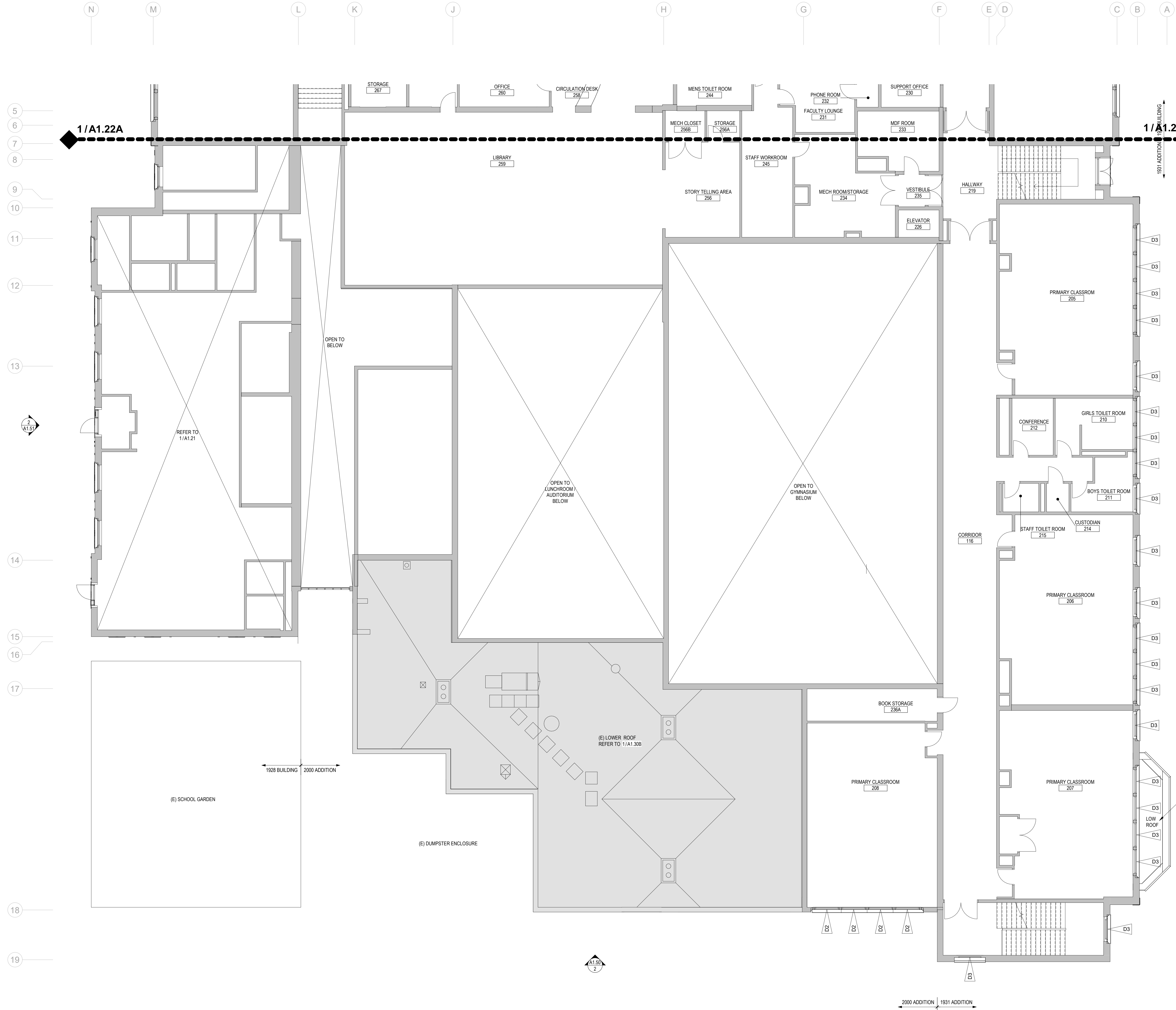


Certificate of Approval Set

03/31/26

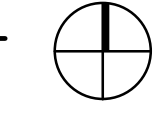
Description	Date
Correction Response 01	05/08/26

SELECTIVE DEMOLITION FLOOR PLAN - LEVEL 2 - SECTOR B



1 Selective Demolition Plan - Level 2 - Sector B

1/8" = 1'-0"



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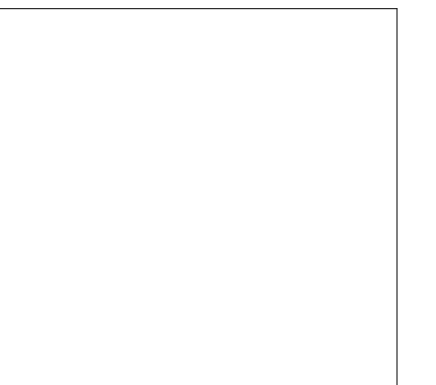
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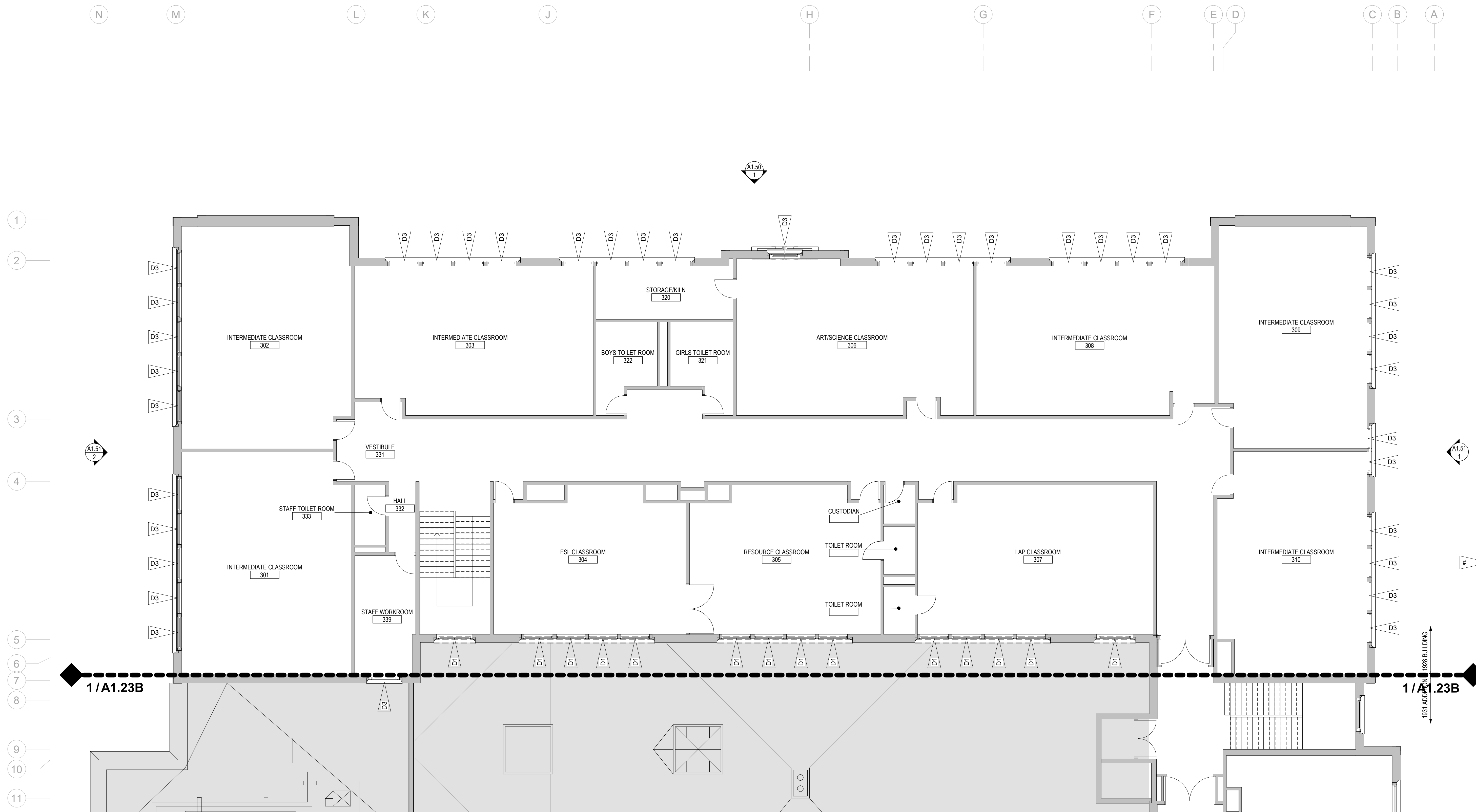
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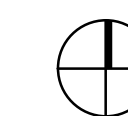


Description	Date
Correction Response 01	05/08/26



1 Selective Demolition Plan - Level 3 - Sector A

1/8" = 1'-0"



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 - PROVIDE FIELD ENGINEERING AND TEMPORARY SUPPORT FOR (E) CONSTRUCTION TO REMAIN AS NECESSARY.
 - PROTECT ALL ITEMS AND FINISHES TO REMAIN. CONTRACTOR TO COORDINATE WITH FINAL FINISH REQUIREMENTS FOR ITEMS AND FINISHES TO REMAIN. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ITEMS DAMAGE DURING THE COURSE OF THE WORK.
 - REMOVE WINDOWS AND LOUVERS AT EXISTING OPENINGS SCHEDULED TO RECEIVE NEW WINDOWS OR LOUVERS. UNO. AND PREPARE OPENING TO RECEIVE WINDOW OR LOUVER. REFER TO ELEVATIONS, WINDOW SCHEDULE, AND DETAILS.
 - THE DEMOLITION PLANS INDICATE DEMOLITION FOR MAJOR OPENINGS REQUIRING SUBSTANTIAL COORDINATION WITH NEW WORK OF THE PROJECT. REFER TO STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR ADDITIONAL SCOPE OF DEMOLITION AND CUTTING FOR ALL PLUMBING, PIPING, AND CONDUIT, AND REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR CUTTING.
 - REFER TO SELECTIVE DEMO BUILDING ELEVATIONS FOR ADDITIONAL DEMOLITION REQUIREMENTS.

- ARCHITECTURAL**
- CONTRACTOR SHALL WALK THE SITE WITH THE OWNER'S REPRESENTATIVE TO IDENTIFY ANY ITEMS WHICH SHOULD BE SET ASIDE AND PROTECTED FOR OWNER SALVAGE AFTER REMOVAL. THE OWNER WILL TRANSPORT SUCH ITEMS FROM THE SITE.
 - WHERE DOOR FRAMES ARE DEMOLISHED, DOOR STOP TO ALSO BE DEMOLISHED.

- STRUCTURAL**
- PROTECT ALL STRUCTURAL COMPONENTS TO REMAIN AND IMMEDIATELY NOTIFY ARCHITECT IF ANY DAMAGE OCCURS.

- MECHANICAL**
- PLUMBING AND ROOF DRAINAGE INSTALLATIONS ARE SHOWN DIAGRAMMATICALLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE PRIOR TO BID AND DETERMINE THE FULL SCOPE OF DEMOLITION.
 - SAFELY TERMINATE ALL POWER AND PLUMBING LINES. REFER TO ALL APPLICABLE CODES.
 - COORDINATE WORK WITH THE OWNER'S UTILITIES SERVICE PROVIDERS.

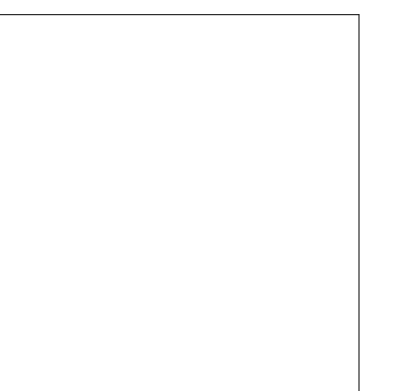
- ELECTRICAL**
- ELECTRICAL INSTALLATIONS ARE SHOWN DIAGRAMMATICALLY AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE PRIOR TO BID AND DETERMINE THE FULL SCOPE OF ELECTRICAL DEMOLITION.
 - COORDINATE ELECTRICAL AND TELECOM WORK WITH THE OWNER'S SERVICE PROVIDER.
 - MAKE ALL ELECTRICAL TERMINATIONS SAFELY AND PER CODE. REMOVE AND DISPOSE OF ALL ABANDONED MATERIAL.

Selective Demo Plan Legend

- EXISTING WALL AND ITEMS TO REMAIN, TYP
- EXISTING WALLS AND ITEMS TO BE DEMOLISHED, TYP
- CUT OPENING IN WALL, TYPICAL FRAMED WALL UNLESS INDICATED OTHERWISE, TYP
- DOOR AND FRAME TO BE DEMOLISHED, TYP

Selective Demolition Plan Flag Notes

- D1 DEMO WINDOW ASSEMBLY, REFER TO DEMO DETAIL A6.13, TYP. UNDER SEPARATE C OF A
- D2 DEMO WINDOW ASSEMBLY, REFER TO DEMO DETAIL A6.14, TYP. UNDER SEPARATE C OF A
- D3 PREPARE WINDOW ASSEMBLY FOR RESTORATION, REF BID ALTERNATES, TYP.



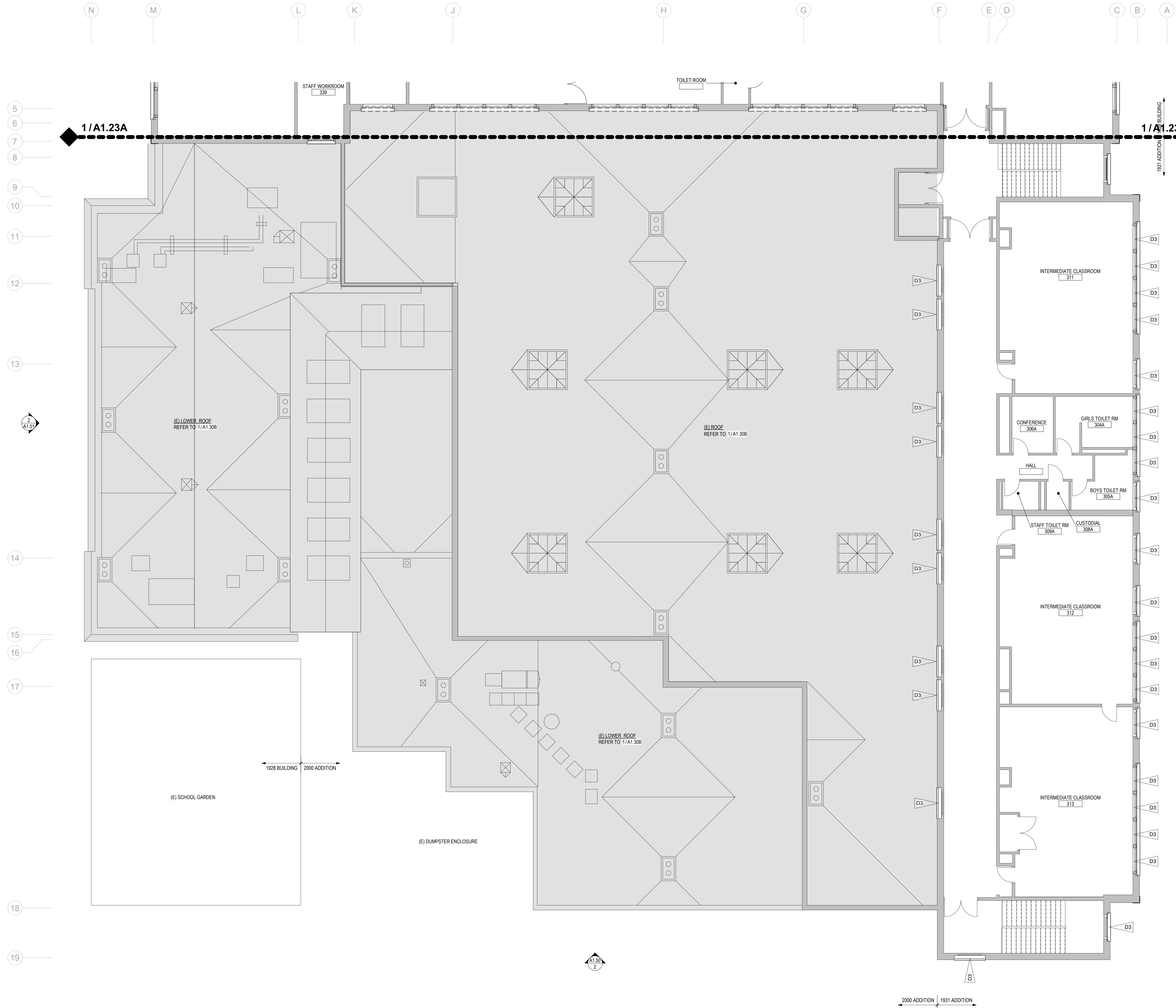
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DATE

03/31/26

Description	Date
Correction Response 01	05/08/26

SELECTIVE DEMOLITION FLOOR PLAN - LEVEL 3 - SECTOR B



1 Selective Demolition Plan - Level 3 - Sector B

1/8" = 1'-0"



**Selective Demolition Roof
Plan General Notes**

3311 NE 60th St, Seattle,
WA 98115

Miller Hayashi Architects
119 North 25th St, Suite 200
Seattle, Washington 98103
Tel: 206 634 0177
Fax: 206 634 0167

ARCHITECT'S STAMP



CONSULTANT

CONSULTANT'S STAMP

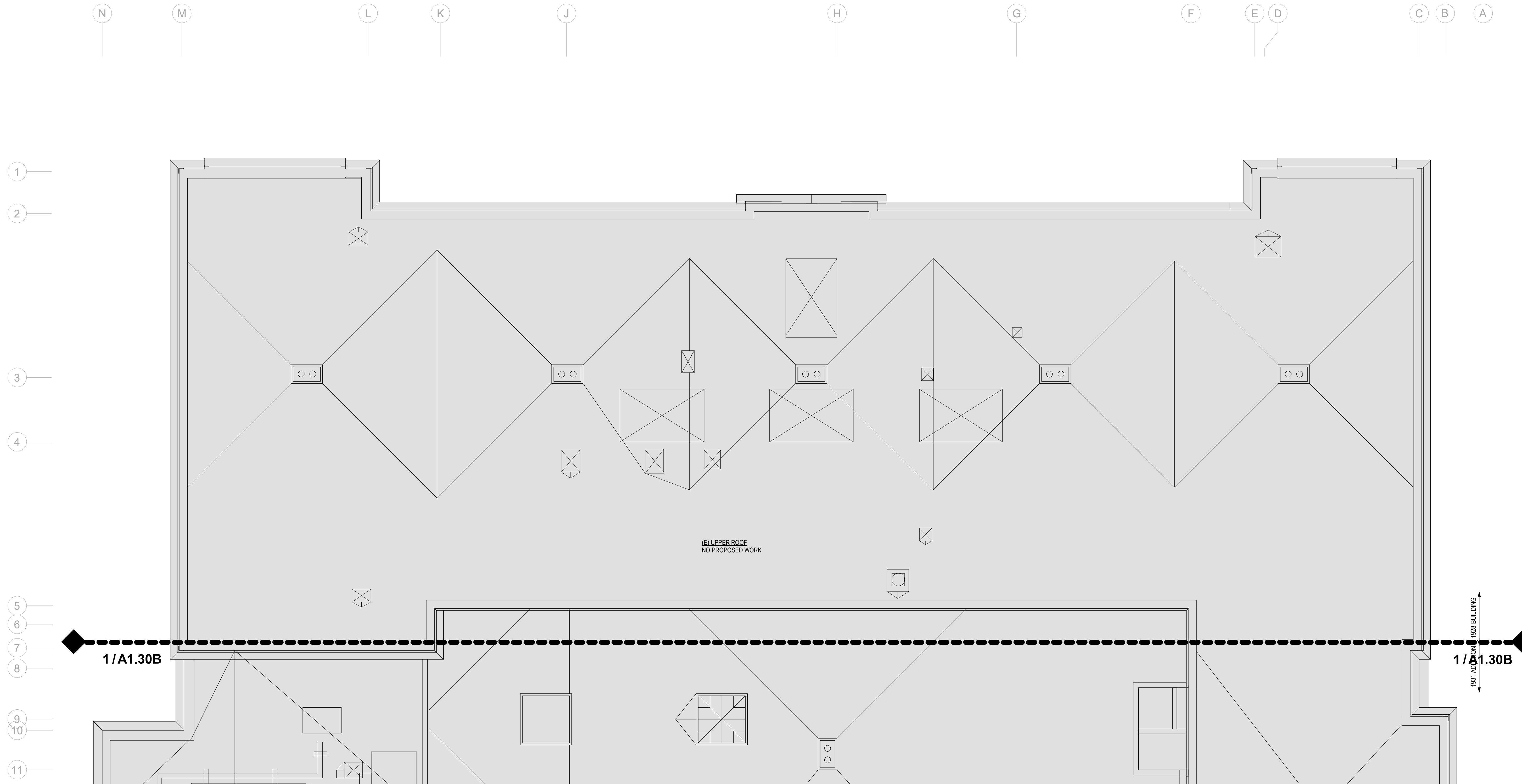
- GENERAL NOTES**
- CONTRACTOR TO REVIEW THE ENTIRE PROJECT DOCUMENTS AND PERFORM SELECTIVE DEMOLITION AS REQUIRED TO ACCOMPLISH THE NEW AND RENOVATION WORK OF THIS CONTRACT.
 - PROTECT AND REPAIR AS REQUIRED ALL ITEMS AND FINISHES INDICATED TO REMAIN.
 - WHERE ITEMS ARE INDICATED TO BE REMOVED AND PROTECTED FOR REINSTALLATION, CONTRACTOR SHALL REVIEW THE REQUIREMENTS FOR REINSTALLATION AND VERIFY THAT THE ITEMS ARE CAREFULLY REMOVED AND PROTECTED AND SHALL REPAIR, REFINISH OR REPLACE MATERIALS DAMAGED DURING REMOVAL AND STORAGE AS REQUIRED TO ACHIEVE A CONSISTENT AND UNIFORM APPEARANCE WHEN REINSTALLED.
 - CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND NOTIFY ARCHITECT AND ENVELOPE CONSULTANT OF DISCREPANCIES THAT MAY AFFECT THE FUNCTION OR FINISHED STRUCTURAL CAPACITIES AND FINISHED APPEARANCE OF THE WORK BEFORE PROCEEDING WITH DEMOLITION.
 - REFER TO SPECIFICATIONS AND OWNERS REPORT FOR IDENTIFICATION AND MITIGATION OF ASBESTOS OR OTHER HAZARDOUS MATERIALS. IDENTIFICATION AND MITIGATION WORK SHALL CONFORM TO ALL APPLICABLE STATE AND FEDERAL STANDARDS.

- ARCHITECTURAL**
- PROTECT EXISTING ROOF, ROOFING, FLASHINGS, BRICK MASONRY, WINDOWS, DOORS, AND OTHER EXTERIOR ELEMENTS DURING CONSTRUCTION. CONTRACTOR TO USE CARE WHEN WORKING IN VICINITY OF EXISTING ROOF AREAS AND PROTECT THE ROOF WHILE PERFORMING WORK. CONTRACTOR TO CONTACT MANUFACTURER AND MAINTAIN EXISTING WARRANTIES, TYP.
 - MAINTAIN BUILDING IN WEATHERTIGHT CONDITION DURING WORK.
 - DEMOLISH AND REMOVE LIMITED PORTIONS OF ROOFING ASSEMBLY DOWN TO ROOF DECK OR CONCRETE SUBSTRATE, INCLUDING BUT NOT LIMITED TO ALL ROOFING, INSULATION, FLASHING, COPING, ASPHALT MATERIALS, COVERBOARDS, AND FASTENERS.
 - CONTRACTOR TO WATER TEST ALL ROOF DRAINS AND RAIN LEADERS TO POINT OF CONNECTION WITH AHJ APPROVED OUTLET TO ASSURE FUNCTIONALITY PRIOR TO COMMENCEMENT OF ROOF DEMO AND INFORM ARCHITECT, OWNERS PROJECT MANAGER, AND ENVELOPE CONSULTANT OR CONSULTANT'S ROOF MONITOR OF ANY NON-FUNCTIONING CONDITIONS.
 - MECHANICALLY CLEAN ALL ROOF DRAINS, OVERFLOWS, GUTTERS, DOWNSPOUTS, AND RAIN LEADER PIPES IN AREAS OF WORK AND REPORT ANY BLOCKAGE THAT WILL AFFECT POSITIVE WATER DRAINAGE. CLEAN ALL ROOF DRAINS, GUTTERS, DOWNSPOUTS, AND LINES FROM ROOF DRAIN TO CITY STORM SYSTEM.
 - PROTECT EXISTING ROOF DRAINS, OVERFLOWS, GUTTERS, DOWNSPOUTS, AND RAIN LEADER PIPES DURING DURATION OF WORK. CONTRACTOR TO ENSURE ROOF DRAINS, GUTTERS, AND DOWNSPOUTS ARE FUNCTIONAL AND IS RESPONSIBLE FOR CLEARING ROOF DRAINS, GUTTERS, DOWNSPOUTS, AND DRAIN LINES AT ALL TIMES DURING THE WORK.
 - REFER TO REFLECTED CEILING PLANS FOR INTERIOR DEMO, TYP.

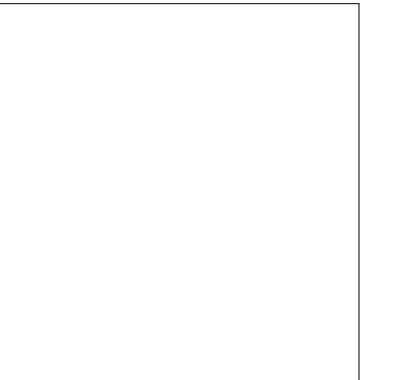
- STRUCTURAL**
- COORDINATE WITH STRUCTURAL DRAWINGS FOR EXTENT OF ADDITIONAL DEMOLITION SPECIFIC TO THE WORK.
- MECHANICAL**
- COORDINATE WITH MECHANICAL DRAWINGS FOR EXTENT OF ADDITIONAL DEMOLITION SPECIFIC TO THE WORK.
- ELECTRICAL**
- COORDINATE WITH ELECTRICAL DRAWINGS FOR EXTENT OF ADDITIONAL DEMOLITION SPECIFIC TO THE WORK.
- HAZARDOUS MATERIALS**
- COORDINATE WITH HAZARDOUS MATERIALS DRAWINGS FOR EXTENT OF ADDITIONAL DEMOLITION SPECIFIC TO THE WORK.

**Selective Demolition
Roof Plan Legend**

- EXISTING ROOF ASSEMBLY, TYP
- DEMOLISH ROOF ASSEMBLY AND ASSOCIATED FLASHING ASSEMBLIES



BUILDING DEPARTMENT'S STAMP



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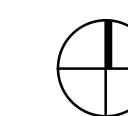
DATE

03/31/26

REVISIONS

Description Date

1 Selective Demolition Roof Plan - Sector A
1/8" = 1'-0"



SHEET TITLE

**SELECTIVE
DEMOLITION
ROOF PLAN -
SECTOR A**

SHEET NO.

A1.30A

MILLER HAYASHI ARCHITECTS 2513

Selective Demolition Roof Plan General Notes

3311 NE 60th St, Seattle, WA 98115

Miller Hayashi Architects
119 North 25th St, Suite 200
Seattle, Washington 98103
Tel: 206 634 0177
Fax: 206 634 0167

ARCHITECT'S STAMP



CONSULTANT

CONSULTANT'S STAMP

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- ARCHITECTURAL**
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 - REFER TO REFLECTED CEILING PLANS FOR INTERIOR DEMO, TYP.

- STRUCTURAL**
- COORDINATE WITH STRUCTURAL DRAWINGS FOR EXTENT OF ADDITIONAL DEMOLITION SPECIFIC TO THE WORK.

- MECHANICAL**
- COORDINATE WITH MECHANICAL DRAWINGS FOR EXTENT OF ADDITIONAL DEMOLITION SPECIFIC TO THE WORK.

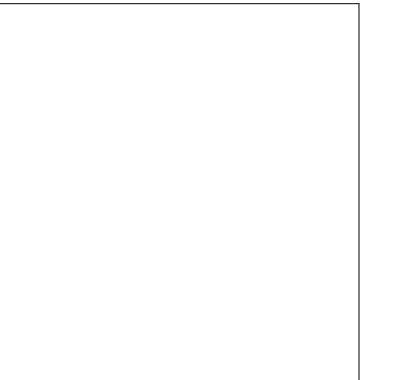
- ELECTRICAL**
- COORDINATE WITH ELECTRICAL DRAWINGS FOR EXTENT OF ADDITIONAL DEMOLITION SPECIFIC TO THE WORK.

- HAZARDOUS MATERIALS**
- COORDINATE WITH HAZARDOUS MATERIALS DRAWINGS FOR EXTENT OF ADDITIONAL DEMOLITION SPECIFIC TO THE WORK.

Selective Demolition Roof Plan Legend

- EXISTING ROOF ASSEMBLY, TYP
- DEMOLISH ROOF ASSEMBLY AND ASSOCIATED FLASHING ASSEMBLIES

BUILDING DEPARTMENT'S STAMP



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03/31/26

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Description Date

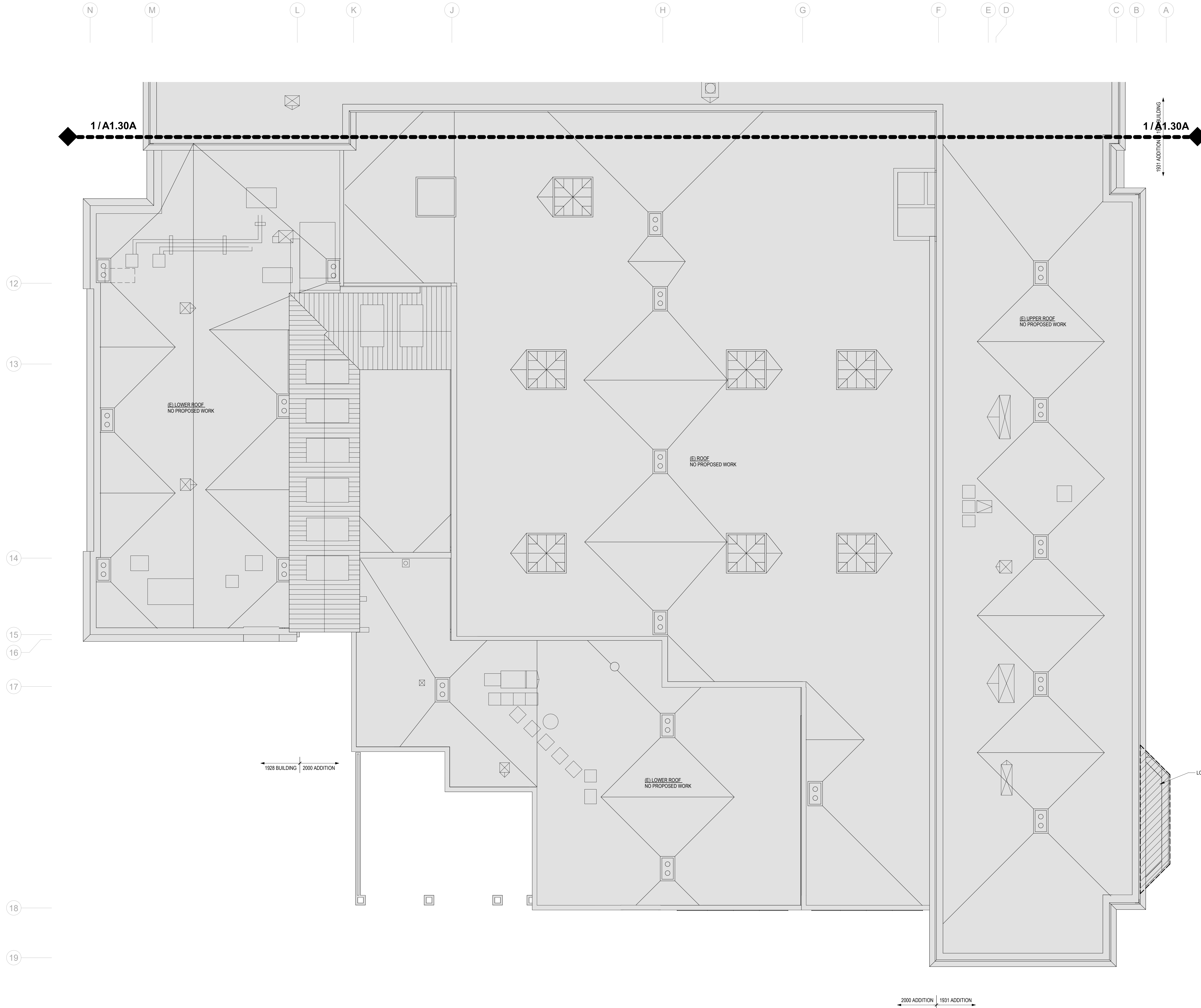
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SELECTIVE DEMOLITION ROOF PLAN - SECTOR B

SHEET NO.

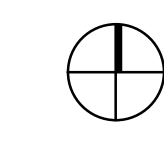
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MILLER HAYASHI ARCHITECTS 2513



1 Selective Demolition Roof Plan - Sector B

1/8" = 1'-0"



**Selective Demolition Building
Sections & Elevations General Notes**

1. REFER TO FLOOR PLANS FOR DIMENSIONS AND ADDITIONAL INFORMATION.

**Selective Demolition Exterior
Elevation Legend**

DEMOLISH ELEMENTS AS INDICATED.
EXISTING TO REMAIN

3311 NE 60th St, Seattle,
WA 98115

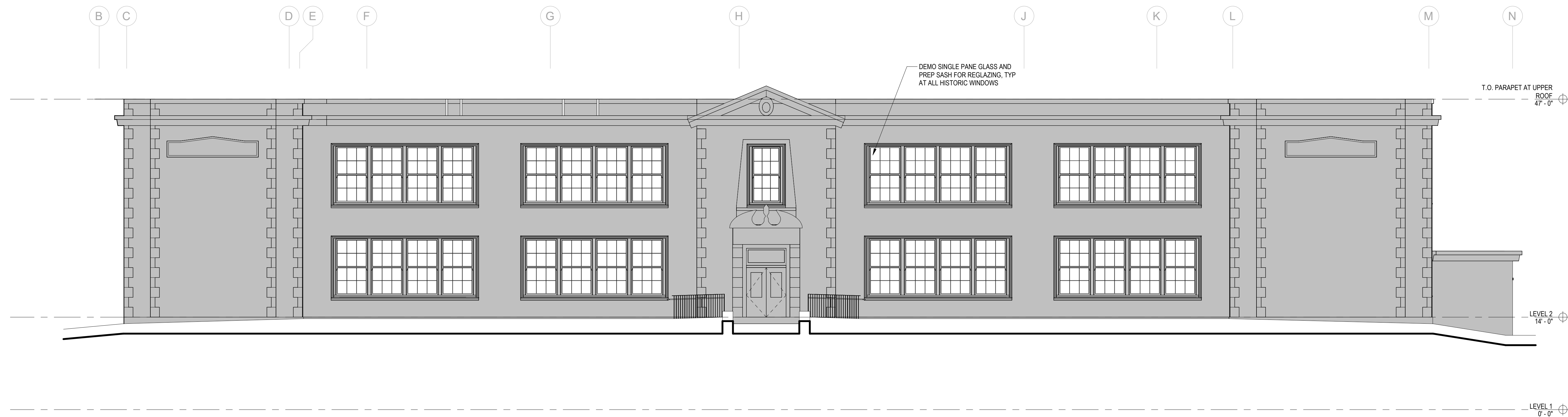
Miller Hayashi Architects
119 North 25th St, Suite 200
Seattle, Washington 98103
Tel: 206 634 0177
Fax: 206 634 0167

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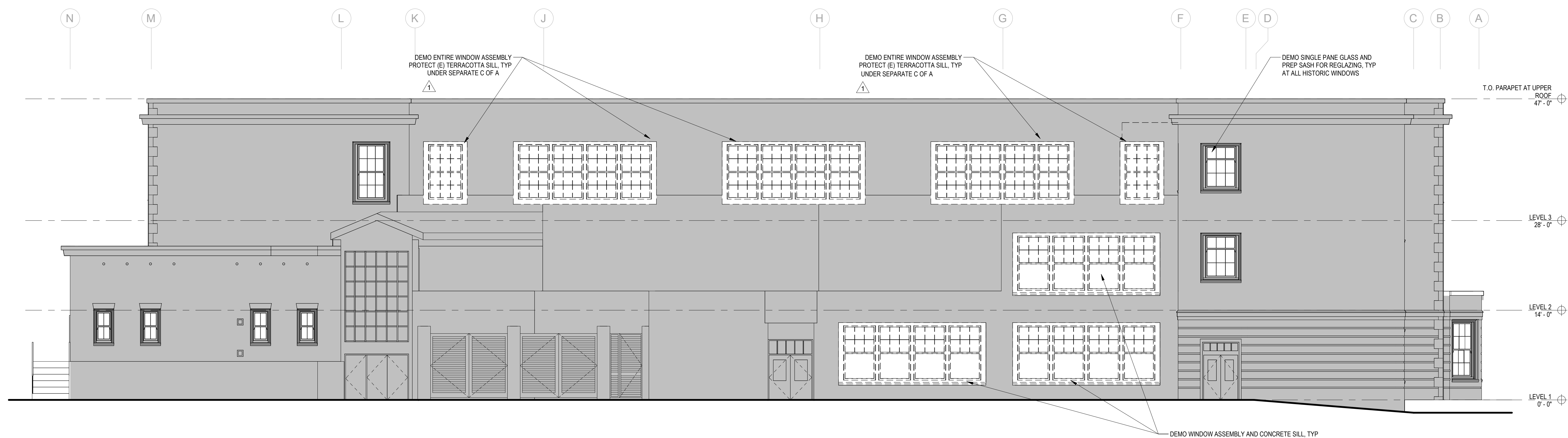
10419 REGISTERED
ARCHITECT
Laura Maman
LAURA R. MAMAN
STATE OF WASHINGTON

CONSULTANT

CONSULTANT'S STAMP

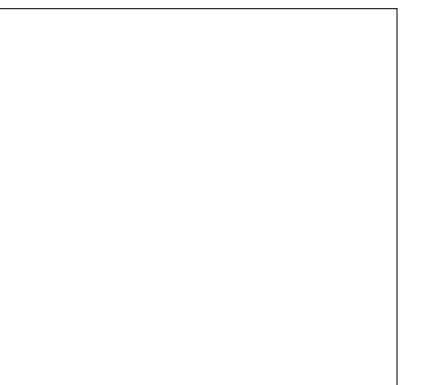


1 Selective Demolition Exterior Elevation - North
1/8" = 1'-0"



2 Selective Demolition Exterior Elevation - South
1/8" = 1'-0"

BUILDING DEPARTMENT'S STAMP



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Description	Date
Correction Response 01	05/08/26

SHEET TITLE

**SELECTIVE
DEMOLITION
BUILDING
SECTIONS &
ELEVATIONS**

SHEET NO.

A1.50

MILLER HAYASHI ARCHITECTS 2513

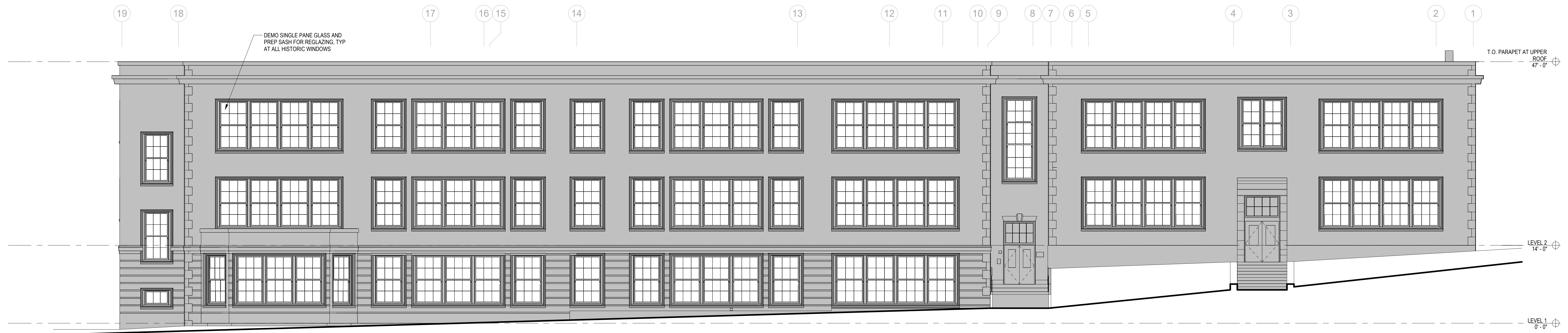
**Selective Demolition Building
Sections & Elevations General Notes**

1. REFER TO FLOOR PLANS FOR DIMENSIONS AND ADDITIONAL
INFORMATION.

**Selective Demolition Exterior
Elevation Legend**

 DEMOLISH ELEMENTS AS INDICATED.

 EXISTING TO REMAIN



1 Selective Demolition Exterior Elevation - East

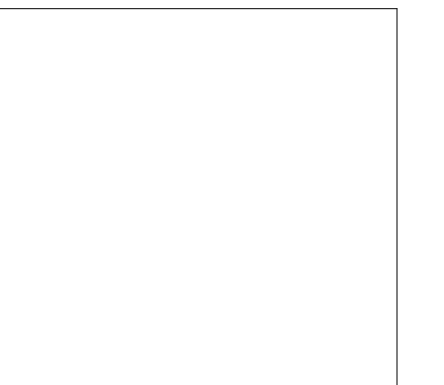
1/8" = 1'-0"



2 Selective Demolition Exterior Elevation - West

1/8" = 1'-0"

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Description	Date

SHEET TITLE

**SELECTIVE
DEMOLITION
BUILDING
SECTIONS &
ELEVATIONS**

SHEET NO.

A1.51

Floor Plan General Notes

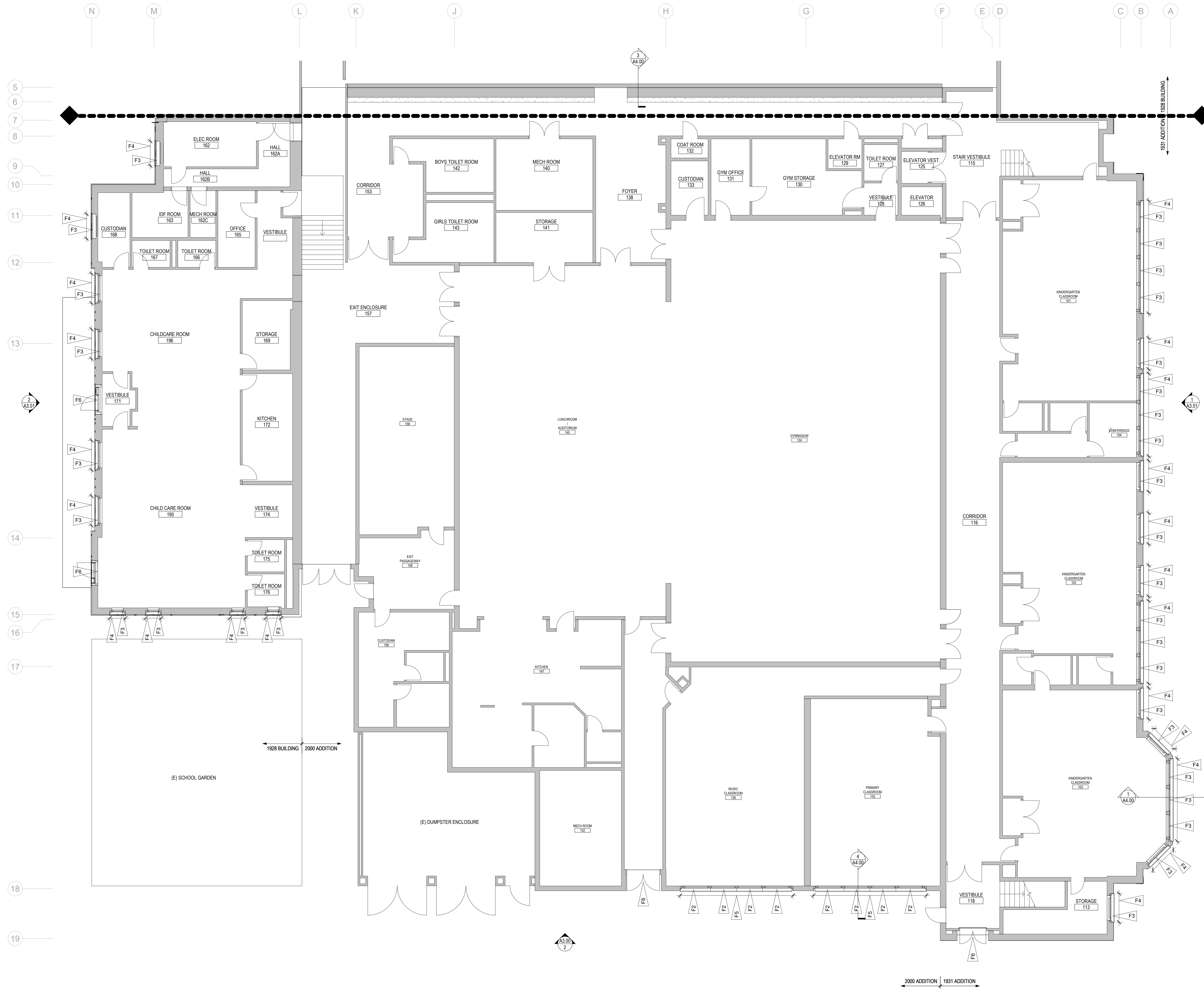
- REFER TO GENERAL NOTES ON SHEET AA1.00
- ALL DIMENSIONS TO NEW PARTITIONS ARE TO FACE OF FRAMING UNLESS NOTED OTHERWISE
- DIMENSIONS TO EXISTING WALLS ARE EITHER TO FINISHED FACE OR TO GRID LINE
- INFILL WITHIN EXISTING CONSTRUCTION AND NEW PARTITIONS IMMEDIATELY ADJACENT TO EXISTING CONSTRUCTION SHALL MATCH EXISTING CONSTRUCTION. PATCHES, INFILL AND NEW PARTITIONS IMMEDIATELY ADJACENT TO OR WITHIN EXISTING PARTITIONS SHALL BE FINISHED TO BLEND SEAMLESSLY WITH EXISTING MATERIALS AND FINISH AND SHALL ALIGN WITH EXISTING FINISHES
- REPEITITIVE FEATURES DRAWN OR NOTED ONLY ONCE SHALL BE COMPLETELY PROVIDED AS IF DRAWN OR NOTED IN FULL
- DOOR OPENINGS LOCATED 4" FROM ADJACENT PARTITION UNLESS NOTED OTHERWISE
- COORDINATE EXTENTS OF CUTTING AND PATCHING AS REQUIRED FOR ALL WORK. PATCH AND REPAIR ALL AREAS OF CUTTING AND PATCHING TO MATCH ADJACENT FINISHES.

Floor Plan Legend

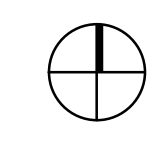
- EXISTING PARTITION TO REMAIN, TYP
- REFER FLAG NOTE
- INFILL AT EXISTING PARTITION, TYP

Floor Plan Flag Notes

- F1 PROVIDE WINDOW ASSEMBLY, REFER A6.13, TYP. UNDER SEPARATE C OF A
- F2 PROVIDE WINDOW ASSEMBLY, REFER A6.14, TYP. UNDER SEPARATE C OF A
- F3 RESTORE WINDOW ASSEMBLY, REFER TO WINDOW SCHEDULE, REF BID ALTERNATES, TYP
- F4 RESEAL (E) JOINTS AT TERRACOTTA SUBSILL. REVIEW AND APPROVAL OF MOCKUP BY THE SEATTLE DEPARTMENT OF NEIGHBORHOODS LANDMARKS COORDINATOR IS REQUIRED PRIOR TO START OF WORK FOR TERRACOTTA AT SUBSILL JOINT REPAIR, TYP.
- F5 PROVIDE PRECAST CONC SUBSILL, TYP.
- F6 REPAINT WD FRAME AT TRANSOM ABOVE DOOR, REPLACE GLAZING IN TRANSOM, REF A2.72, TYP.



1 Floor Plan - Level 1
1/8" = 1'-0"



Floor Plan General Notes

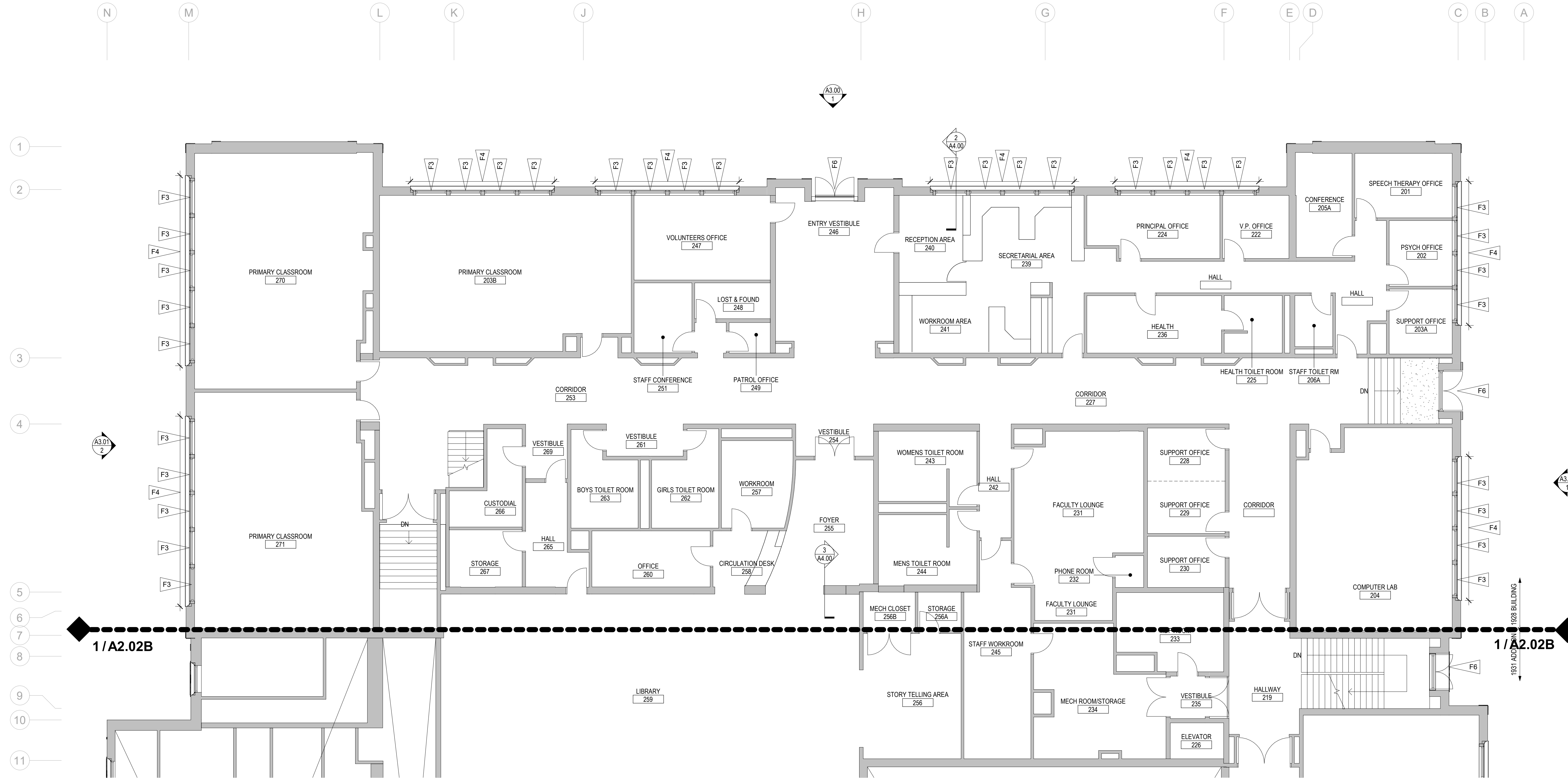
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2. ALL DIMENSIONS TO NEW PARTITIONS ARE TO FACE OF FRAMING UNDO.
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5. REFINITIVE FEATURES DRAWN OR NOTED ONLY ONCE SHALL BE COMPLETELY PROVIDED AS IF DRAWN OR NOTED IN FULL.
6. DOOR OPENINGS LOCATED 4" FROM ADJACENT PARTITION UNDO.
7. COORDINATE EXTENTS OF CUTTING AND PATCHING AS REQUIRED FOR ALL WORK. PATCH AND REPAIR ALL AREAS OF CUTTING AND PATCHING TO MATCH ADJACENT FINISHES.

Floor Plan Legend

- EXISTING PARTITION TO REMAIN, TYP
- REFER FLAG NOTE
- INFILL AT EXISTING PARTITION, TYP

Floor Plan Flag Notes

- F1 PROVIDE WINDOW ASSEMBLY, REFER A6.13, TYP. UNDER SEPARATE C OF A
- F2 PROVIDE WINDOW ASSEMBLY, REFER A6.14, TYP. UNDER SEPARATE C OF A
- F3 RESTORE WINDOW ASSEMBLY, REFER TO WINDOW SCHEDULE, REF BID ALTERNATES, TYP.
- F4 RESEAL (E) JOINTS AT TERRACOTTA SUBSILL. REVIEW AND APPROVAL OF MOCKUP BY THE SEATTLE DEPARTMENT OF NEIGHBORHOODS LANDMARKS COORDINATOR IS REQUIRED PRIOR TO START OF WORK FOR TERRACOTTA AT SUBSILL JOINT REPAIR, TYP.
- F5 PROVIDE PRECAST CONC SUBSILL, TYP.
- F6 REPAINT WD FRAME AT TRANSOM ABOVE DOOR, REPLACE GLAZING IN TRANSOM, REF A2.72, TYP.



1 Floor Plan - Level 2 - Sector A
1/8" = 1'-0"

BUILDING DEPARTMENT'S STAMP

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DATE

03/31/26

REVISIONS

Description	Date
Correction Response 01	05/08/26

SHEET TITLE

FLOOR PLAN - LEVEL 2 - SECTOR A

SHEET NO.

A2.02A

Floor Plan General Notes

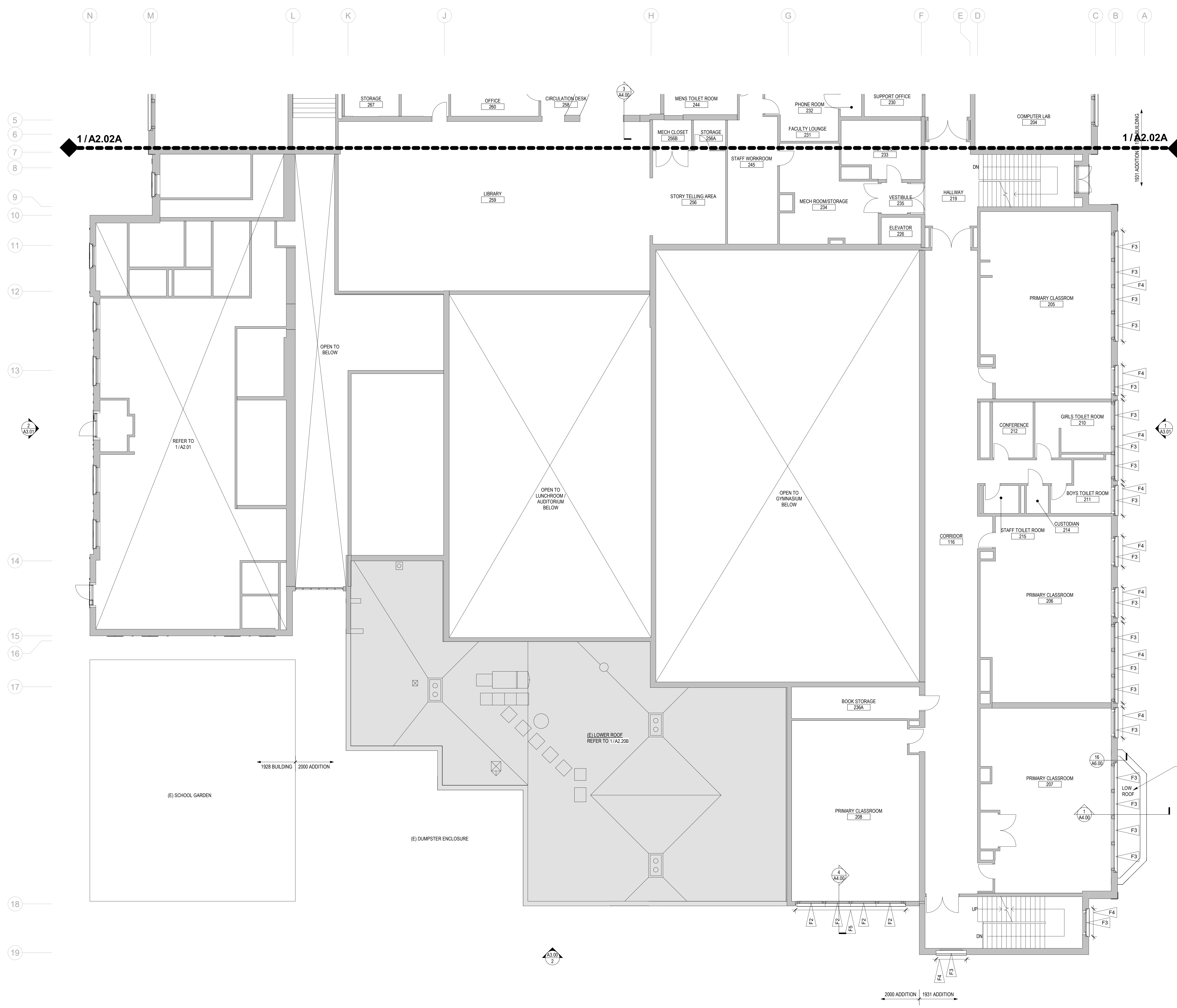
- REFER TO GENERAL NOTES ON SHEET AA1.00
- ALL DIMENSIONS TO NEW PARTITIONS ARE TO FACE OF FRAMING UNO
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Floor Plan Legend

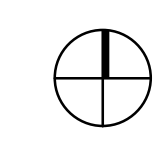
- EXISTING PARTITION TO REMAIN, TYP
- REFER FLAG NOTE
- INFILL AT EXISTING PARTITION, TYP

Floor Plan Flag Notes

- F1 PROVIDE WINDOW ASSEMBLY, REFER A6.13, TYP. UNDER SEPARATE C OF A
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1 Floor Plan - Level 2 - Sector B
NTS



Floor Plan General Notes

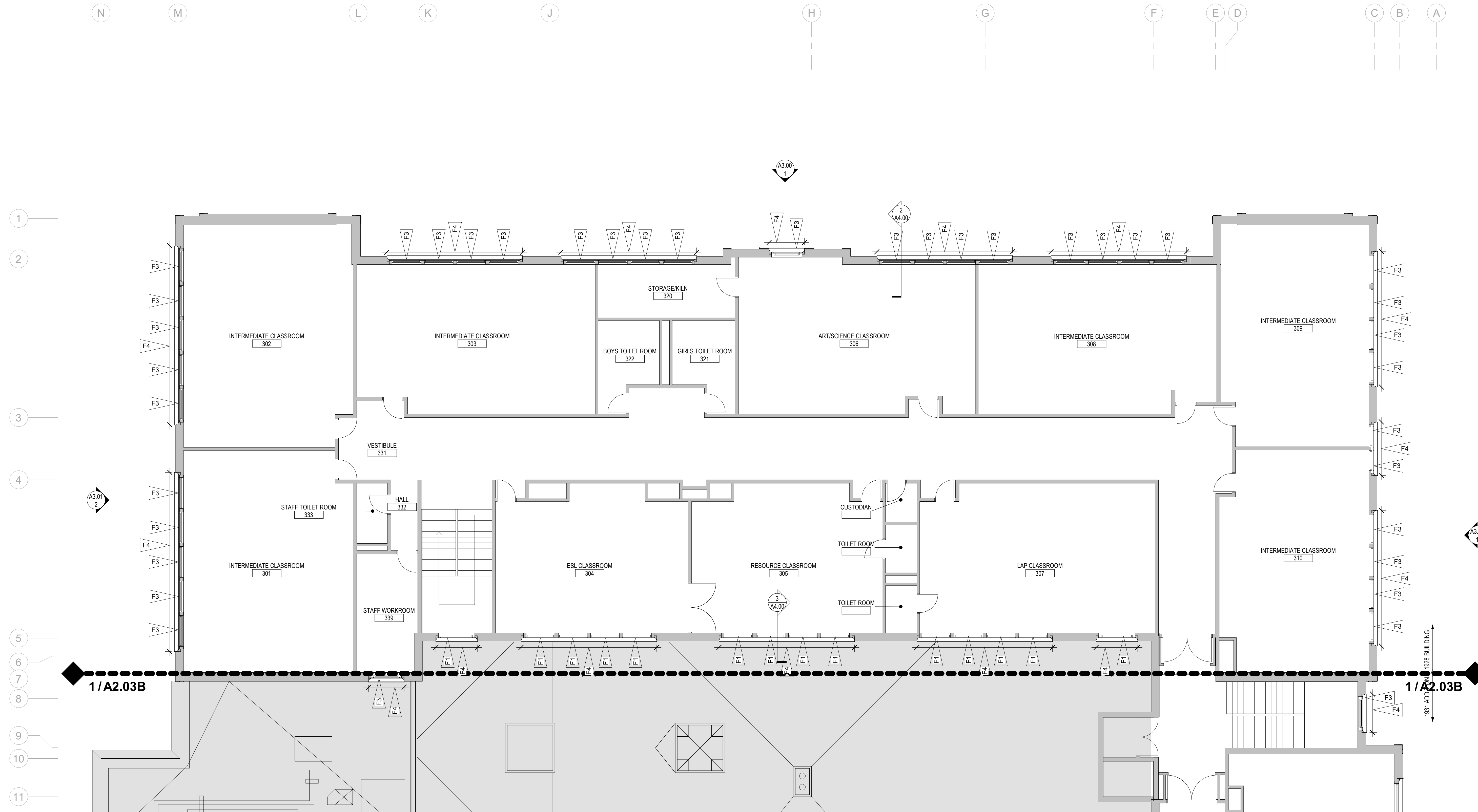
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- REPETITIVE FEATURES DRAWN OR NOTED ONLY ONCE SHALL BE COMPLETELY PROVIDED AS IF DRAWN OR NOTED IN FULL
- DOOR OPENINGS LOCATED 4" FROM ADJACENT PARTITION UNDO
- COORDINATE EXTENTS OF CUTTING AND PATCHING AS REQUIRED FOR ALL WORK. PATCH AND REPAIR ALL AREAS OF CUTTING AND PATCHING TO MATCH ADJACENT FINISHES.

Floor Plan Legend

- EXISTING PARTITION TO REMAIN, TYP
- REFER FLAG NOTE
- INFILL AT EXISTING PARTITION, TYP

Floor Plan Flag Notes

- F1 PROVIDE WINDOW ASSEMBLY, REFER A6.13, TYP. UNDER SEPARATE C OF A
- F2 PROVIDE WINDOW ASSEMBLY, REFER A6.14, TYP. UNDER SEPARATE C OF A
- F3 RESTORE WINDOW ASSEMBLY, REFER TO WINDOW SCHEDULE, REF BID ALTERNATES, TYP.
- F4 RESEAL (E) JOINTS AT TERRACOTTA SUBSILL. REVIEW AND APPROVAL OF MOCKUP BY THE SEATTLE DEPARTMENT OF NEIGHBORHOODS LANDMARKS COORDINATOR IS REQUIRED PRIOR TO START OF WORK FOR TERRACOTTA AT SUBSILL JOINT REPAIR, TYP.
- F5 PROVIDE PRECAST CONC SUBSILL, TYP.
- F6 REPAINT WD FRAME AT TRANSOM ABOVE DOOR, REPLACE GLAZING IN TRANSOM, REF A2.72, TYP.



1 Floor Plan - Level 3 - Sector A
1/8" = 1'-0"

Floor Plan General Notes

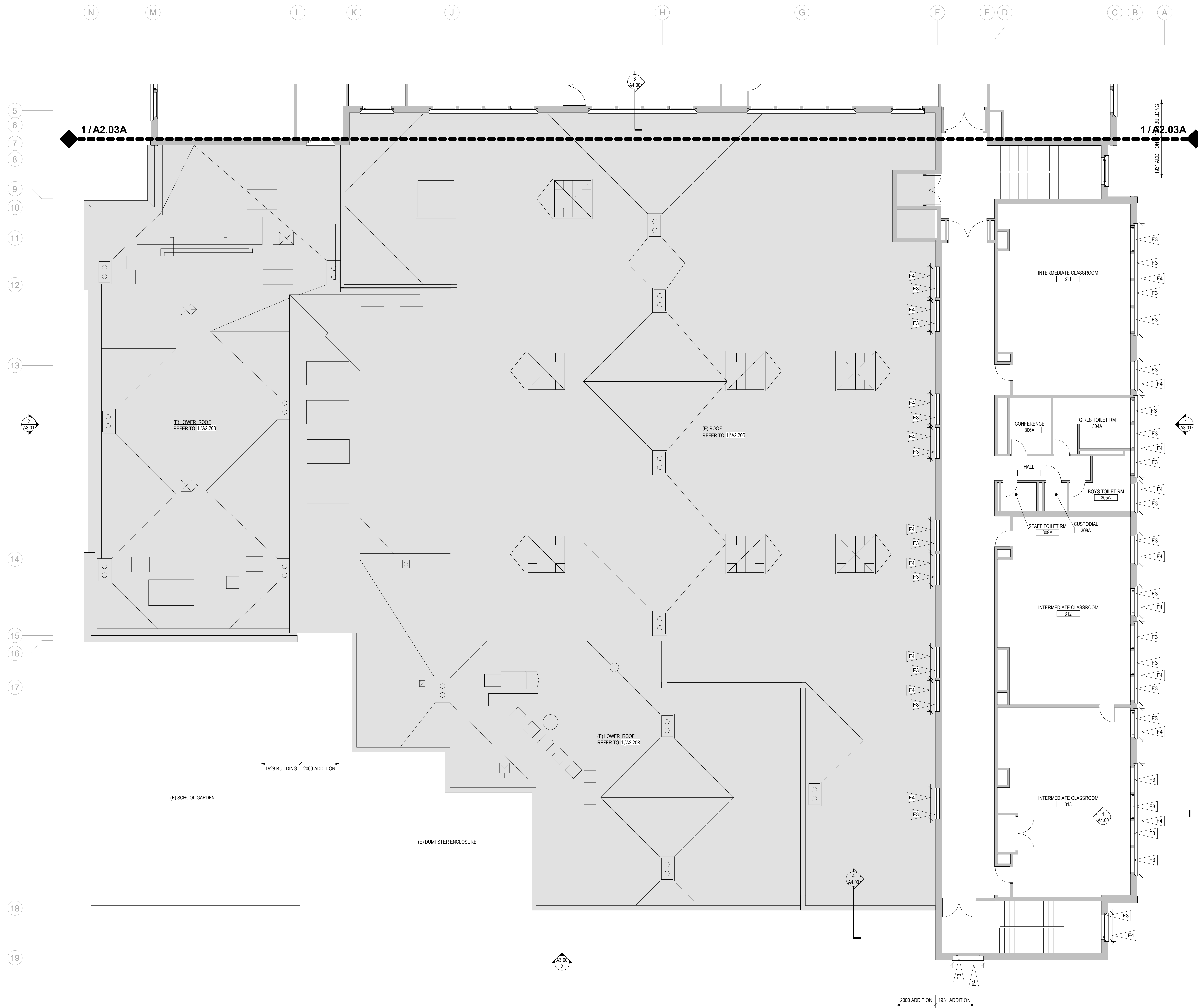
- REFER TO GENERAL NOTES ON SHEET AA1.00
- ALL DIMENSIONS TO NEW PARTITIONS ARE TO FACE OF FRAMING UNDO
- DIMENSIONS TO EXISTING WALLS ARE EITHER TO FINISHED FACE OR TO GRID LINE
- INFILL WITHIN EXISTING CONSTRUCTION AND NEW PARTITIONS IMMEDIATELY ADJACENT TO EXISTING CONSTRUCTION SHALL MATCH EXISTING CONSTRUCTION. PATCHES, INFILL AND NEW PARTITIONS IMMEDIATELY ADJACENT TO OR WITHIN EXISTING PARTITIONS SHALL BE FINISHED TO BLEND SEAMLESSLY WITH EXISTING MATERIALS AND FINISH AND SHALL ALIGN WITH EXISTING FINISHES
- REPETITIVE FEATURES DRAWN OR NOTED ONLY ONCE SHALL BE COMPLETELY PROVIDED AS IF DRAWN OR NOTED IN FULL.
- DOOR OPENINGS LOCATED 4" FROM ADJACENT PARTITION UNDO
- COORDINATE EXTENTS OF CUTTING AND PATCHING AS REQUIRED FOR ALL WORK. PATCH AND REPAIR ALL AREAS OF CUTTING AND PATCHING TO MATCH ADJACENT FINISHES.

Floor Plan Legend

- EXISTING PARTITION TO REMAIN, TYP
- REFER FLAG NOTE
- INFILL AT EXISTING PARTITION, TYP

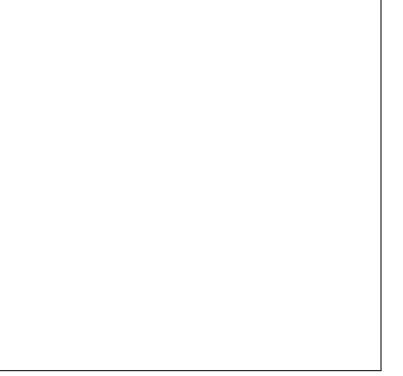
Floor Plan Flag Notes

- F1 PROVIDE WINDOW ASSEMBLY, REFER A6.13, TYP. UNDER SEPARATE C OF A
- F2 PROVIDE WINDOW ASSEMBLY, REFER A6.14, TYP. UNDER SEPARATE C OF A
- F3 RESTORE WINDOW ASSEMBLY, REFER TO WINDOW SCHEDULE, REF BID ALTERNATES, TYP
- F4 RESEAL (E) JOINTS AT TERRACOTTA SUBSILL. REVIEW AND APPROVAL OF MOCKUP BY THE SEATTLE DEPARTMENT OF NEIGHBORHOODS LANDMARKS COORDINATOR IS REQUIRED PRIOR TO START OF WORK FOR TERRACOTTA AT SUBSILL JOINT REPAIR, TYP.
- F5 PROVIDE PRECAST CONC SUBSILL, TYP.
- F6 REPAINT WD FRAME AT TRANSOM ABOVE DOOR, REPLACE GLAZING IN TRANSOM, REF A2.72, TYP.



1 Floor Plan - Level 3 - Sector B
1/8" = 1'-0"

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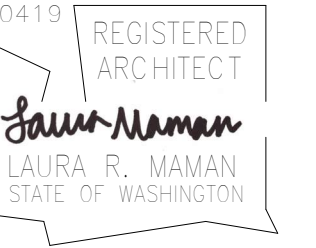
Description	Date
Correction Response 01	05/08/26

SHEET TITLE

FLOOR PLAN - LEVEL 3 - SECTOR B

SHEET NO.

A2.03B

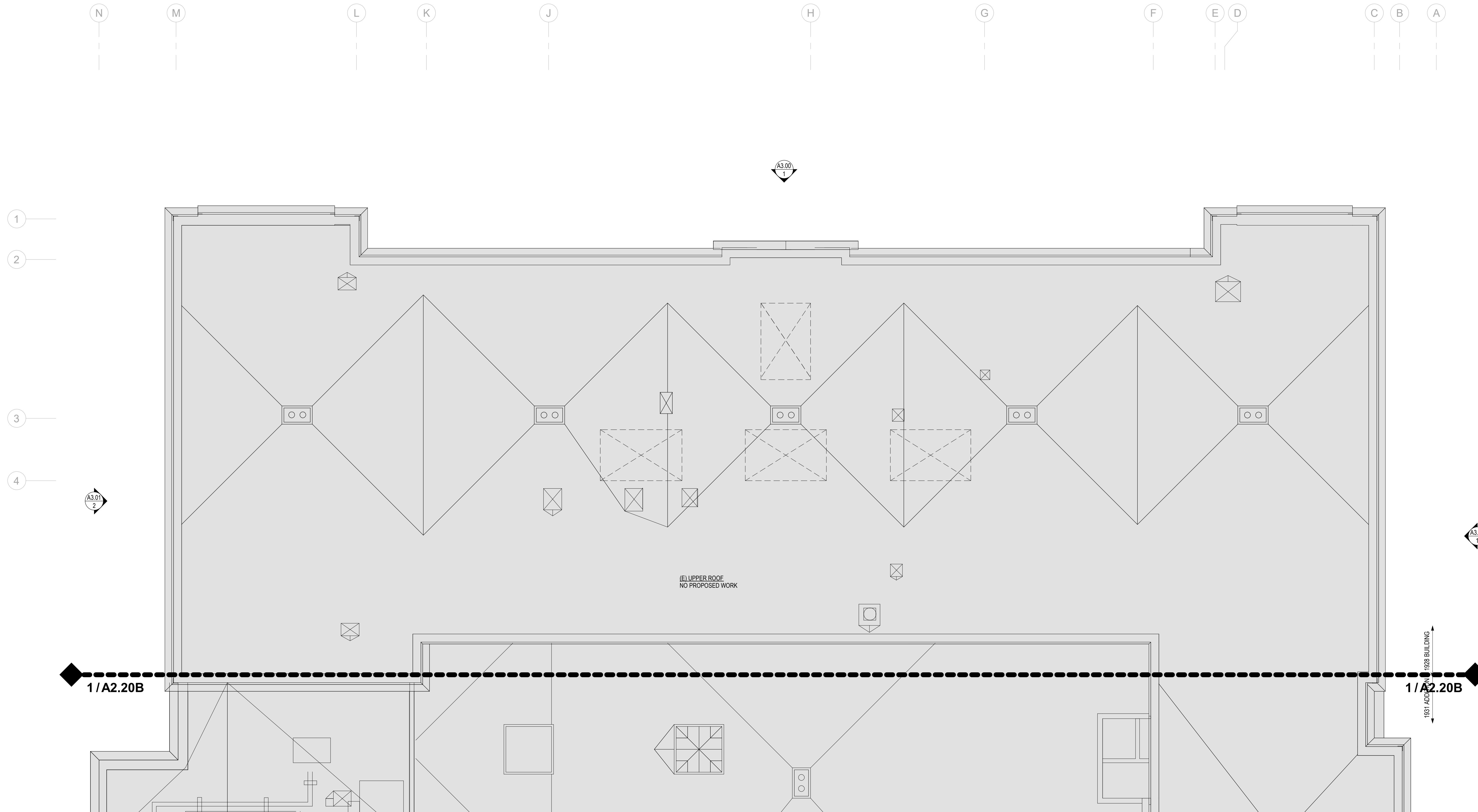


Roof Plan General Notes

- REFER TO GENERAL NOTES ON A4.10.
- REFER TO A4 AND A5 SERIES SHEETS FOR ROOF DECK EDGE DIMENSIONS FROM GRIDLINE.
- REFER TO A6 SERIES SHEETS FOR ROOF DETAILS.
- PROTECT EXISTING ROOF TO REMAIN DURING CONSTRUCTION. MAINTAIN EXISTING WARRANTIES.
- ALL ROOF CONSTRUCTION SHALL PROVIDE POSITIVE SLOPE TO DRAIN IN CONFORMANCE WITH NRCA PUBLISHED RECOMMENDATIONS, MINIMUM OF 1/4" PER FOOT SLOPE. TYPICAL: PROVIDE FIBERGLASS-FACED POLYISOCYANURATE RIGID INSULATION AND TAPERED POLYISOCYANURATE PANELS AT CRICKETS AS INDICATED.
- REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL AND HAZARDOUS MATERIALS SHEETS AND COORDINATE THE WORK.
- ALL ROOF PENETRATIONS SHALL BE LOCATED AWAY FROM ROOF VALLEYS AND OTHER APPURTENANCES AS RECOMMENDED BY NRCA IN THEIR 4TH EDITION ROOFING AND WATERPROOFING MANUAL, AND AS NOTED IN NRCA'S CONSTRUCTION DETAILS SECTION OF MANUAL.
- ALL ROOFS AND PENETRATIONS SHALL BE ROOFED AND FLASHED SO WEATHERPROOF AND WATERTIGHT. OVER MECHANICALLY ATTACHED THERMAL BARRIER BOARD, WITH PLIES FULLY ADHERED AND COURSES SEQUENCED IN A WATER-SHEDDING MANNER TO DIRECT WATER TO DRAINS, GUTTERS, AND SCUPPERS AND PREVENT LEAKAGE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW. SHOP DRAWINGS SHALL INCLUDE ROOF SYSTEM COMPONENTS AND ACCESSORIES INCLUDING ITEMS REQUIRED BUT NOT SPECIFICALLY DETAILED.
- THE ROOF PLAN DRAWINGS ARE DIAGRAMMATIC, AND NOT ALL REQUIRED ROOF PENETRATIONS ARE ILLUSTRATED. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL EQUIPMENT AND PIPING PENETRATIONS. PROVIDE CURBS, FLASHINGS, CRICKETS, COLLARS, ETC PER ARCHITECTURAL DETAILS FOR ALL PENETRATIONS AND EQUIPMENT WHETHER SHOWN ON THE ROOF PLAN OR NOT.
- EXTEND EXISTING PLUMBING VENT PIPING TO MINIMUM HEIGHT ABOVE FINISHED ROOF.
- ALL ROOF PATCH AREAS TO BE INSTALLED WEATHERPROOF AND WATERTIGHT, AND TO ENSURE PROPER DRAINAGE.
- PRIOR TO PERFORMING ANY ROOFING WORK, CONTRACTOR SHALL TEST ALL DRAIN LINES AND NOTIFY OWNER OF ANY LINES THAT ARE PLUGGED OR PARTIALLY PLUGGED. ANY DRAIN LINES THAT ARE SLOW DRAINING OR PLUGGED FOLLOWING THE WORK SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- REFER TO WALLS SECTIONS FOR TYPICAL ASSEMBLIES AND MINIMUM INSULATION REQUIREMENTS.

Roof Plan Legend

EXISTING ROOF TO REMAIN



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1 Roof Plan - Sector A
1/8" = 1'-0"

**ROOF PLAN -
SECTOR A**

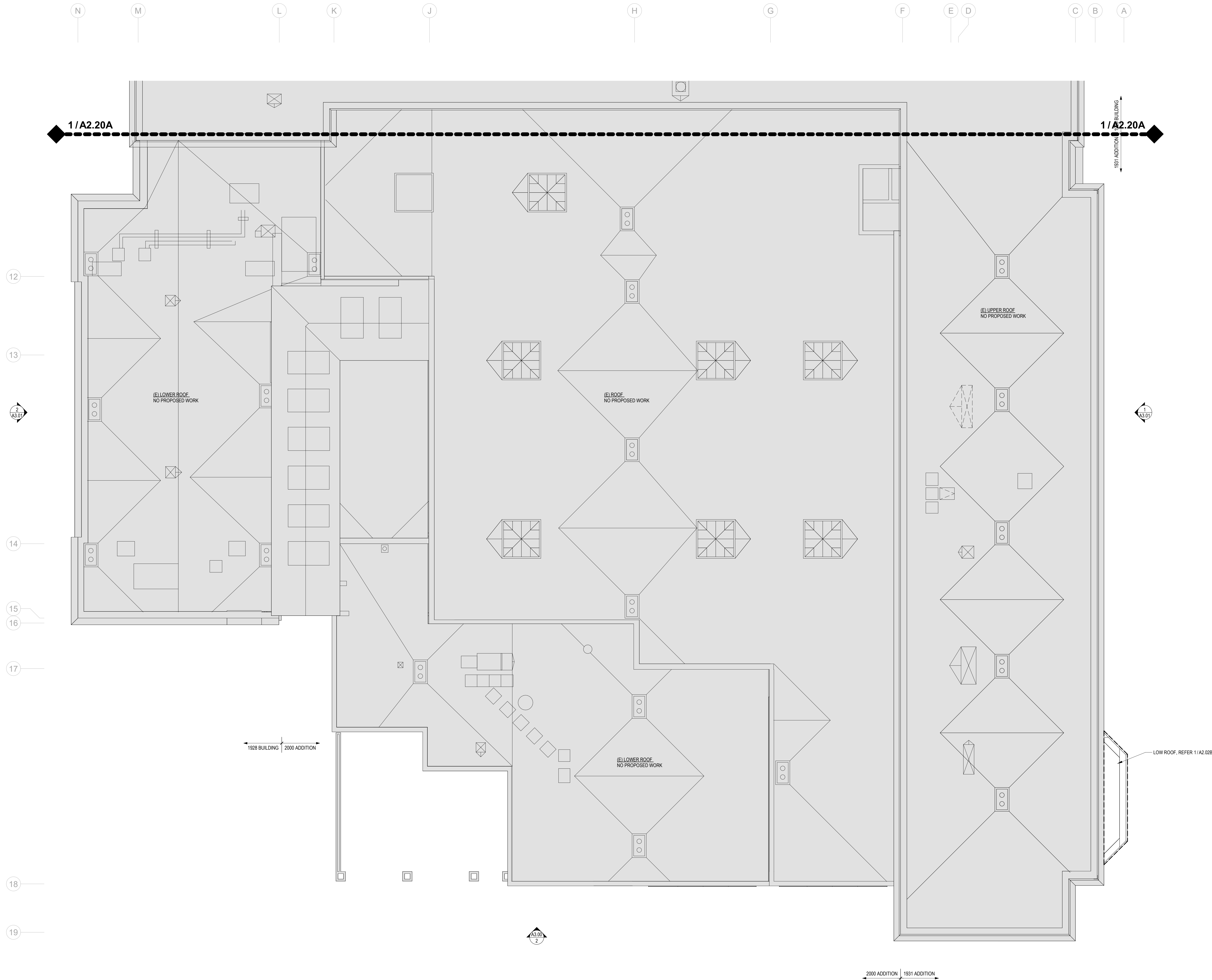
A2.20A

Roof Plan General Notes

1. REFER TO GENERAL NOTES ON A2.20
2. REFER TO A4 AND A6 SERIES SHEETS FOR ROOF DECK EDGE DIMENSIONS FROM GRIDLINE.
3. REFER TO A6 SERIES SHEETS FOR ROOF DETAILS.
4. PROTECT EXISTING ROOF TO REMAIN DURING CONSTRUCTION. MAINTAIN EXISTING WARRANTIES.
5. ALL ROOF CONSTRUCTION SHALL PROVIDE POSITIVE SLOPE TO DRAIN IN CONFORMANCE WITH NRCA PUBLISHED RECOMMENDATIONS, MINIMUM OF 1/4" PER FOOT SLOPE. TYPICAL: PROVIDE FIBERGLASS-FACED POLYISOCYANURATE RIGID INSULATION AND TAPERED POLYISOCYANURATE PANELS AT CRICKETS AS INDICATED.
6. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL AND HAZARDOUS MATERIALS SHEETS AND COORDINATE THE WORK.
7. ALL ROOF PENETRATIONS SHALL BE LOCATED AWAY FROM ROOF VALLEYS AND OTHER APPURTENANCES AS RECOMMENDED BY NRCA IN THEIR 4TH EDITION ROOFING AND WATERPROOFING MANUAL, AND AS NOTED IN NRCA'S CONSTRUCTION DETAILS SECTION OF MANUAL.
8. ALL ROOFS AND PENETRATIONS SHALL BE ROOFED AND FLASHED SO WEATHERPROOF AND WATERTIGHT, OVER MECHANICALLY ATTACHED THERMAL BARRIER BOARD, WITH PLIES FULLY ADHERED AND COURSES SEQUENCED IN A WATER-SHEDDING MANNER TO DIRECT WATER TO DRAINS, GUTTERS, AND SCUPPERS AND PREVENT LEAKAGE.
9. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW. SHOP DRAWINGS SHALL INCLUDE ROOF SYSTEM COMPONENTS AND ACCESSORIES INCLUDING ITEMS REQUIRED BUT NOT SPECIFICALLY DETAILED.
10. THE ROOF PLAN DRAWINGS ARE DIAGRAMMATIC, AND NOT ALL REQUIRED ROOF PENETRATIONS ARE ILLUSTRATED. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL EQUIPMENT AND PIPING PENETRATIONS. PROVIDE CURBS, FLASHINGS, CRICKETS, COLLARS, ETC PER ARCHITECTURAL DETAILS FOR ALL PENETRATIONS AND EQUIPMENT WHETHER SHOWN ON THE ROOF PLAN OR NOT.
11. EXTEND EXISTING PLUMBING VENT PIPING TO MINIMUM HEIGHT ABOVE FINISHED ROOF.
12. ALL ROOF PATCH AREAS TO BE INSTALLED WEATHERPROOF AND WATERTIGHT, AND TO ENSURE PROPER DRAINAGE.
13. PRIOR TO PERFORMING ANY ROOFING WORK, CONTRACTOR SHALL TEST ALL DRAIN LINES AND NOTIFY OWNER OF ANY LINES THAT ARE PLUGGED OR PARTIALLY PLUGGED. ANY DRAIN LINES THAT ARE SLOW DRAINING OR PLUGGED FOLLOWING THE WORK SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
14. REFER TO WALLS SECTIONS FOR TYPICAL ASSEMBLIES AND MINIMUM INSULATION REQUIREMENTS.

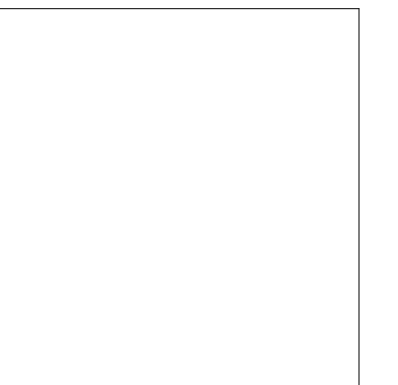
Roof Plan Legend

EXISTING ROOF TO REMAIN



1 Roof Plan - Sector B
1/8" = 1'-0"

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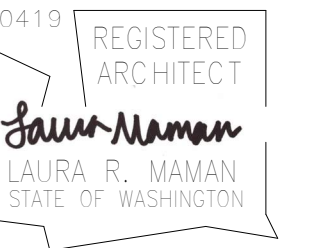
Description	Date

SHEET TITLE

ROOF PLAN - SECTOR B

SHEET NO.

A2.20B



**Wood Window Restoration
Key Notes**

1. REPLACE DETERIORATED PARTING BEAD TO MATCH (E) PROFILE
2. ADJUST ROPE TO RESTORE OPERABILITY AT LOWER SASH
- 3A. WD REPAIR LEVEL 1 - WOOD PUTTY TO FILL GOUGES
- 3B. WD REPAIR LEVEL 2 - WOOD CONSOLIDATION
- 3C. WD REPAIR LEVEL 3 - SECTION LOSS, REPLACE WOOD PROFILE, CUSTOM CUT TO MATCH (E) PROFILE

Exterior Elevation Legend

- EXISTING WINDOW TYPE, REF A2.72 FOR WINDOW TYPES
- WINDOW / ENTRANCE TYPE, REF A2.72 FOR WINDOW TYPES
- EXISTING TO REMAIN
- REPOINT BRICK
- REMOVE AND REINSTALL BRICK FOR THROUGH WALL FLASHING
- REFER TO WOOD WINDOW RESTORATION KEY NOTES



1 Exterior Elevation - North

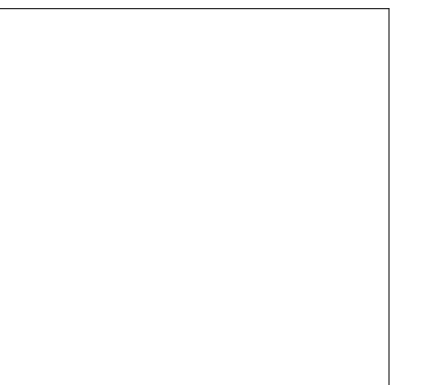
1/8" = 1'-0"



2 Exterior Elevation - South

1/8" = 1'-0"

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SHEET TITLE

**BUILDING
SECTIONS &
ELEVATIONS**

SHEET NO.

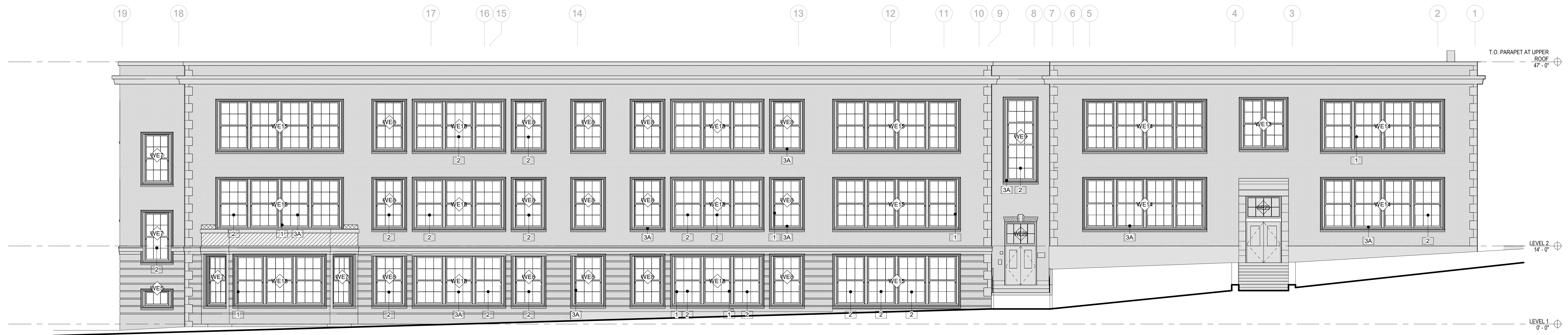
A3.00

Wood Window Restoration Key Notes

1. REPLACE DETERIORATED PARTING BEAD TO MATCH (E) PROFILE
2. ADJUST ROPE TO RESTORE OPERABILITY AT LOWER SASH
- 3A. WD REPAIR LEVEL 1 - WOOD PUTTY TO FILL GOUGES
- 3B. WD REPAIR LEVEL 2 - WOOD CONSOLIDATION
- 3C. WD REPAIR LEVEL 3 - SECTION LOSS, REPLACE WOOD PROFILE, CUSTOM CUT TO MATCH (E) PROFILE

Exterior Elevation Legend

- ◊ WE1 EXISTING WINDOW TYPE, REF A2.72 FOR WINDOW TYPES
- ◊ WE2 WINDOW / ENTRANCE TYPE, REF A2.72 FOR WINDOW TYPES
- ▭ EXISTING TO REMAIN
- ▨ REPOINT BRICK
- ▩ REMOVE AND REINSTALL BRICK FOR THROUGH WALL FLASHING
- [] REFER TO WOOD WINDOW RESTORATION KEY NOTES

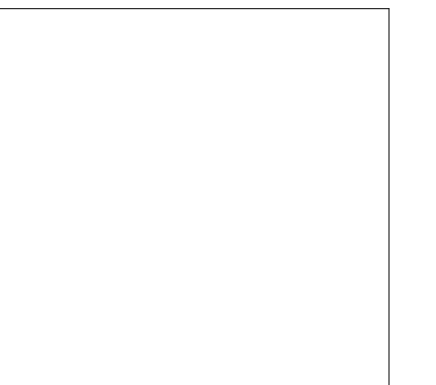


1 Exterior Elevation - East
1/8" = 1'-0"



2 Exterior Elevation - West
1/8" = 1'-0"

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Correction Response 01	05/08/26

SHEET TITLE

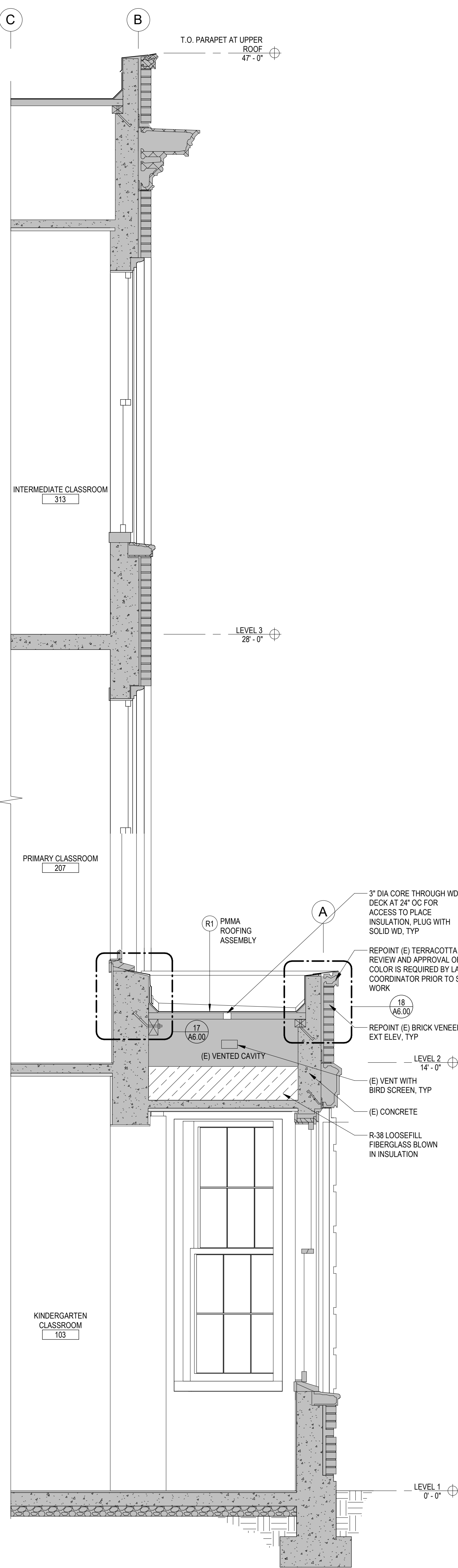
BUILDING SECTIONS & ELEVATIONS

SHEET NO.

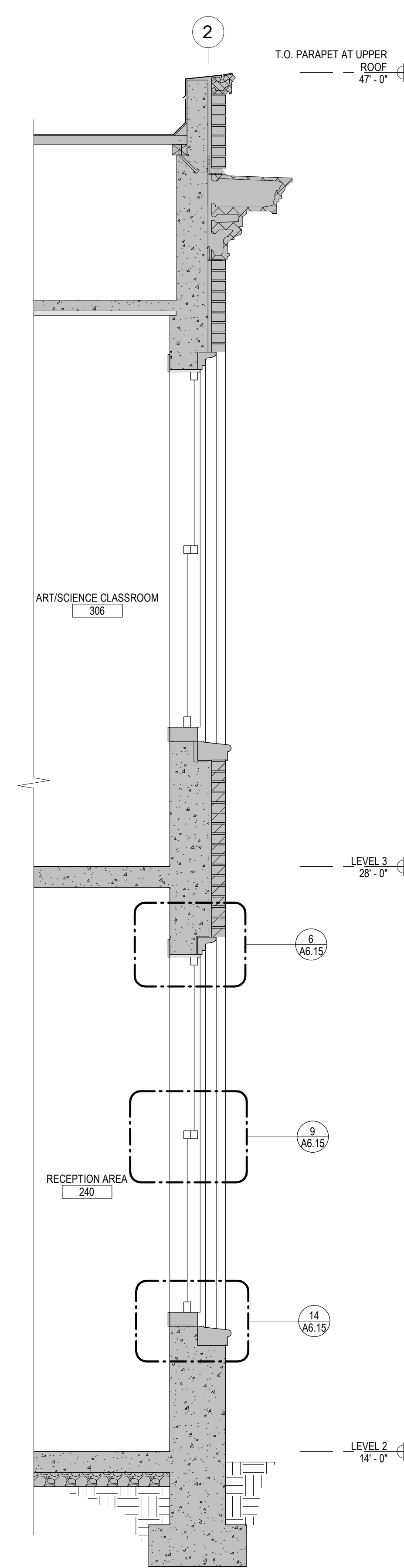
A3.01

**Construction Assemblies Schedule /
Wall Section Key Notes**

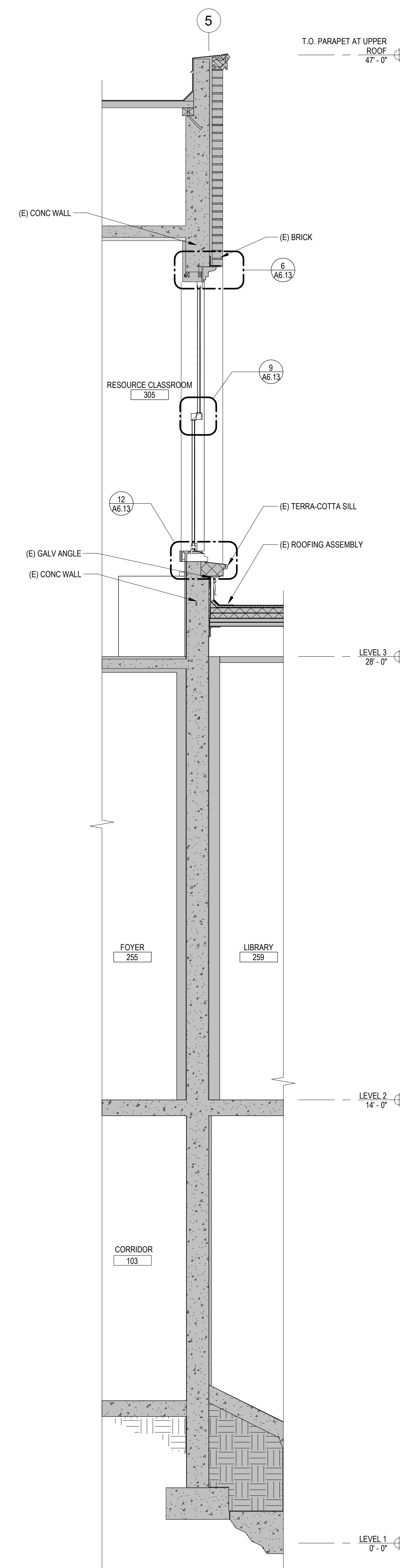
(R1) TYPICAL PMMA ROOF ASSEMBLY



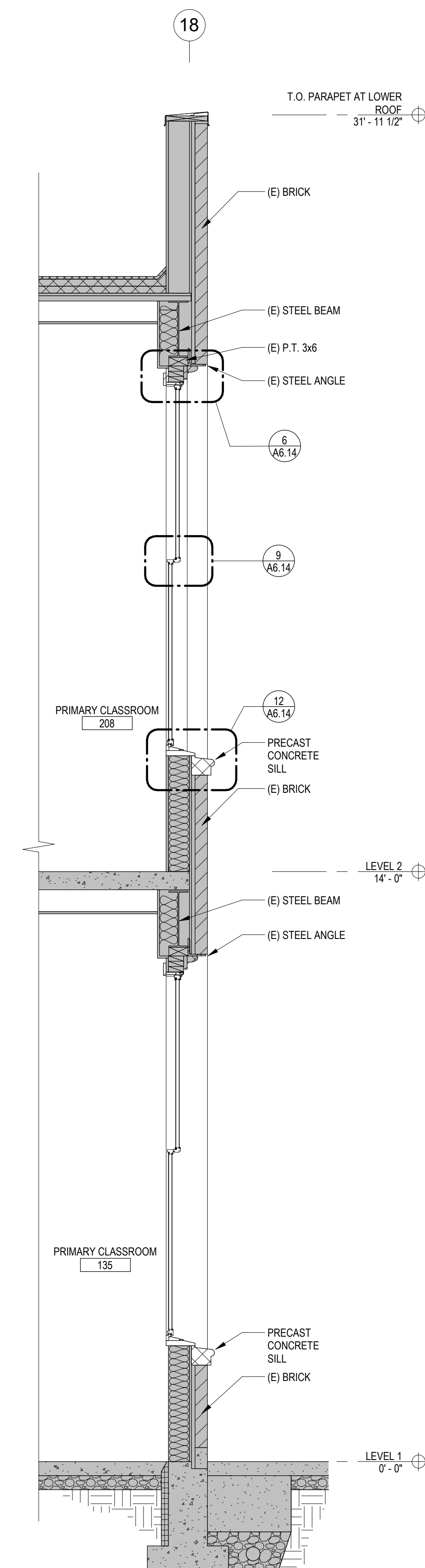
1 Wall Section at Kindergarten Bay Window
1/2" = 1'-0"



2 Wall Section at 1928 Building - North
1/2" = 1'-0"



3 Wall Section at 1928 Building to 2000 Addition
1/2" = 1'-0"



4 Wall Section at 2000 Addition - South
1/2" = 1'-0"

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SHEET TITLE

WALL SECTIONS

SHEET NO.

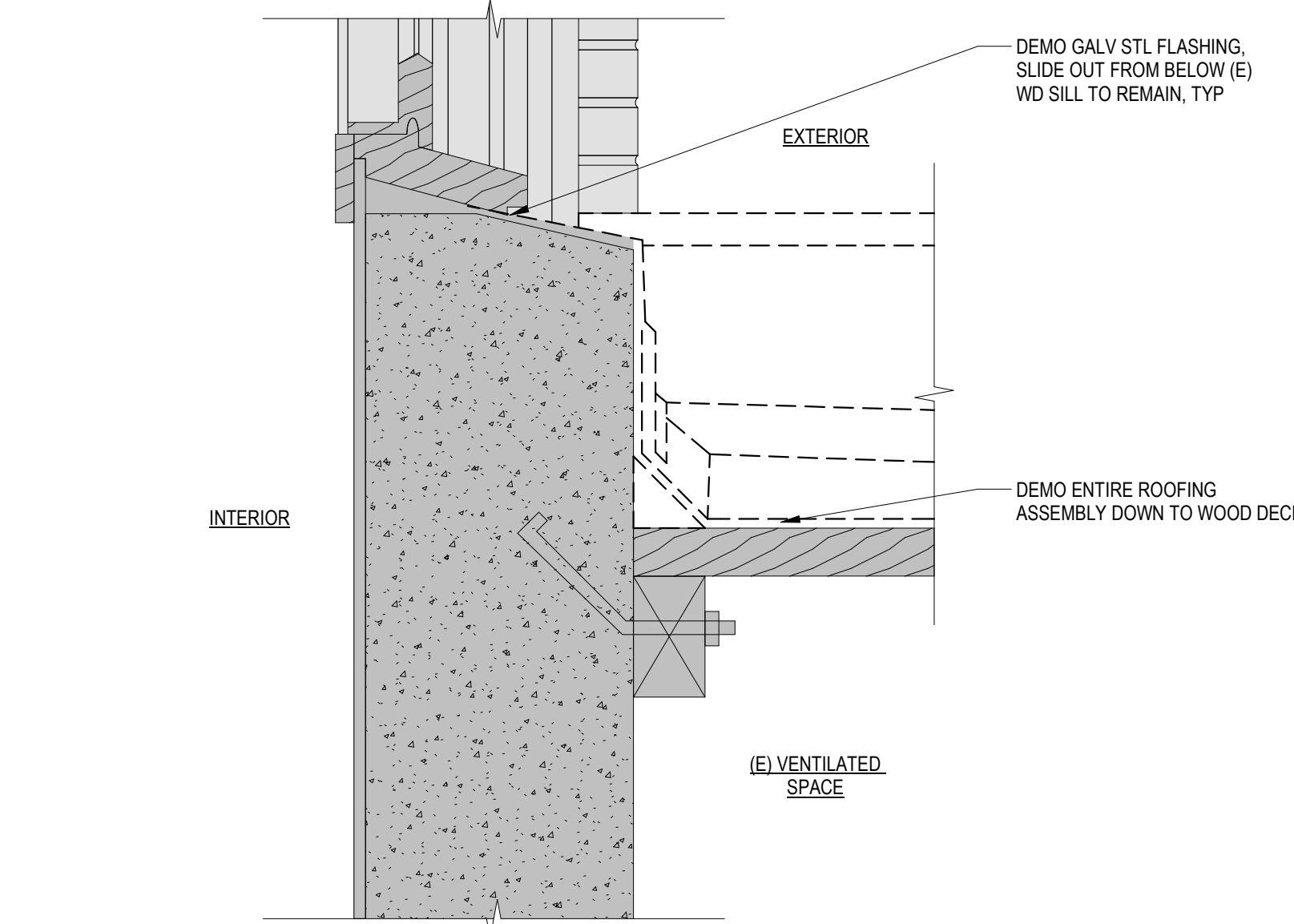
A4.00



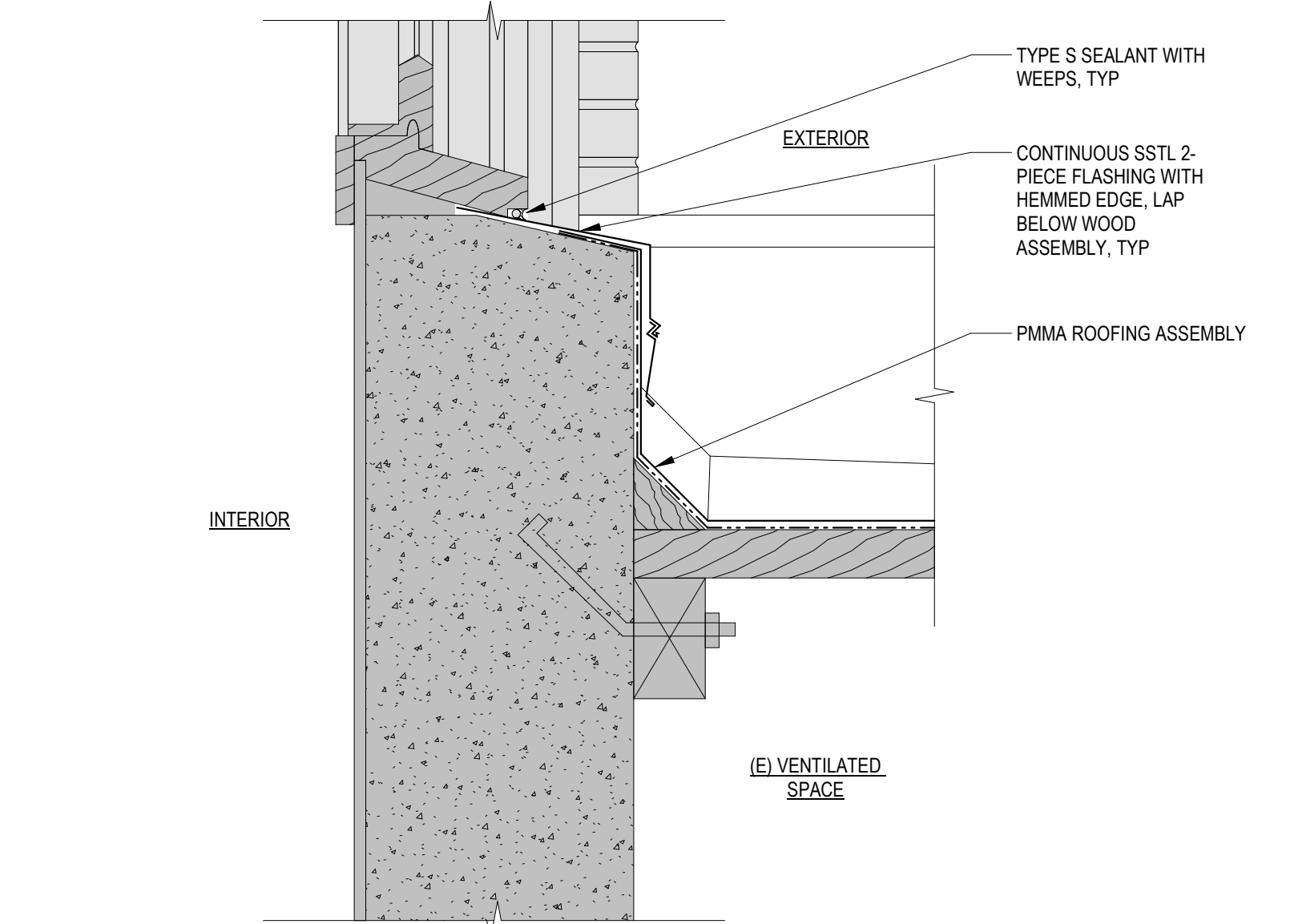
(E) KINDERGARTEN BAY ROOF EXISTING CONDITION



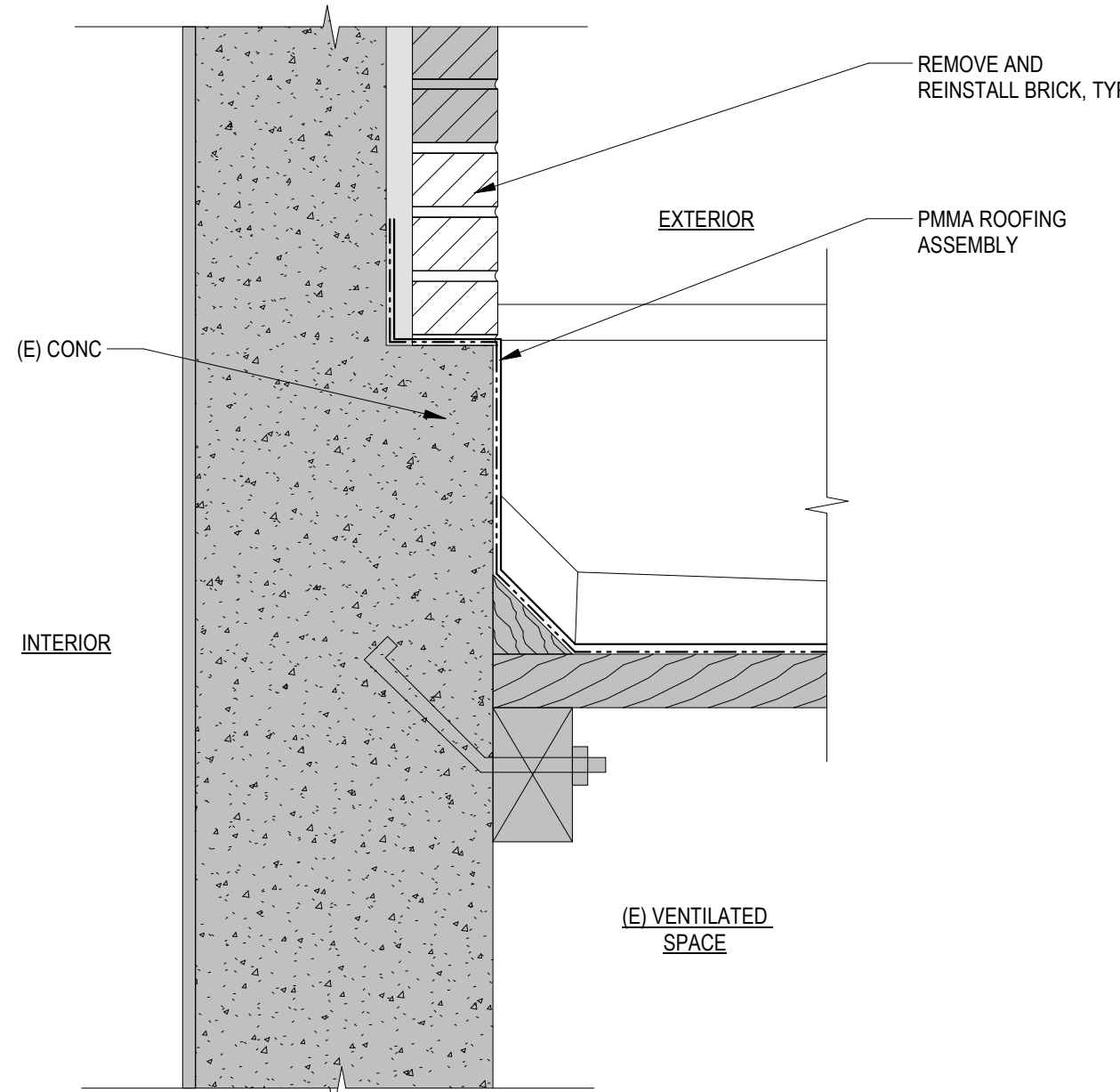
5 (E) Kindergarten Bay Roof - At Window
1 1/2" = 1'-0"



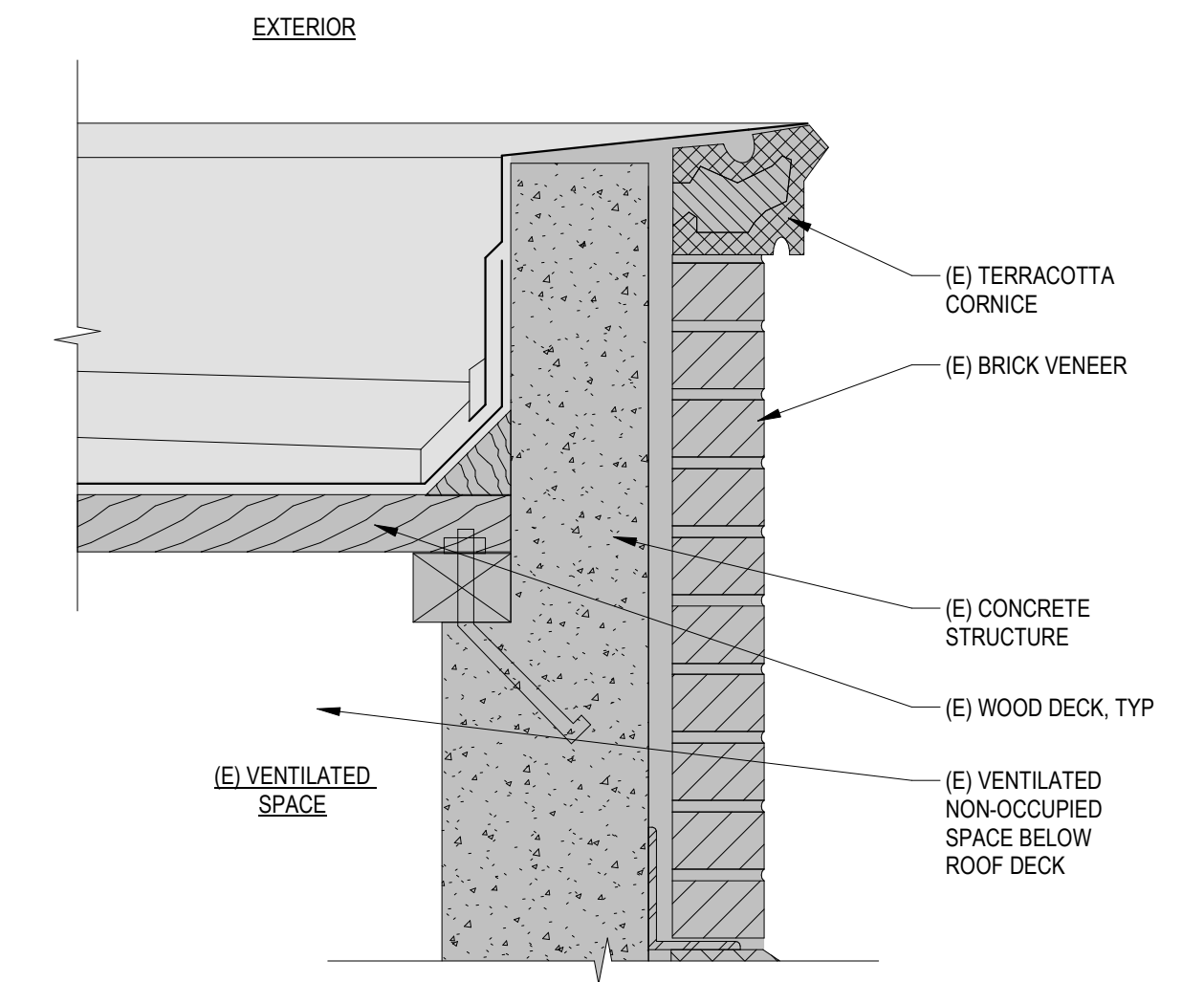
11 Selective Demo at Roof - At Window
1 1/2" = 1'-0"



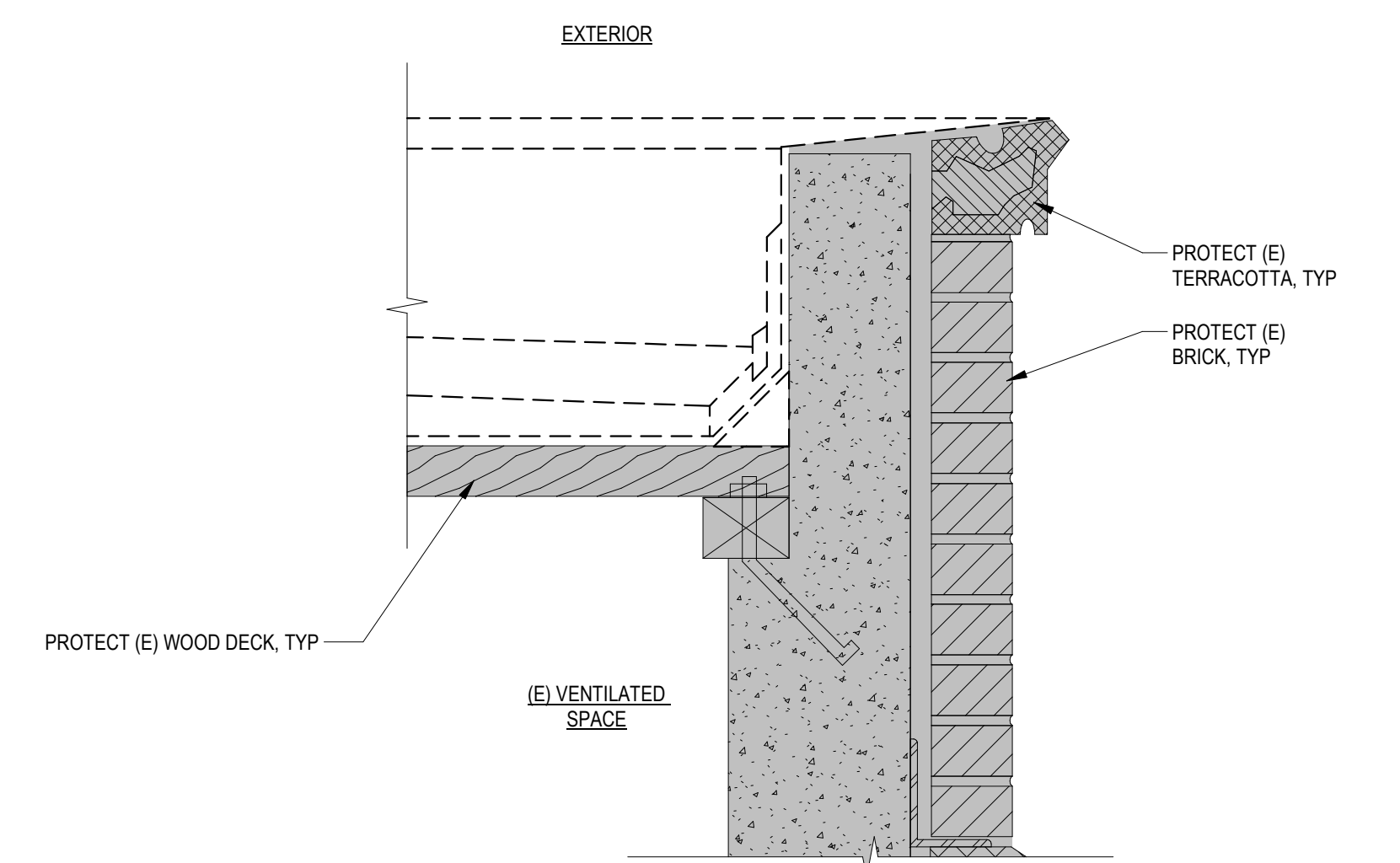
17 Proposed Roof - At Window
1 1/2" = 1'-0"



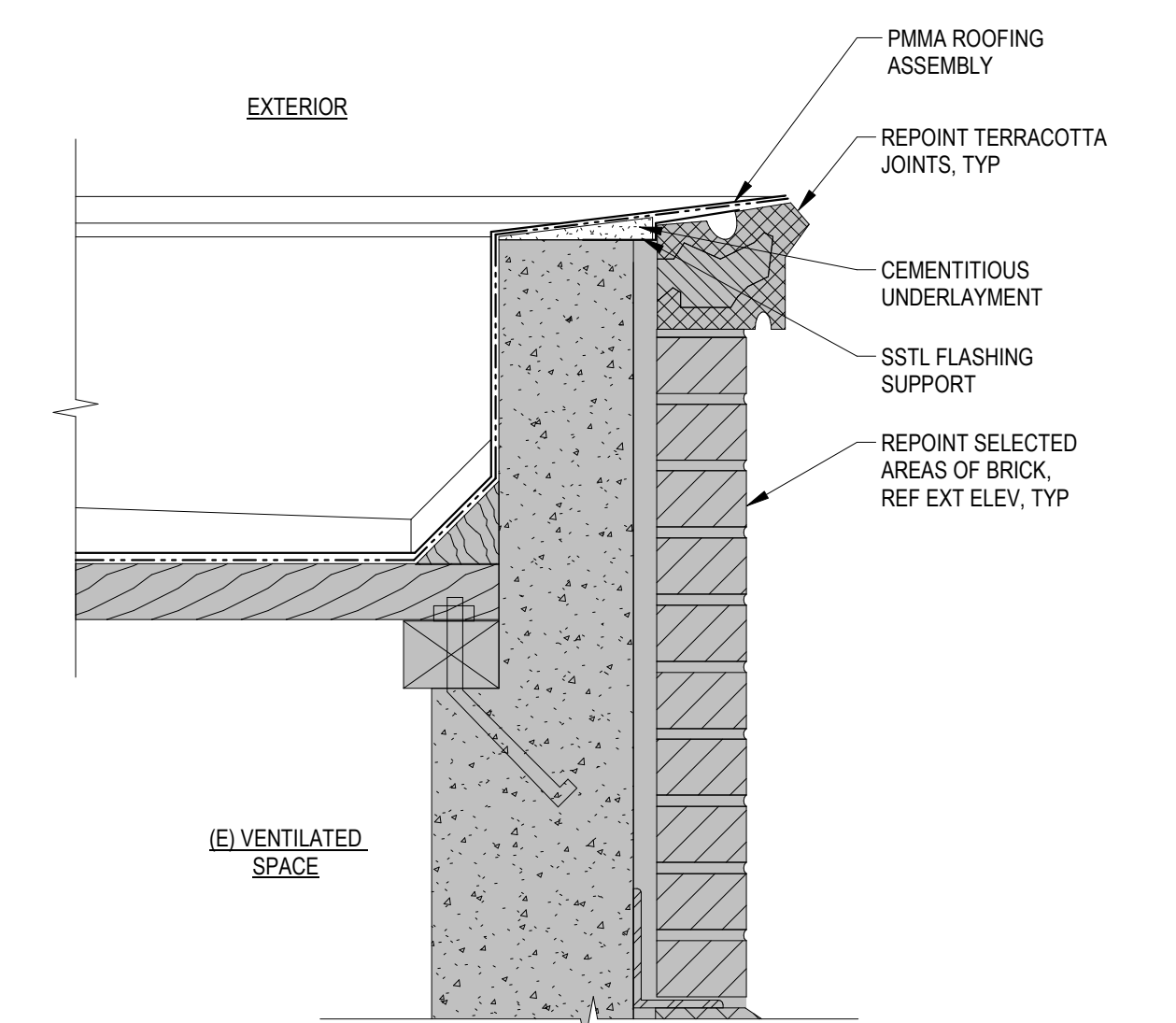
16 Proposed Roof - At Brick
1 1/2" = 1'-0"



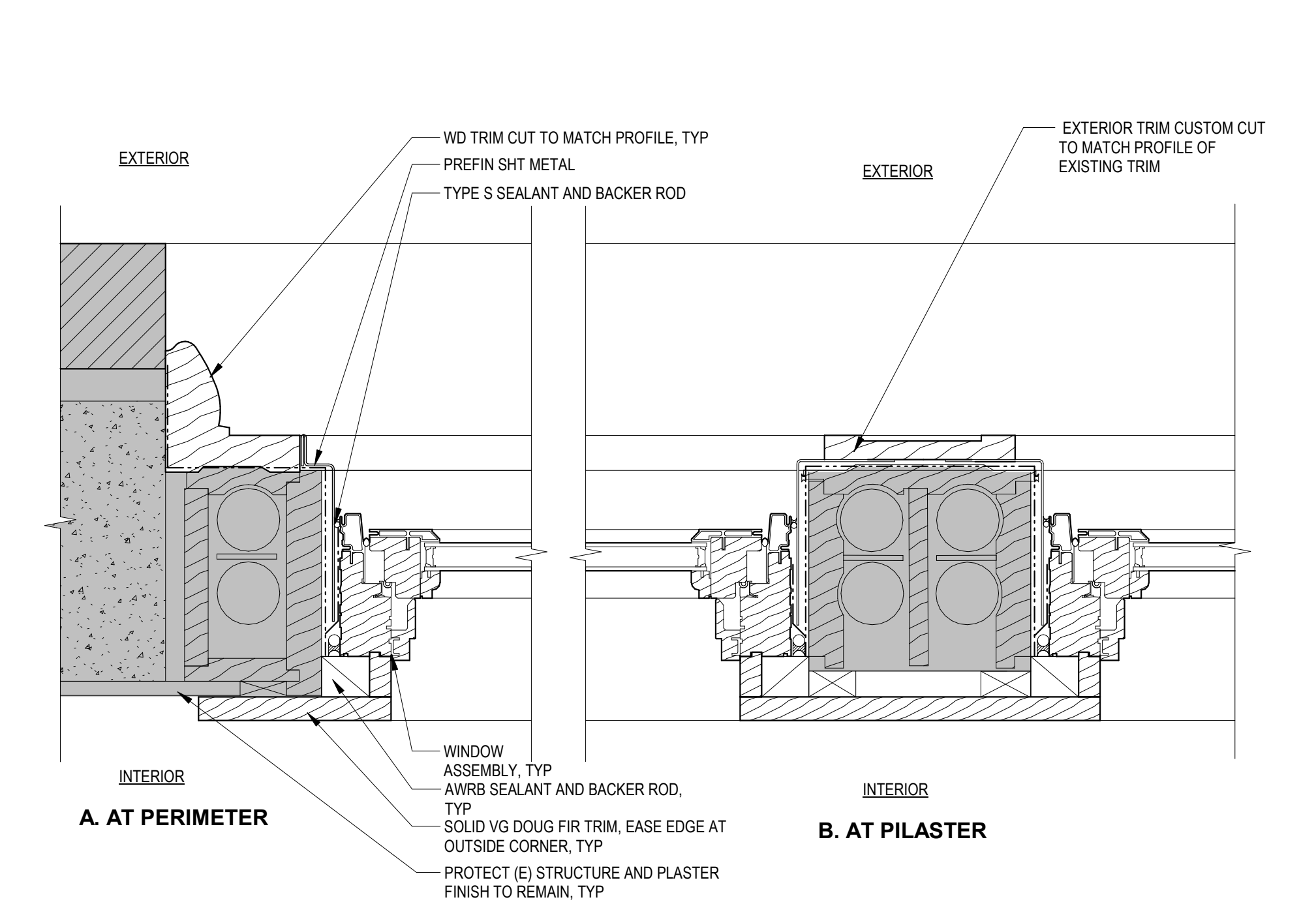
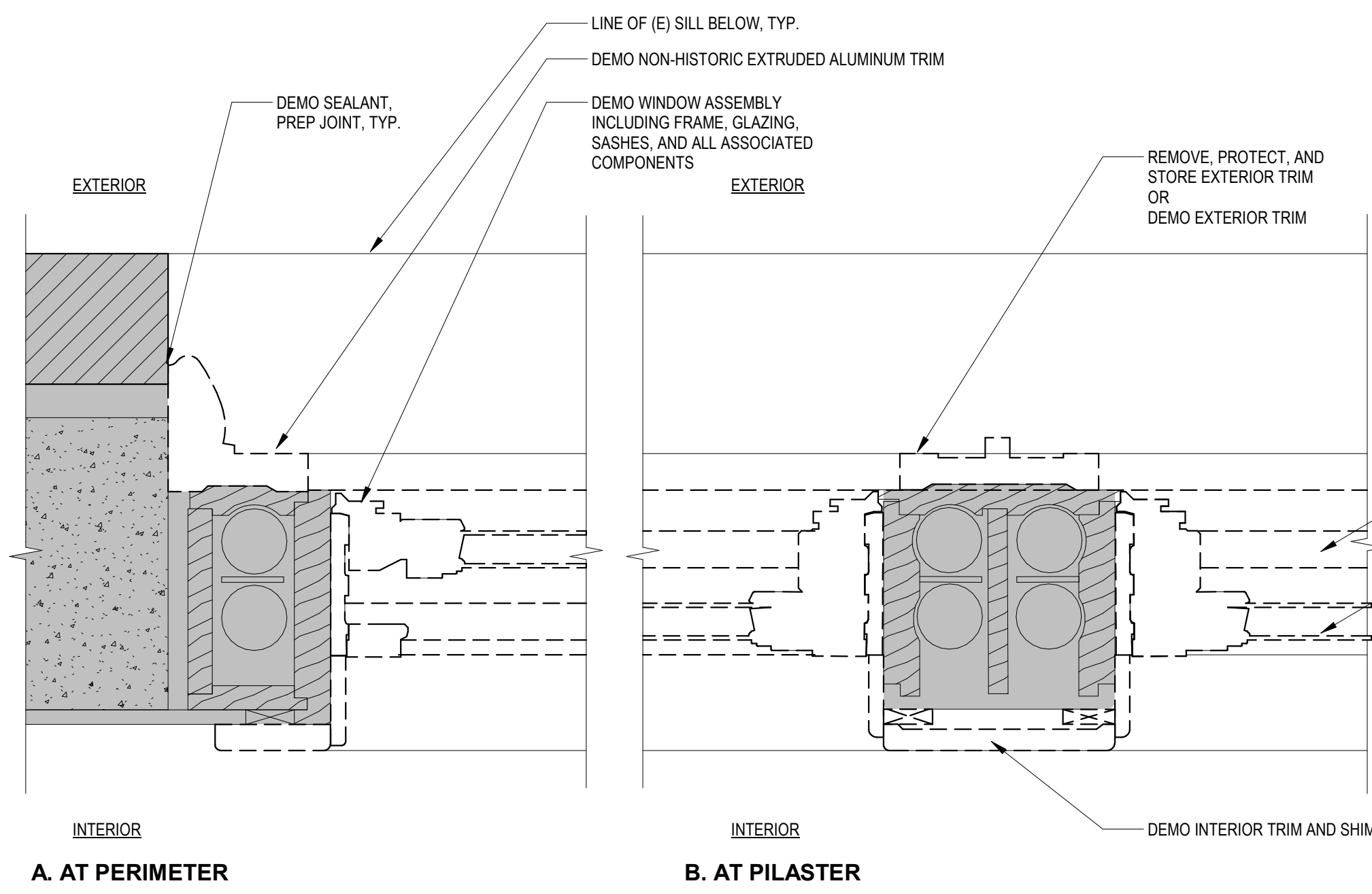
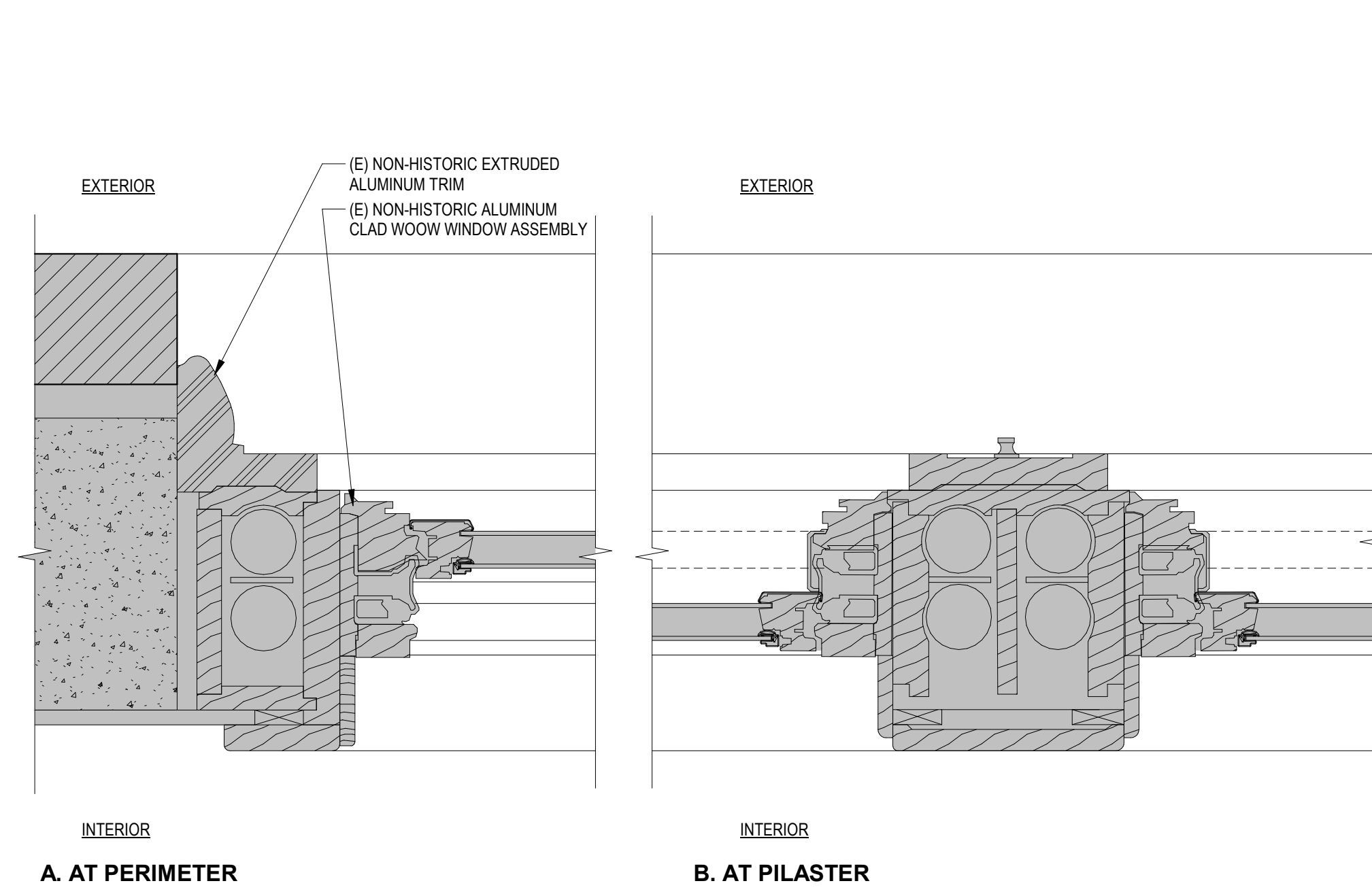
6 (E) Kindergarten Bay Roof - At Parapet
1 1/2" = 1'-0"



12 Selective Demo at Roof - At Parapet
1 1/2" = 1'-0"



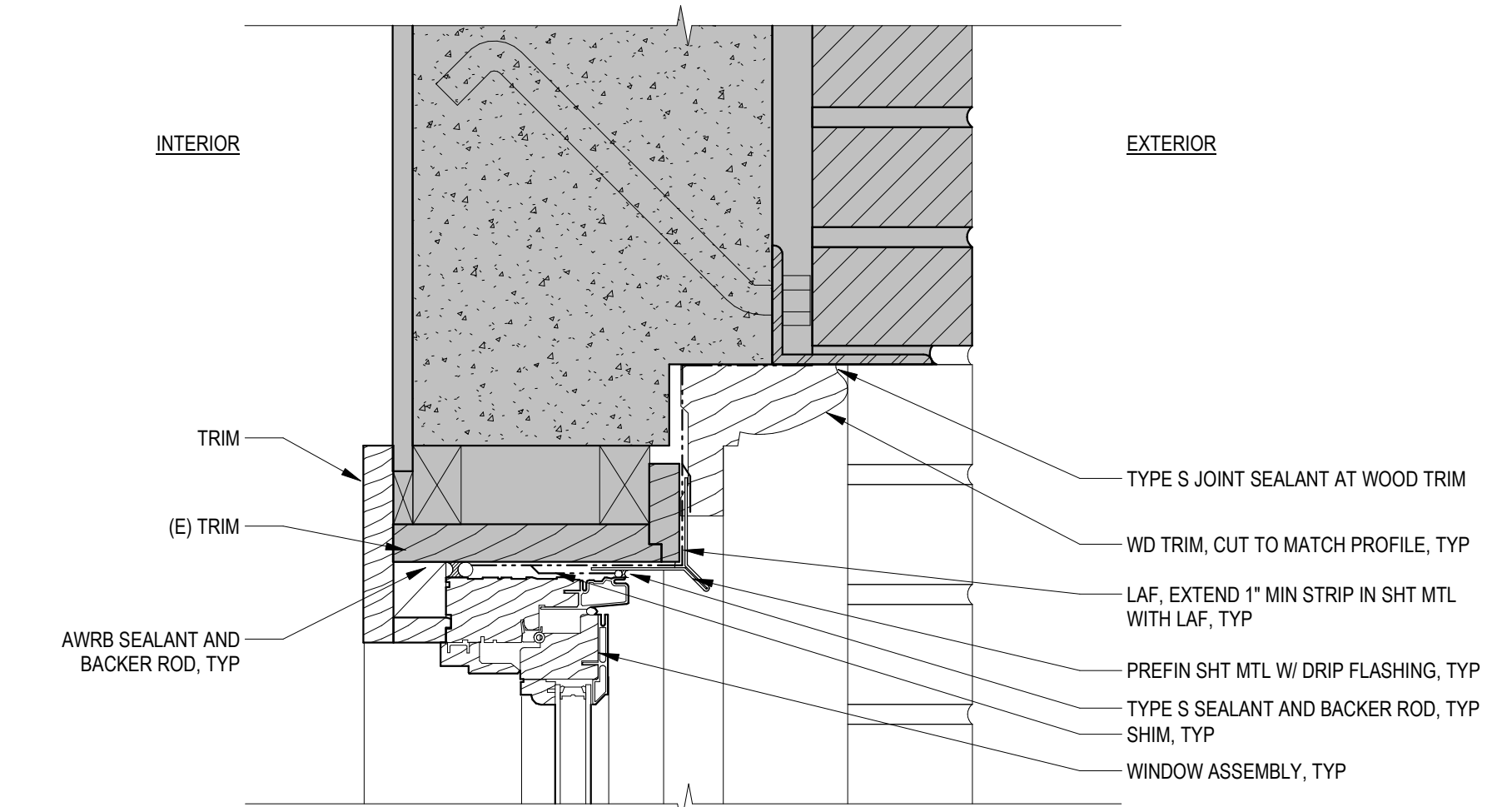
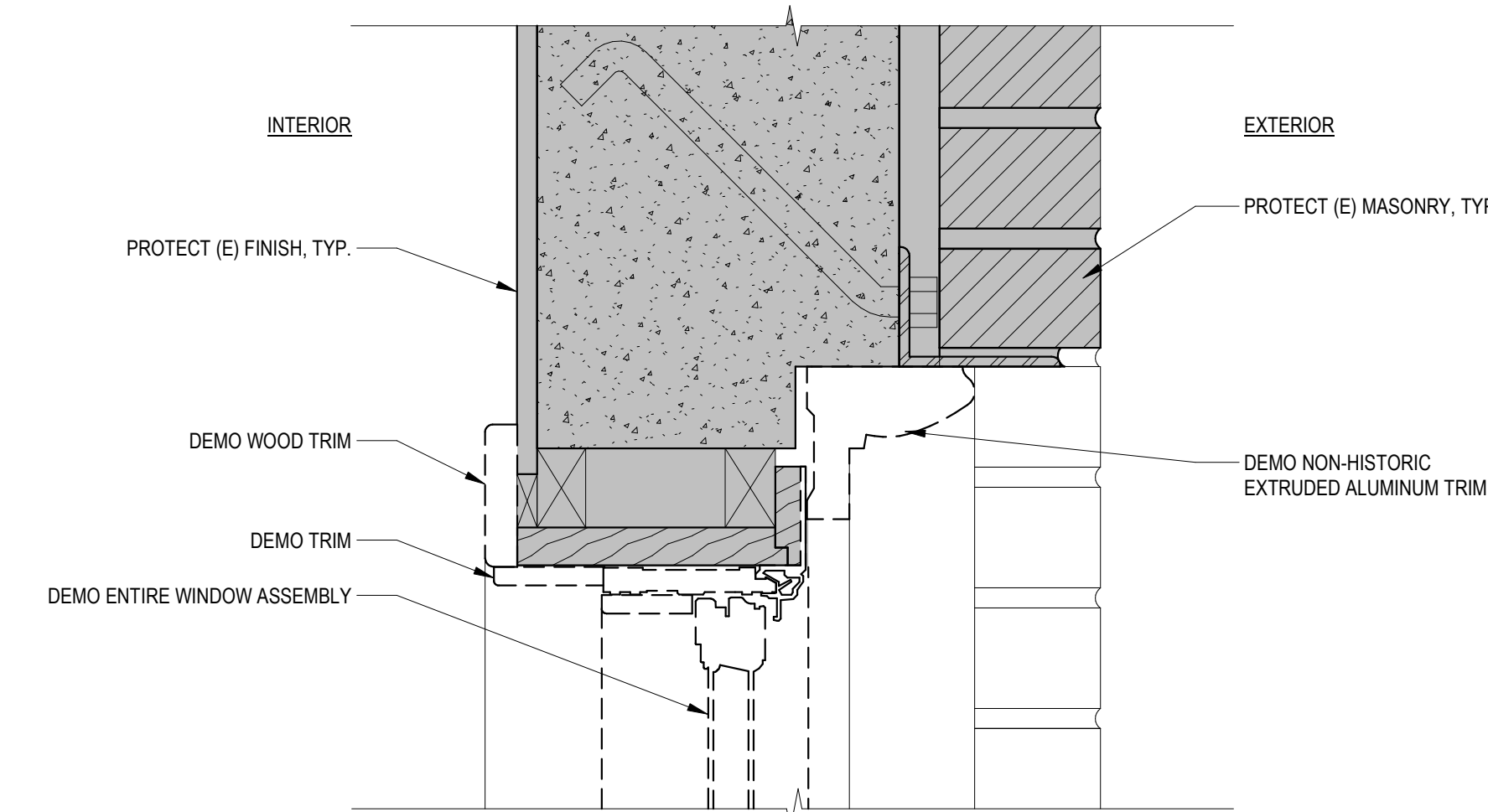
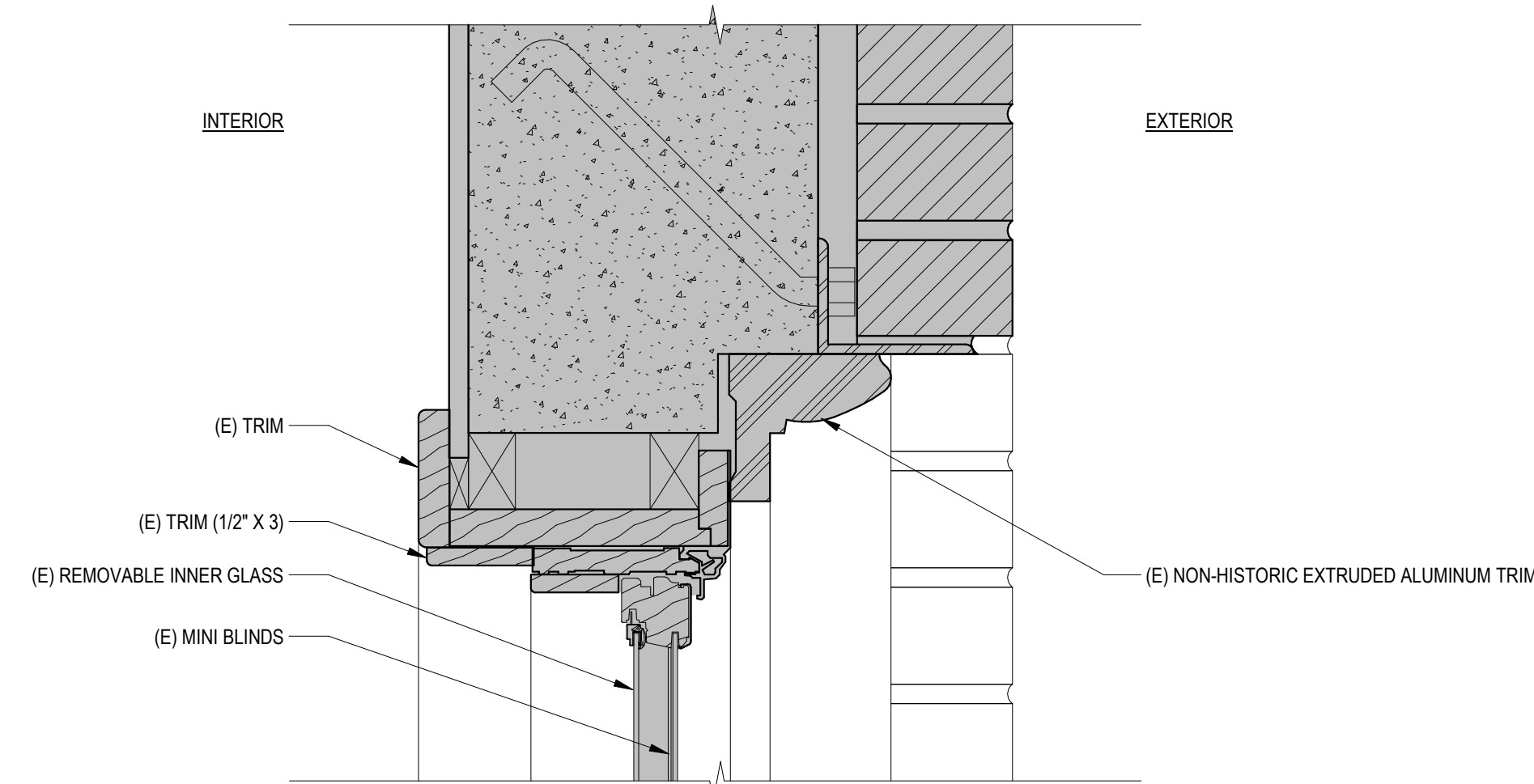
18 Proposed Roof - At Parapet
1 1/2" = 1'-0"



1 (E) Aluminum Clad Window at Historic R.O. - Jamb
3" = 1'-0"

2 Selective Demo at Aluminum Clad Window at Historic R.O. - Jamb
3" = 1'-0"

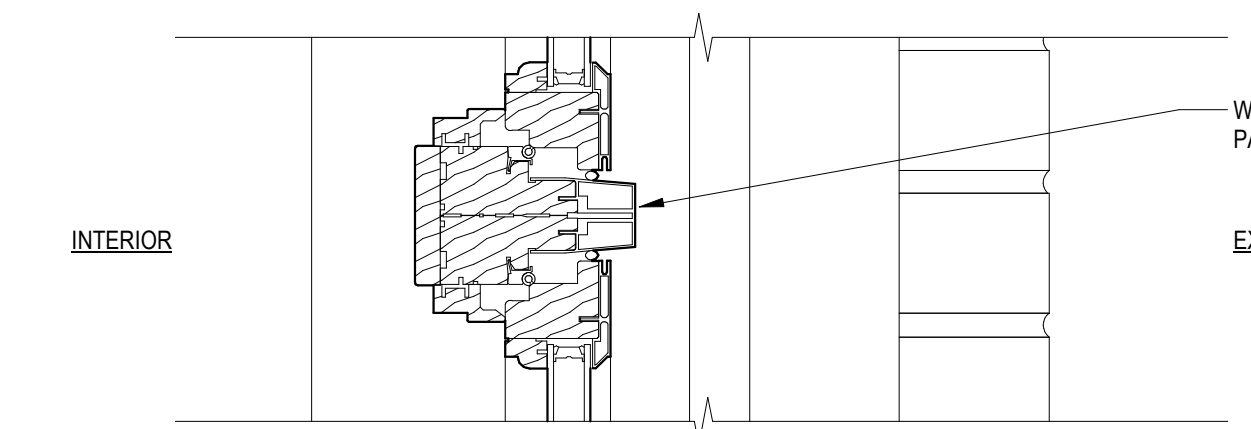
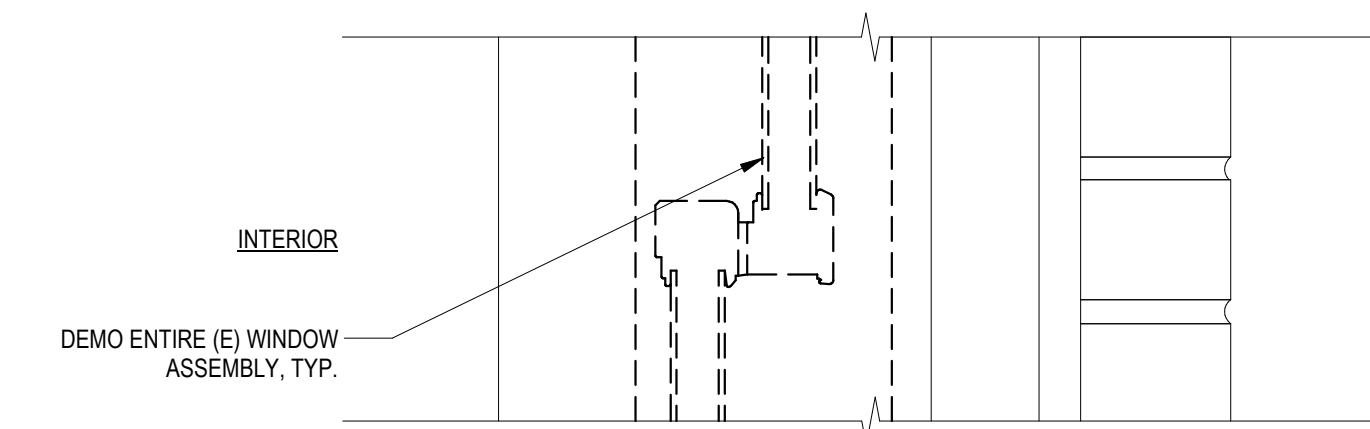
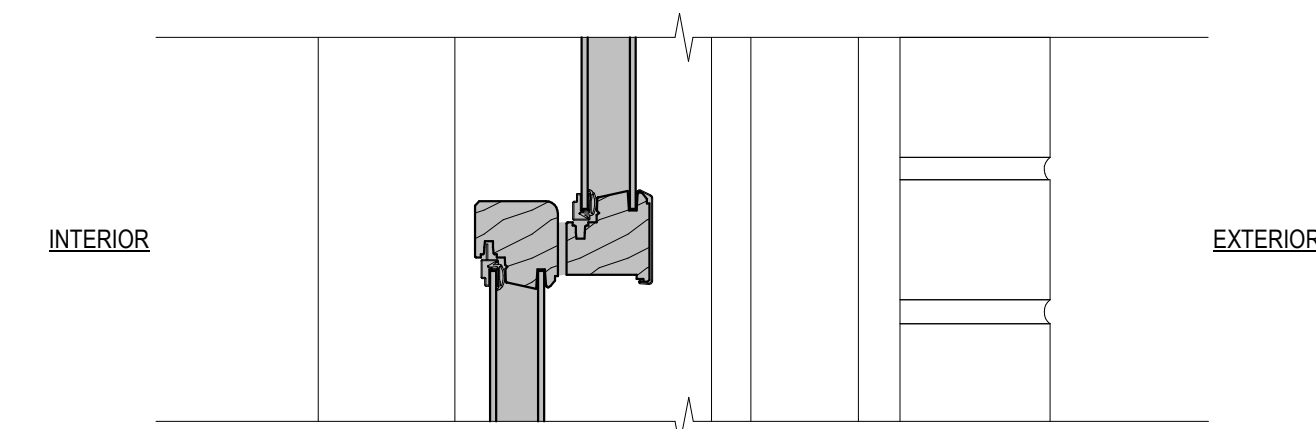
3 Proposed Aluminum Clad Awning Window Assembly at Historic R.O. - Jamb
3" = 1'-0"



4 (E) Aluminum Clad Window at Historic R.O. - Head
3" = 1'-0"

5 Selective Demo at Aluminum Clad Window at Historic R.O. - Head
3" = 1'-0"

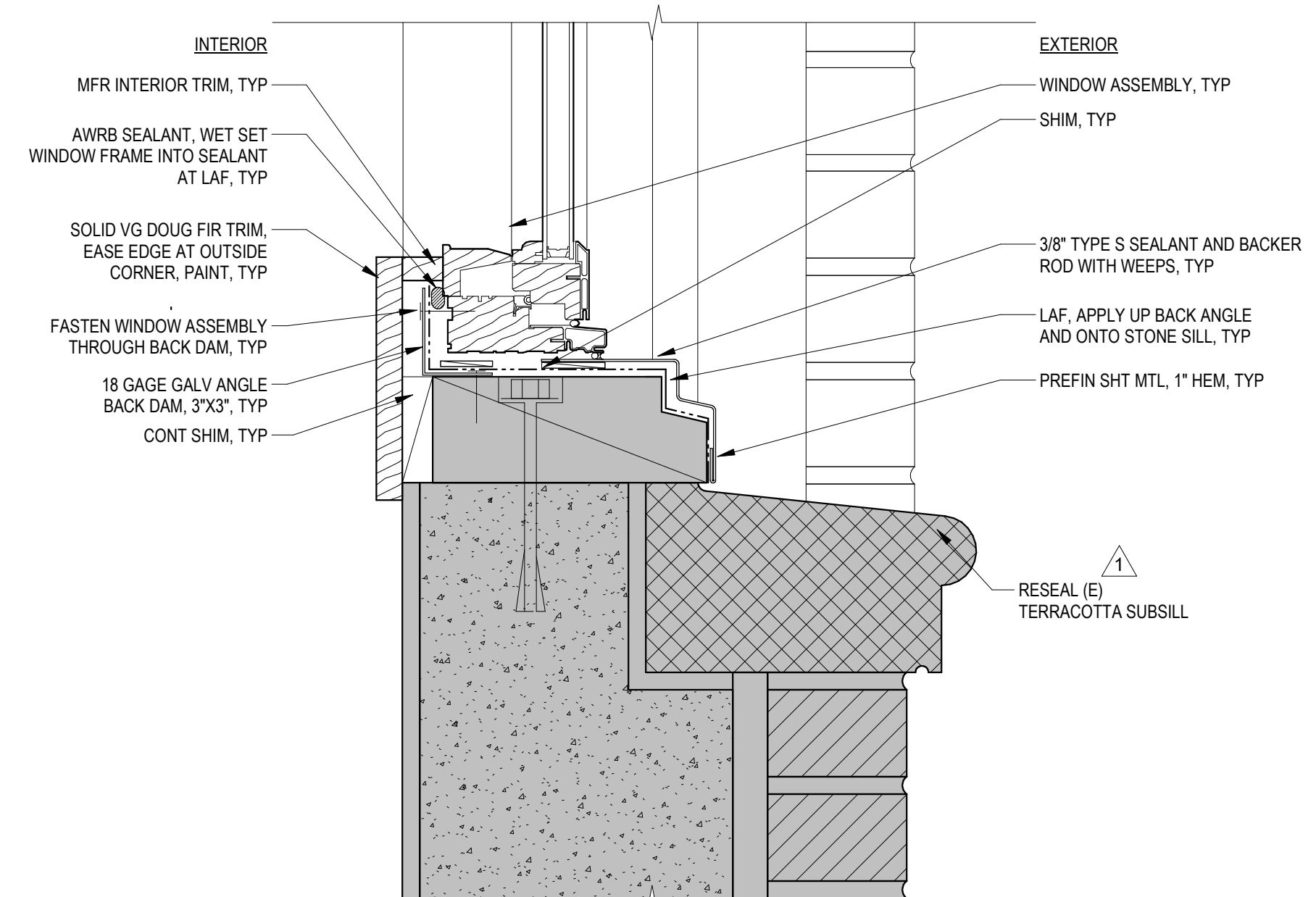
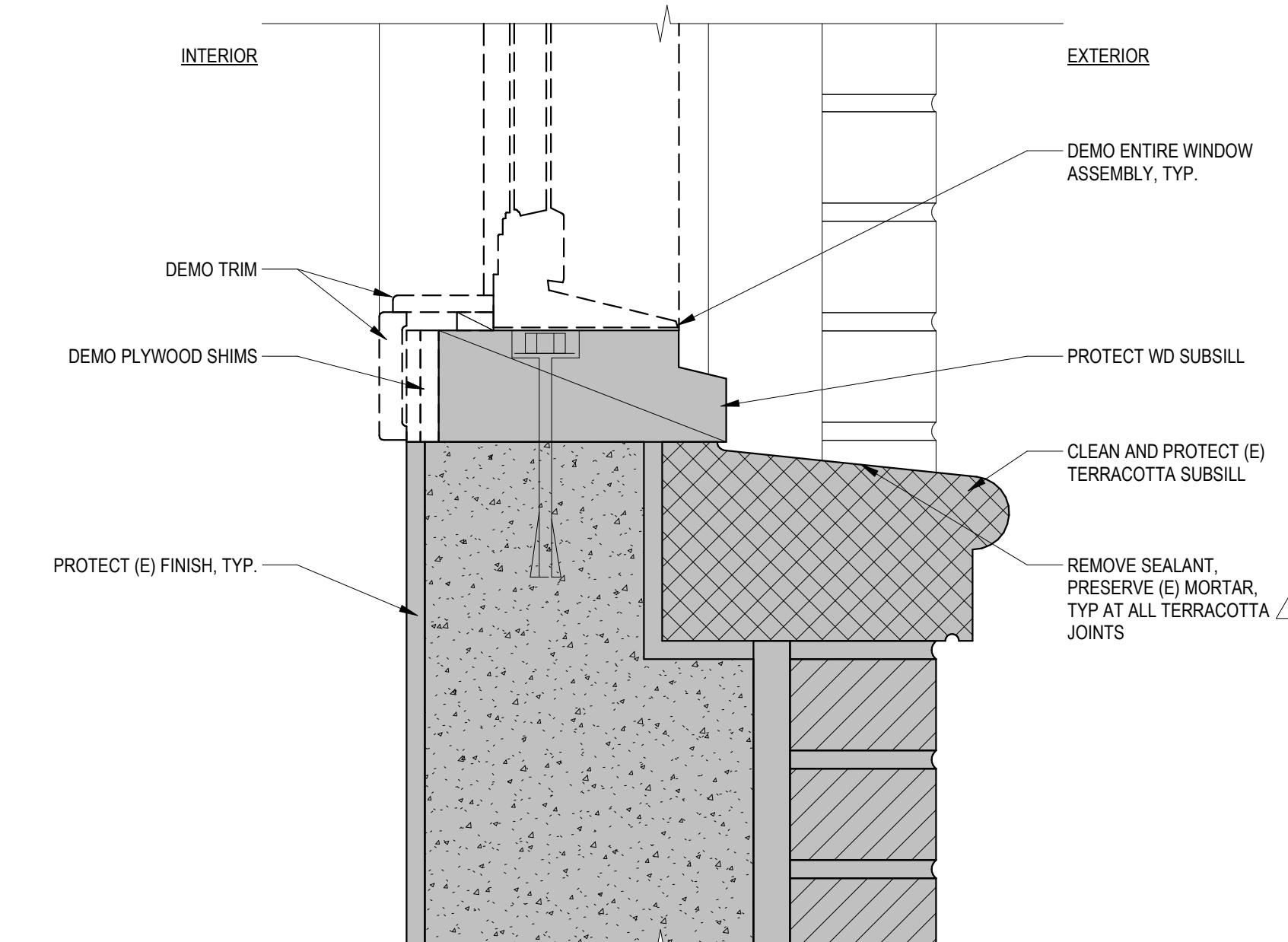
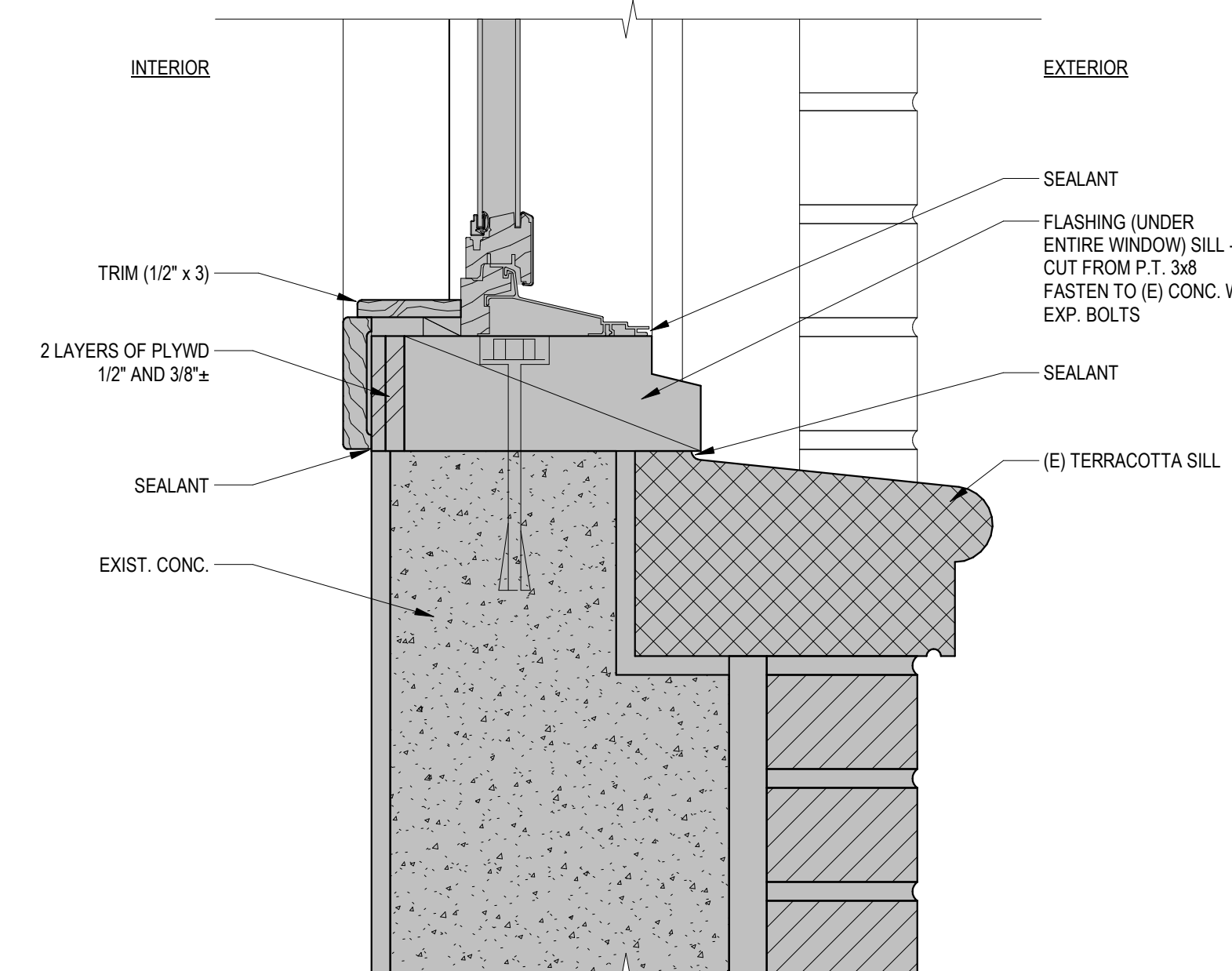
6 Proposed Aluminum Clad Awning Window Assembly at Historic R.O. - Head
3" = 1'-0"



7 (E) Aluminum Clad Window at Historic R.O. - Meeting Rail
3" = 1'-0"

8 Selective Demo at Aluminum Clad Window at Historic R.O. - Meeting Rail
3" = 1'-0"

9 Proposed Aluminum Clad Awning Window Assembly at Historic R.O. - Parting Rail
3" = 1'-0"



10 (E) Aluminum Clad Window at Historic R.O. - Sill
3" = 1'-0"

11 Selective Demo at Aluminum Clad Window at Historic R.O. - Sill
3" = 1'-0"

12 Proposed Aluminum Clad Awning Window Assembly at Historic R.O. - Sill
3" = 1'-0"

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SHEET TITLE

WINDOW DETAILS - 2000 ADDITION

SHEET NO.

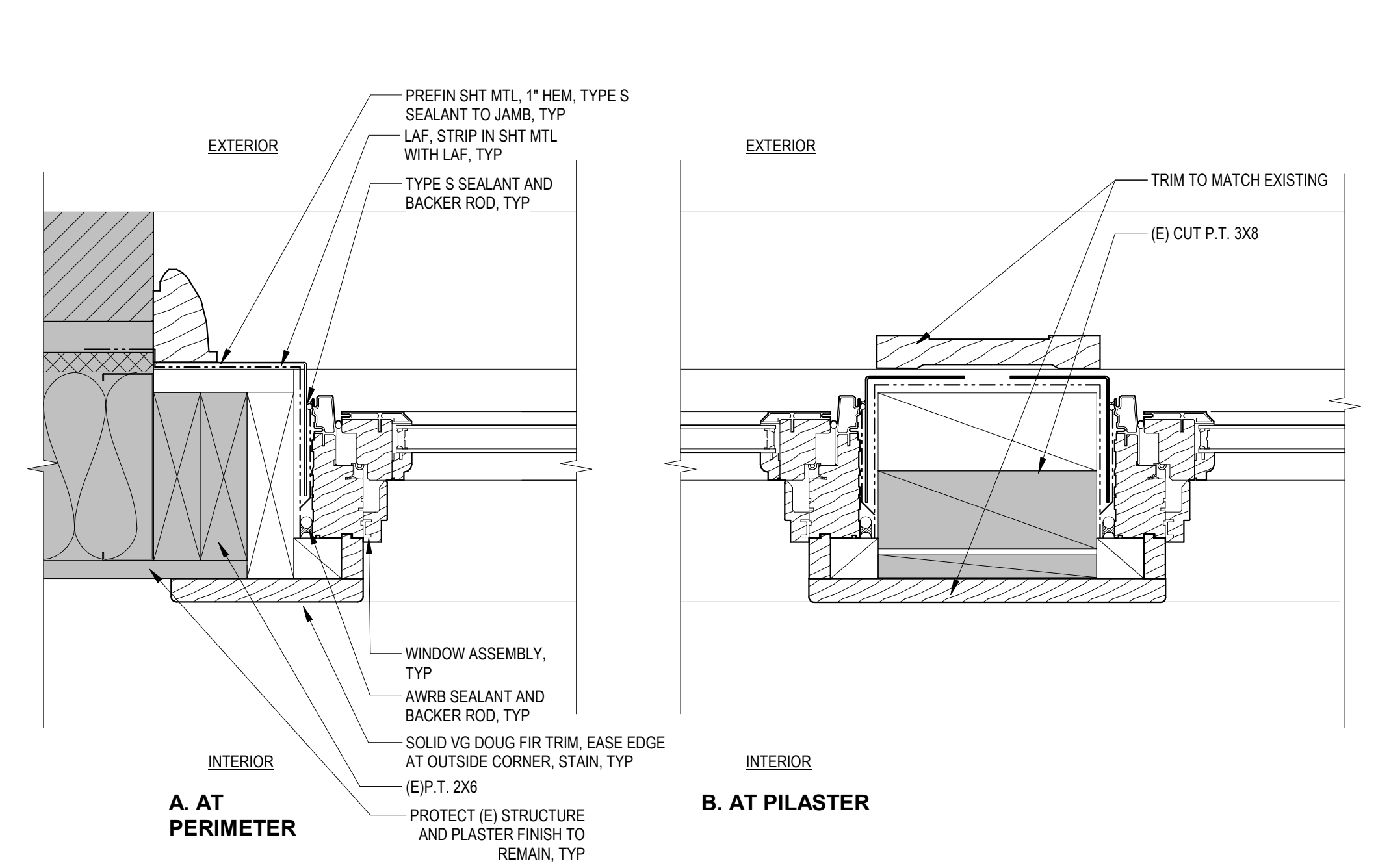
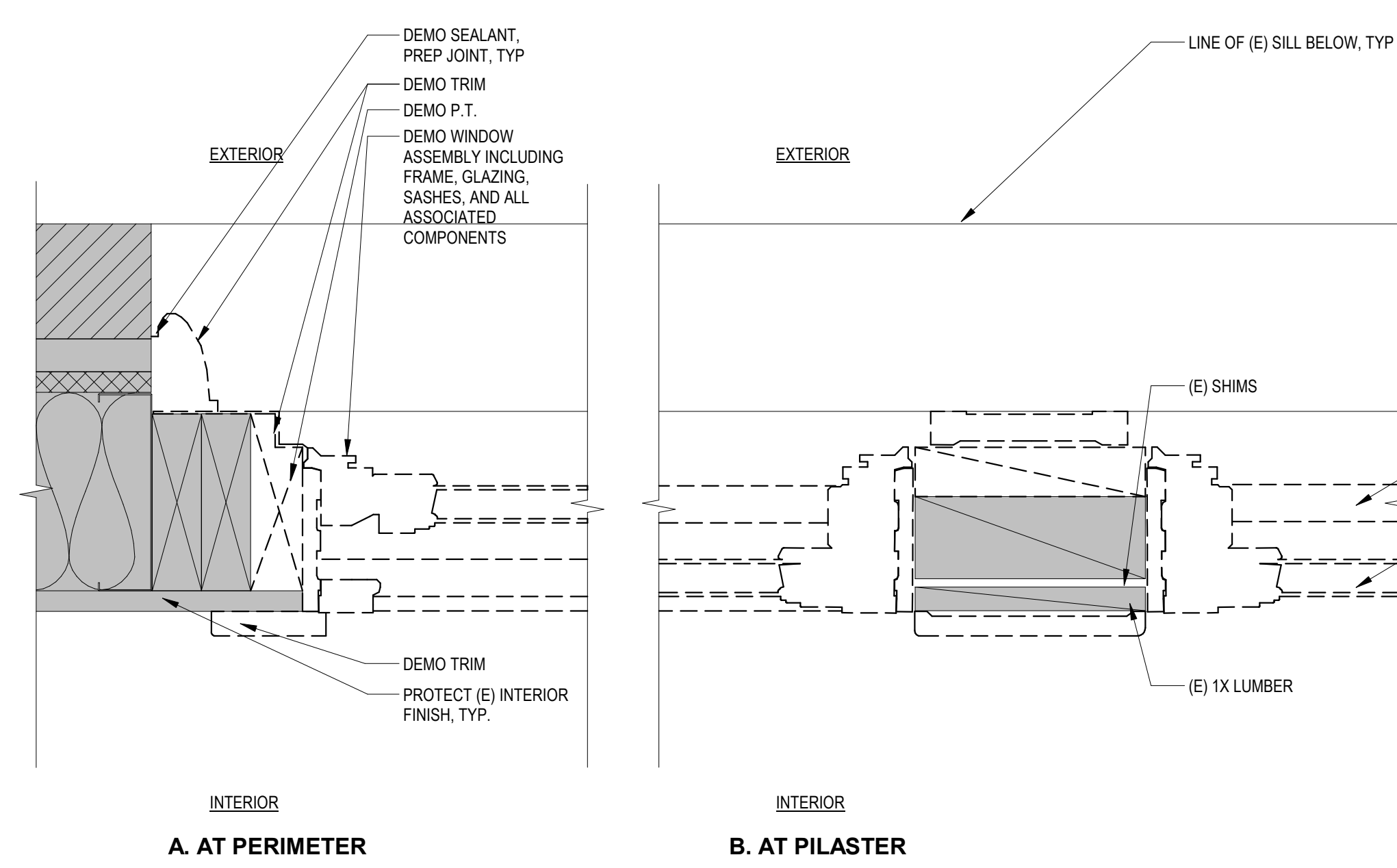
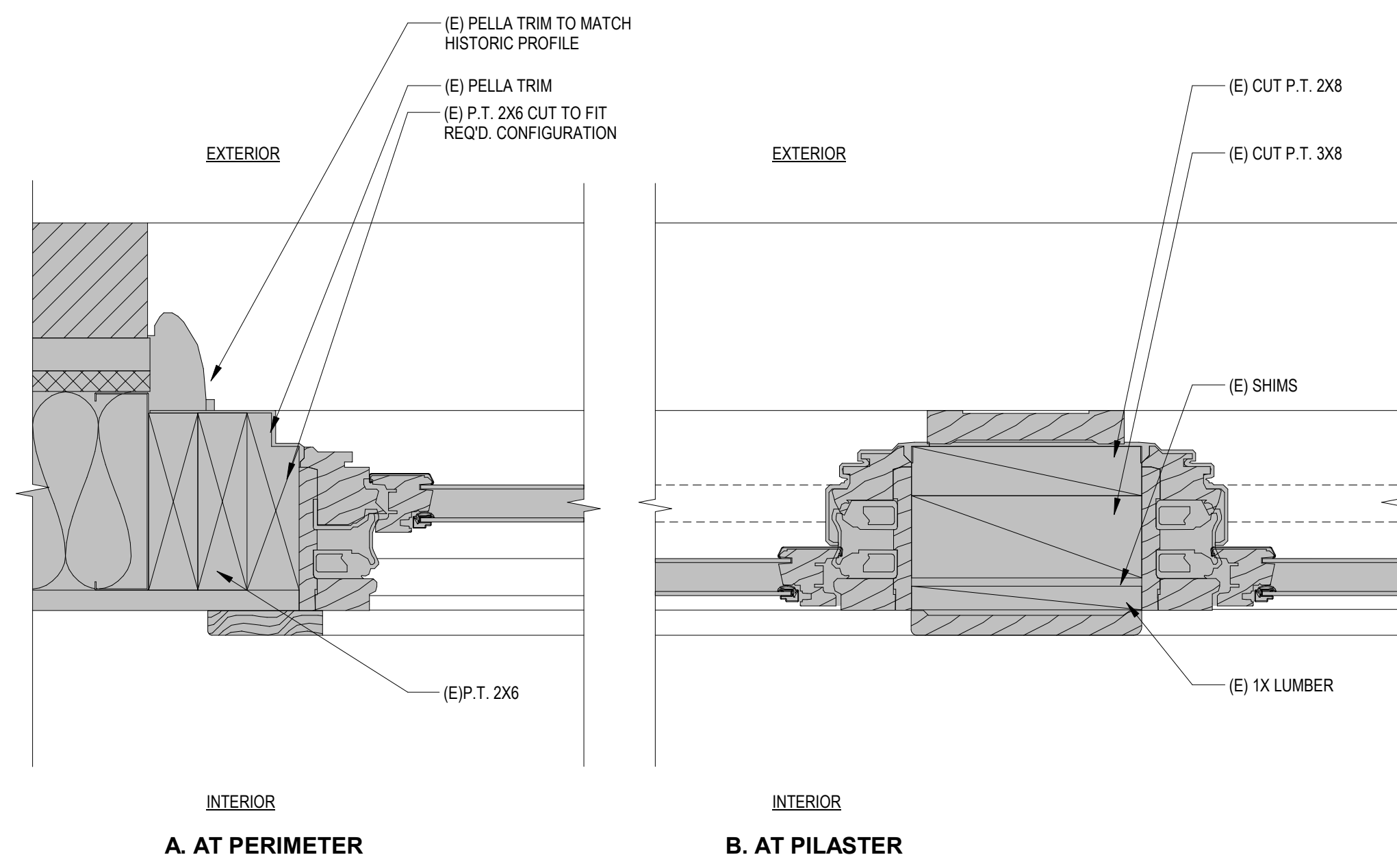
A6.13

MILLER HAYASHI ARCHITECTS 2513

UNDER SEPARATE C OF A

UNDER SEPARATE C OF A

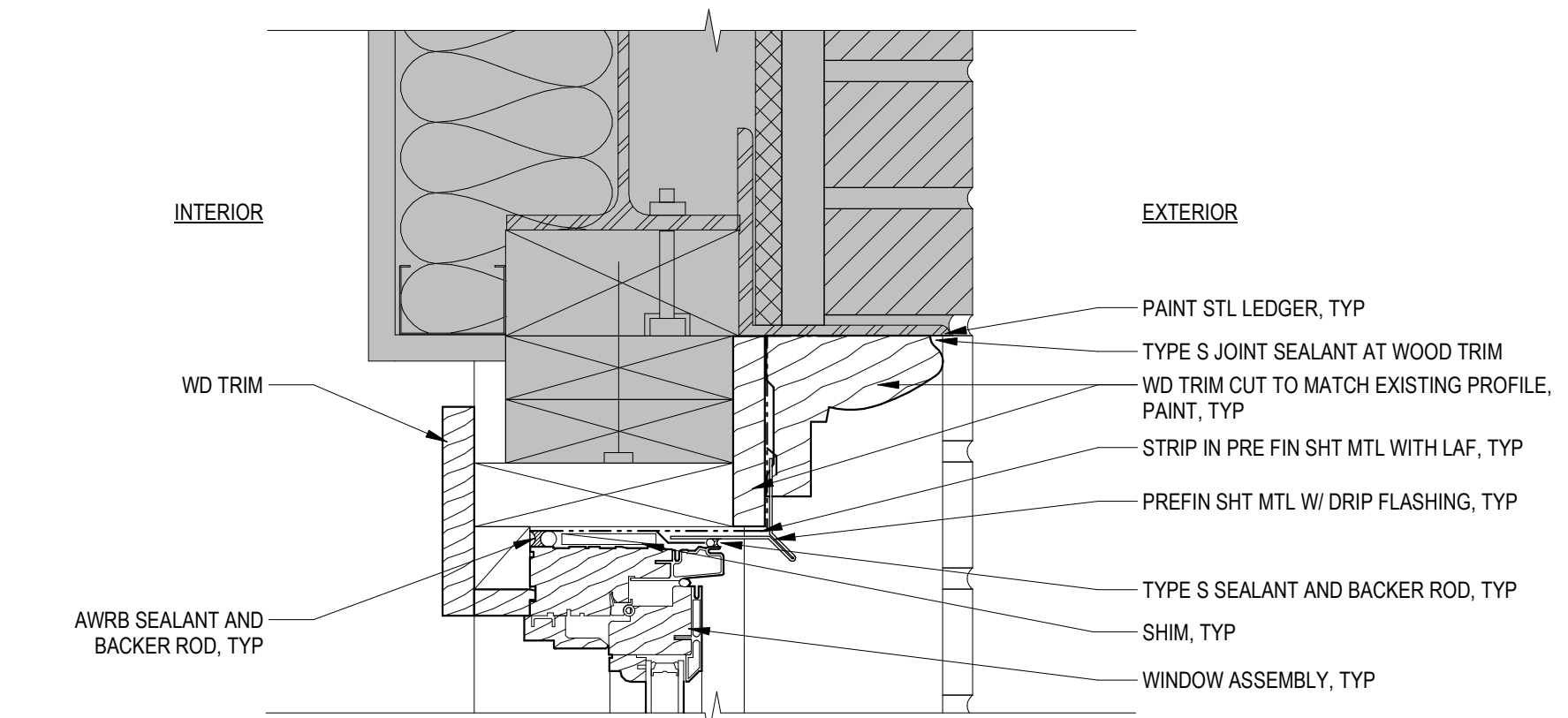
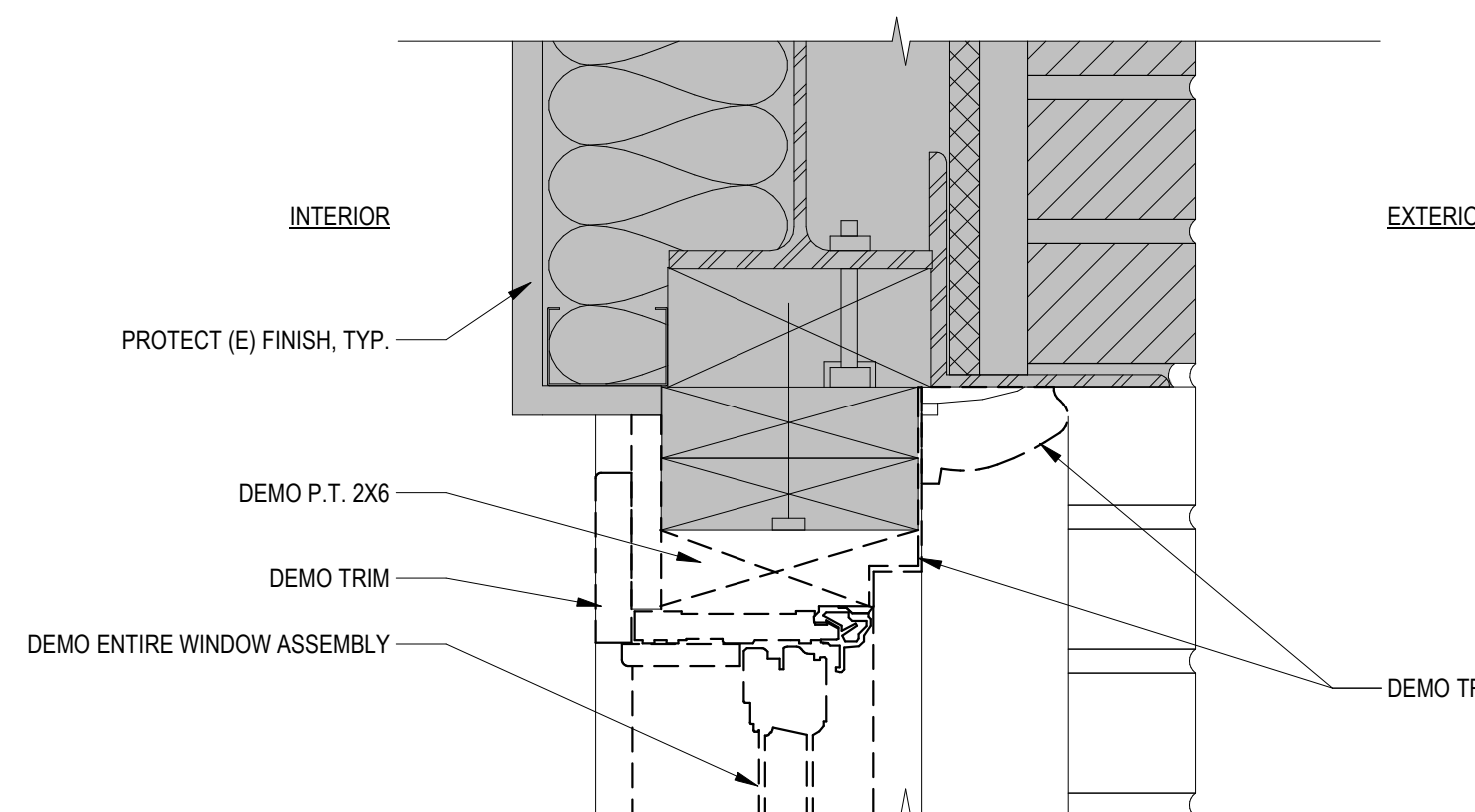
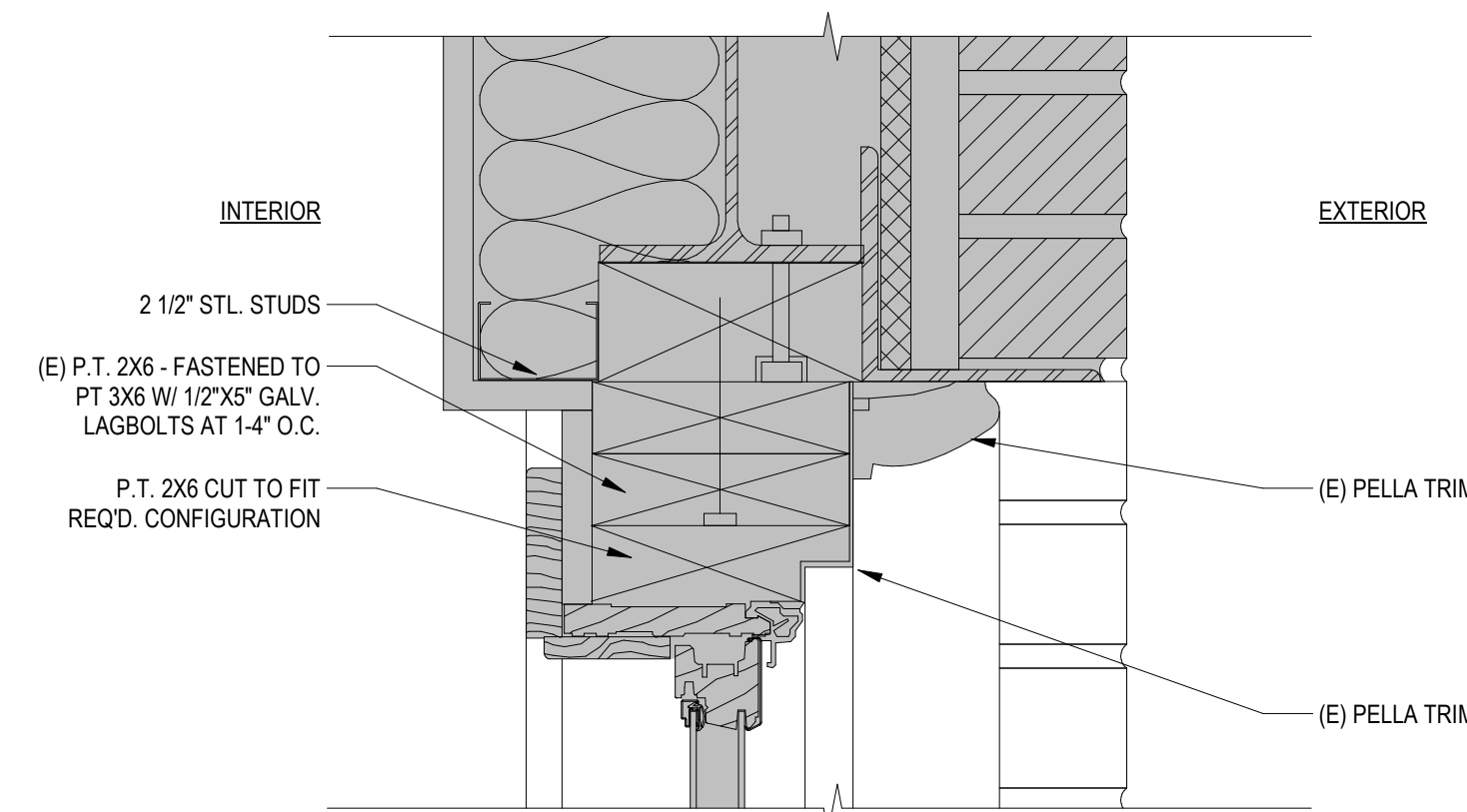
UNDER SEPARATE C OF A



1 (E) Aluminum Clad Window at Non Historic R.O. - Jamb
3" = 1'-0"

2 Selective Demo at Aluminum Clad Window at Non Historic R.O. - Jamb
3" = 1'-0"

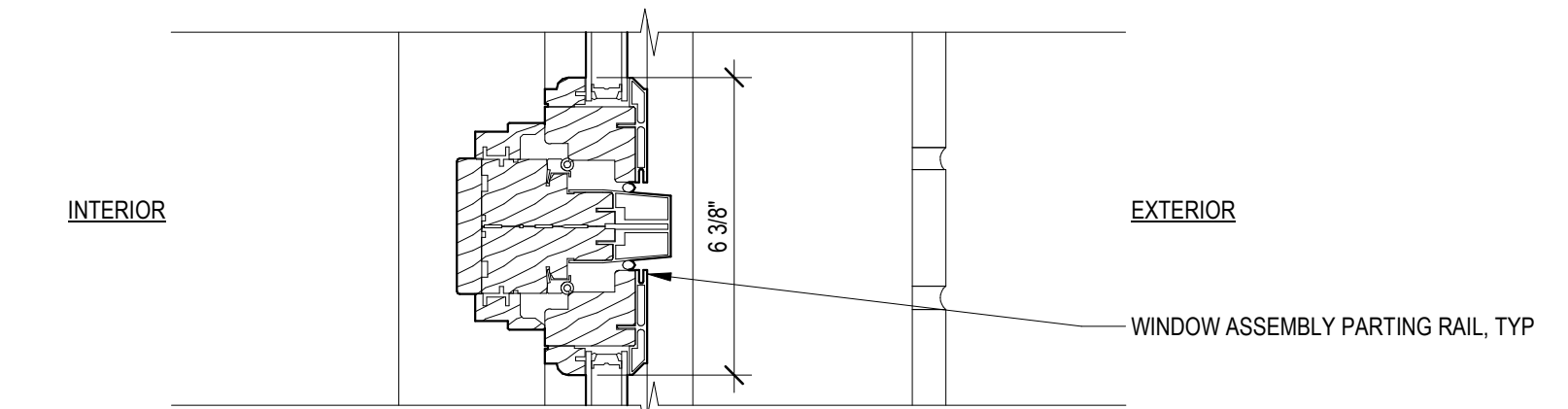
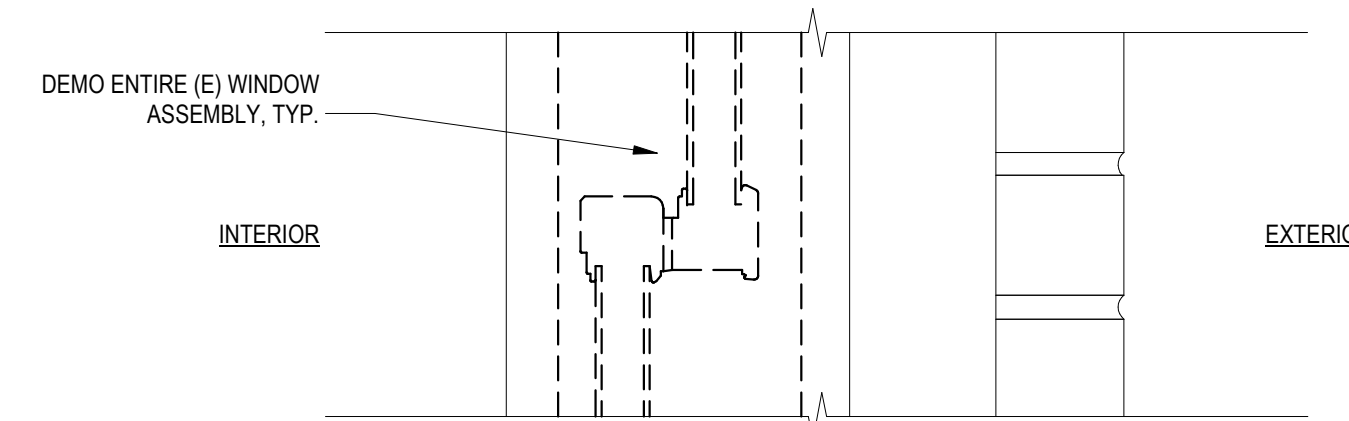
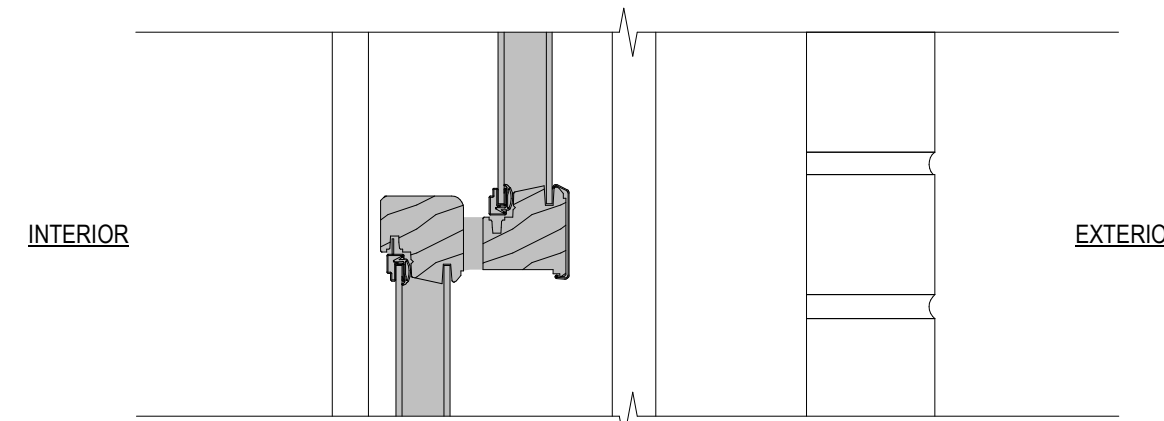
3 Proposed Aluminum Clad Awning Window Assembly at Non Historic R.O. - Jamb
3" = 1'-0"



4 (E) Aluminum Clad Window at Non Historic R.O. - Head
3" = 1'-0"

5 Selective Demo at Aluminum Clad Window at Non Historic R.O. - Head
3" = 1'-0"

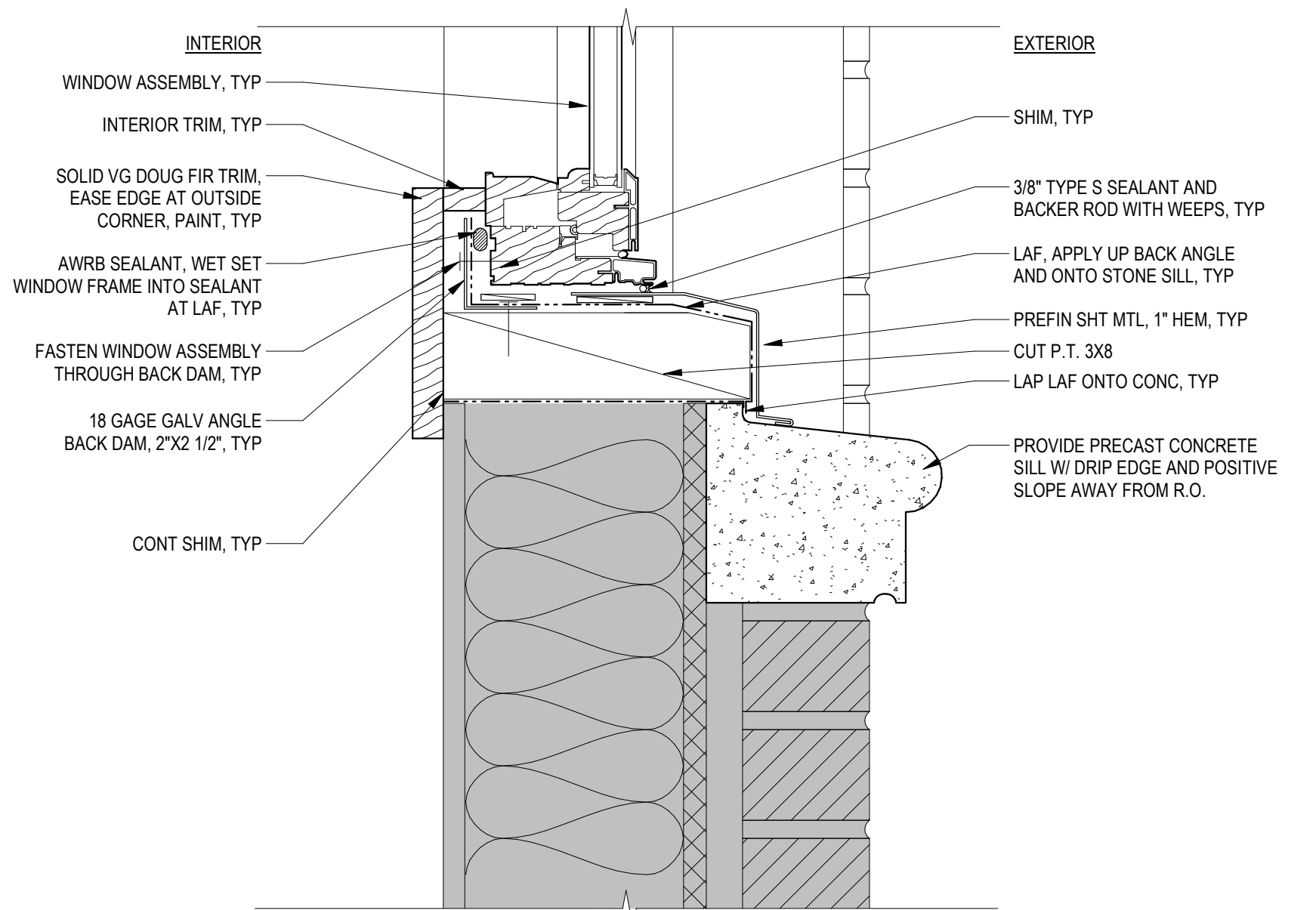
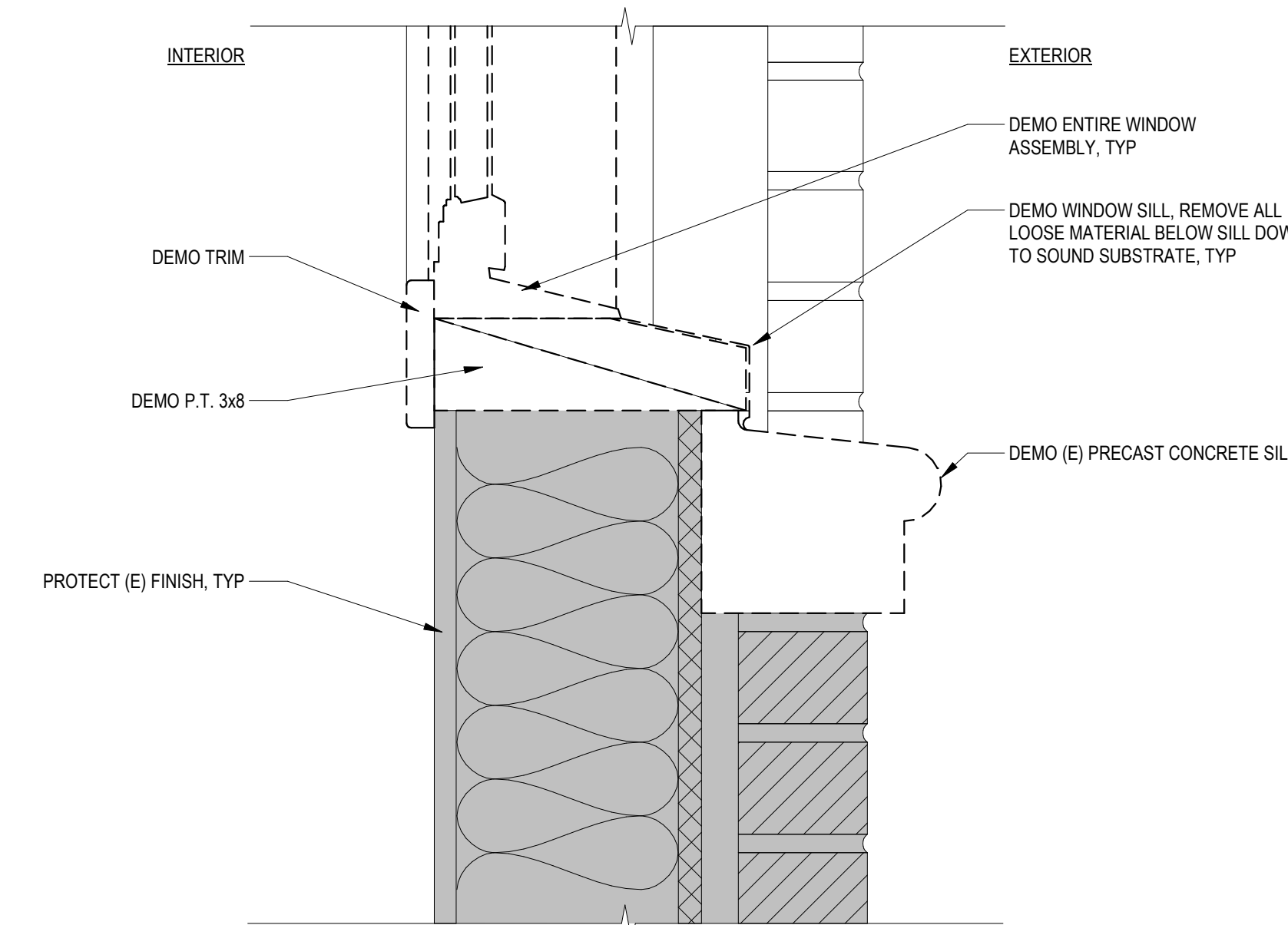
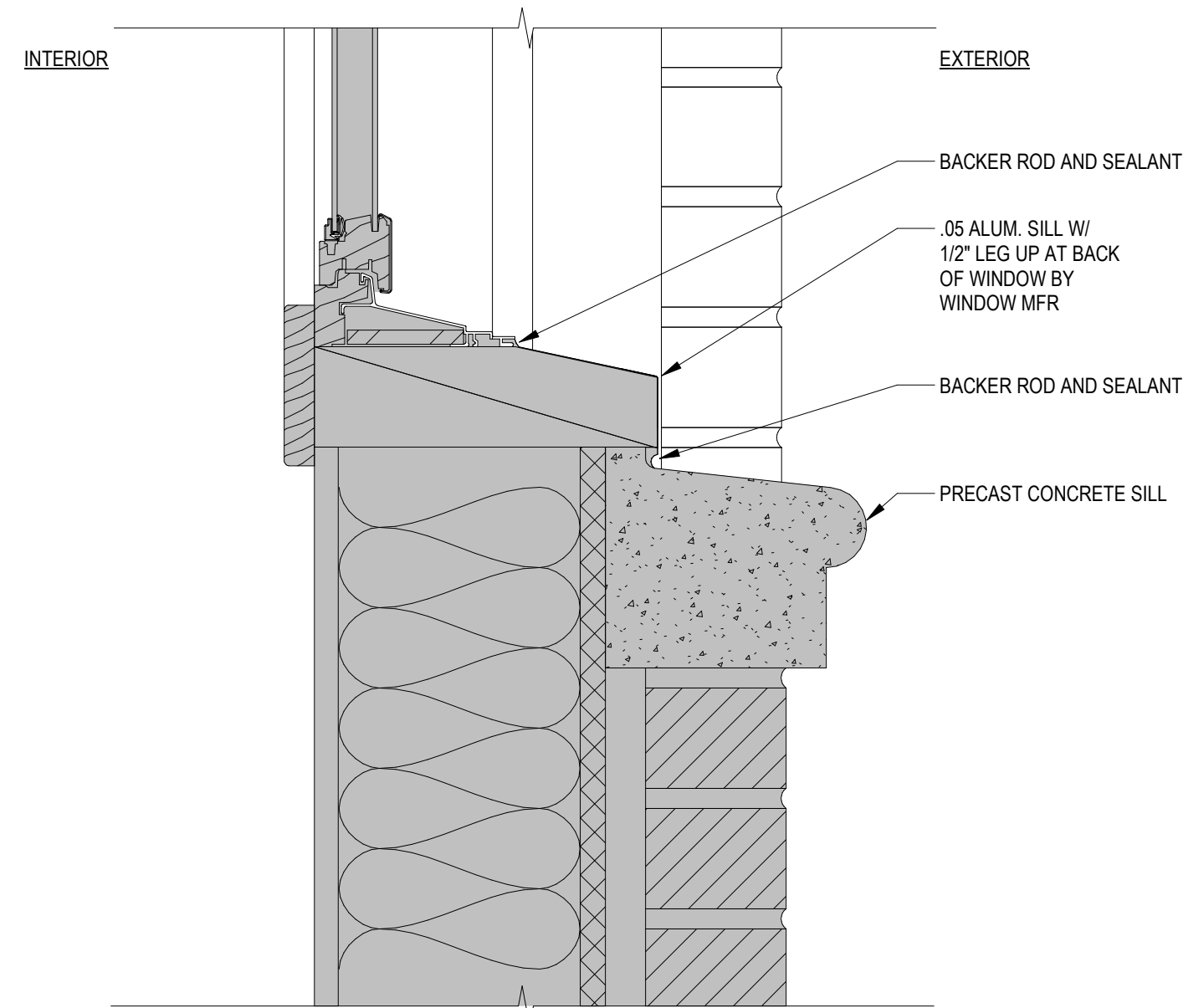
6 Proposed Aluminum Clad Awning Window Assembly at Non Historic R.O. - Head
3" = 1'-0"



7 (E) Aluminum Clad Window at Non Historic R.O. - Meeting Rail
3" = 1'-0"

8 Selective Demo at Aluminum Clad Window at Non Historic R.O. - Meeting Rail
3" = 1'-0"

9 Proposed Aluminum Clad Awning Window Assembly at Non Historic R.O. - Parting Rail
3" = 1'-0"



UNDER SEPARATE C OF A

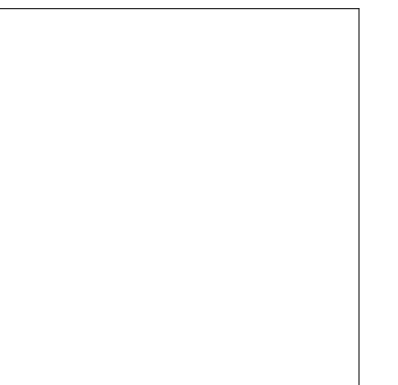
UNDER SEPARATE C OF A

UNDER SEPARATE C OF A

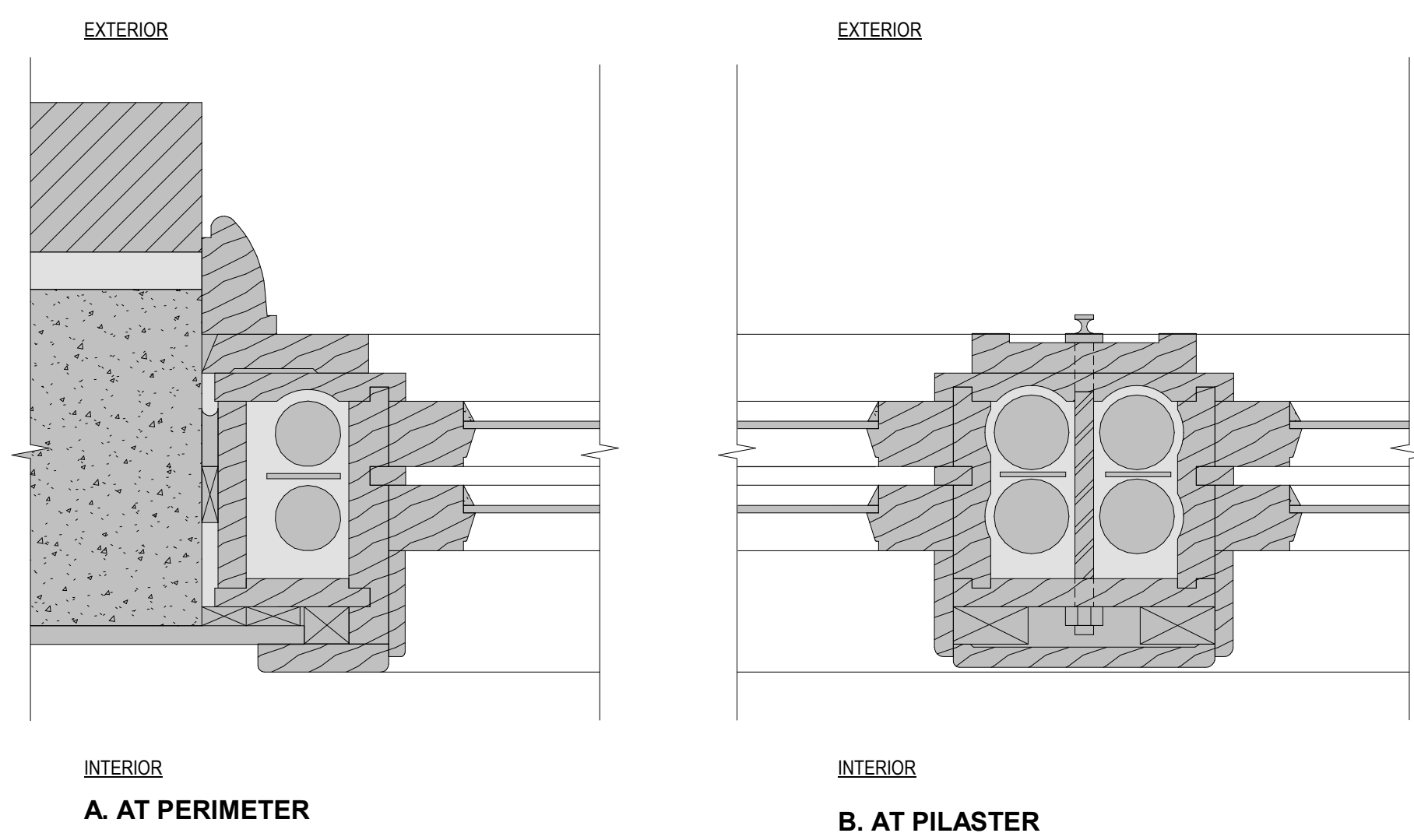
10 (E) Aluminum Clad Window at Non Historic R.O. - Sill
3" = 1'-0"

11 Selective Demo at Aluminum Clad Window at Non Historic R.O. - Sill
3" = 1'-0"

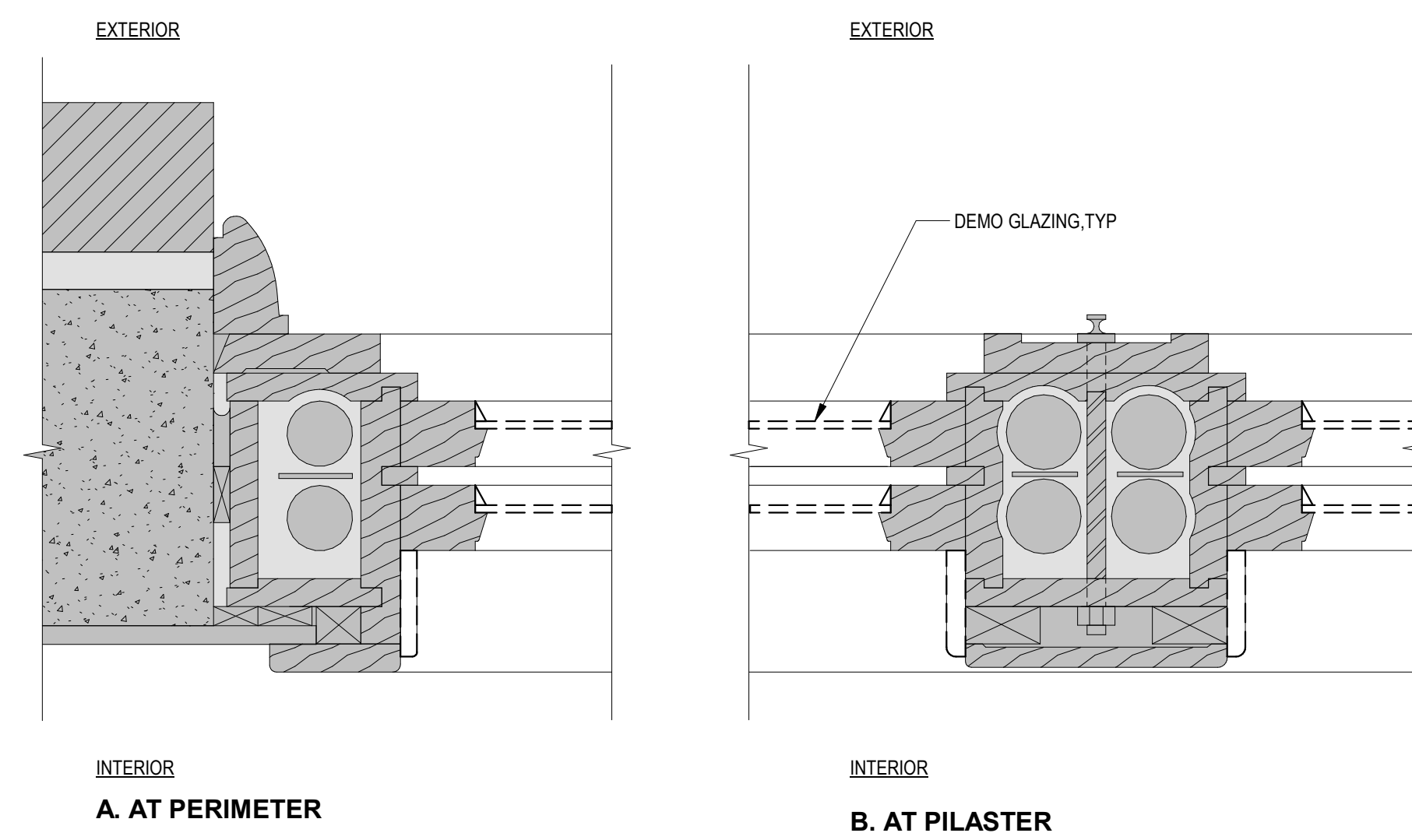
12 Proposed Aluminum Clad Awning Window Assembly at Non Historic R.O. - Sill
3" = 1'-0"



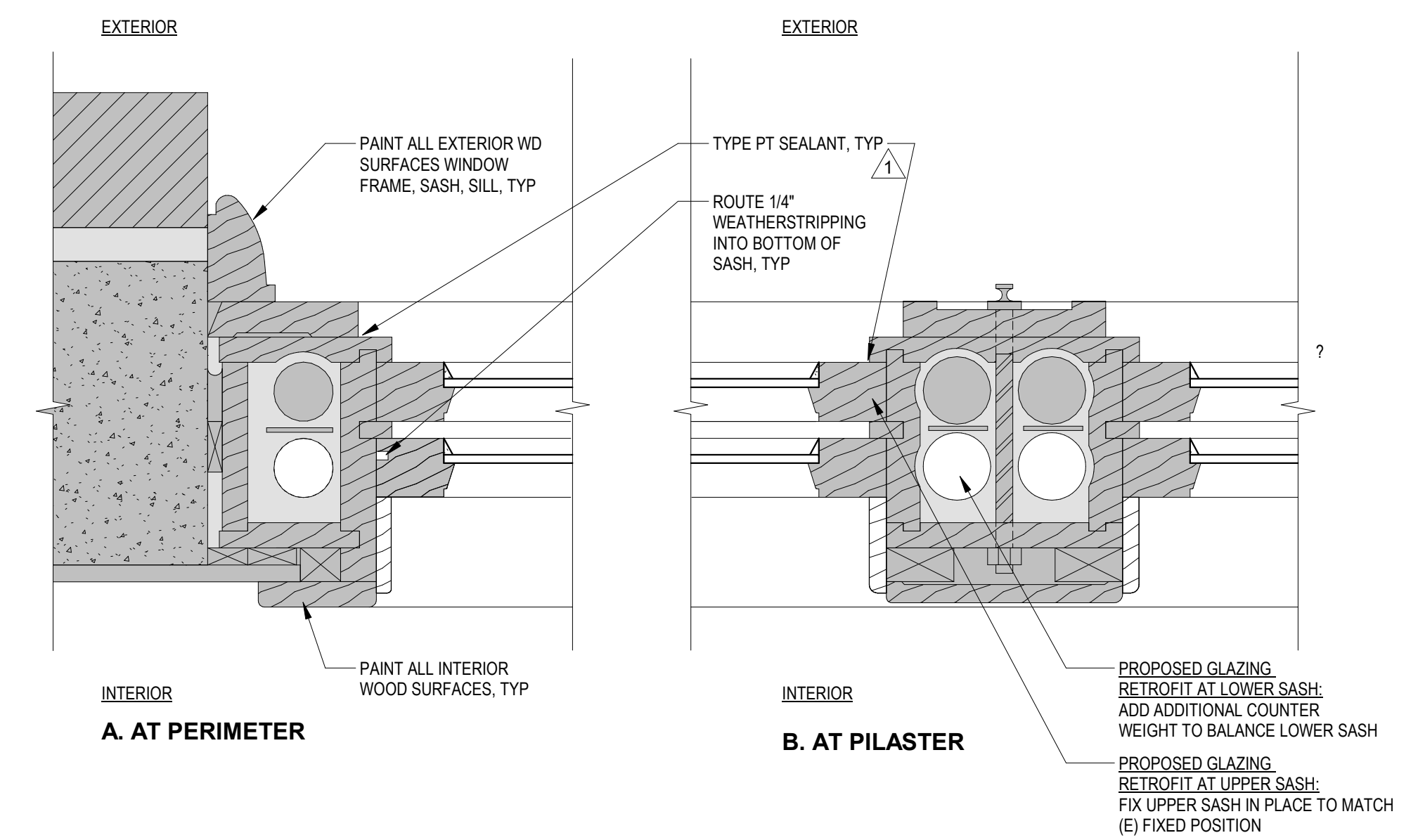
Description	Date
Correction Response 01	05/08/26



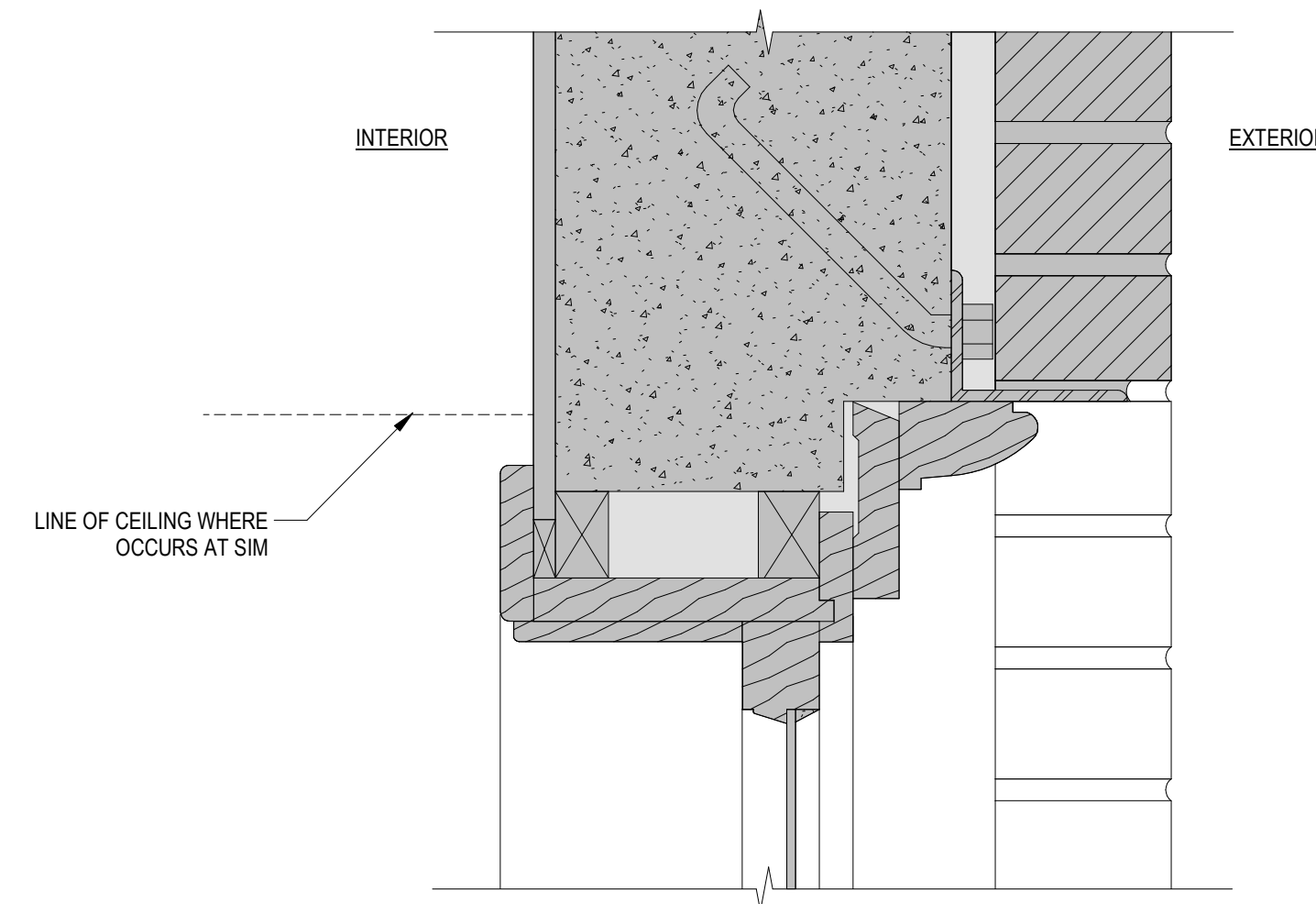
1 Historic Window at Historic R.O. - Jamb Detail
3" = 1'-0"



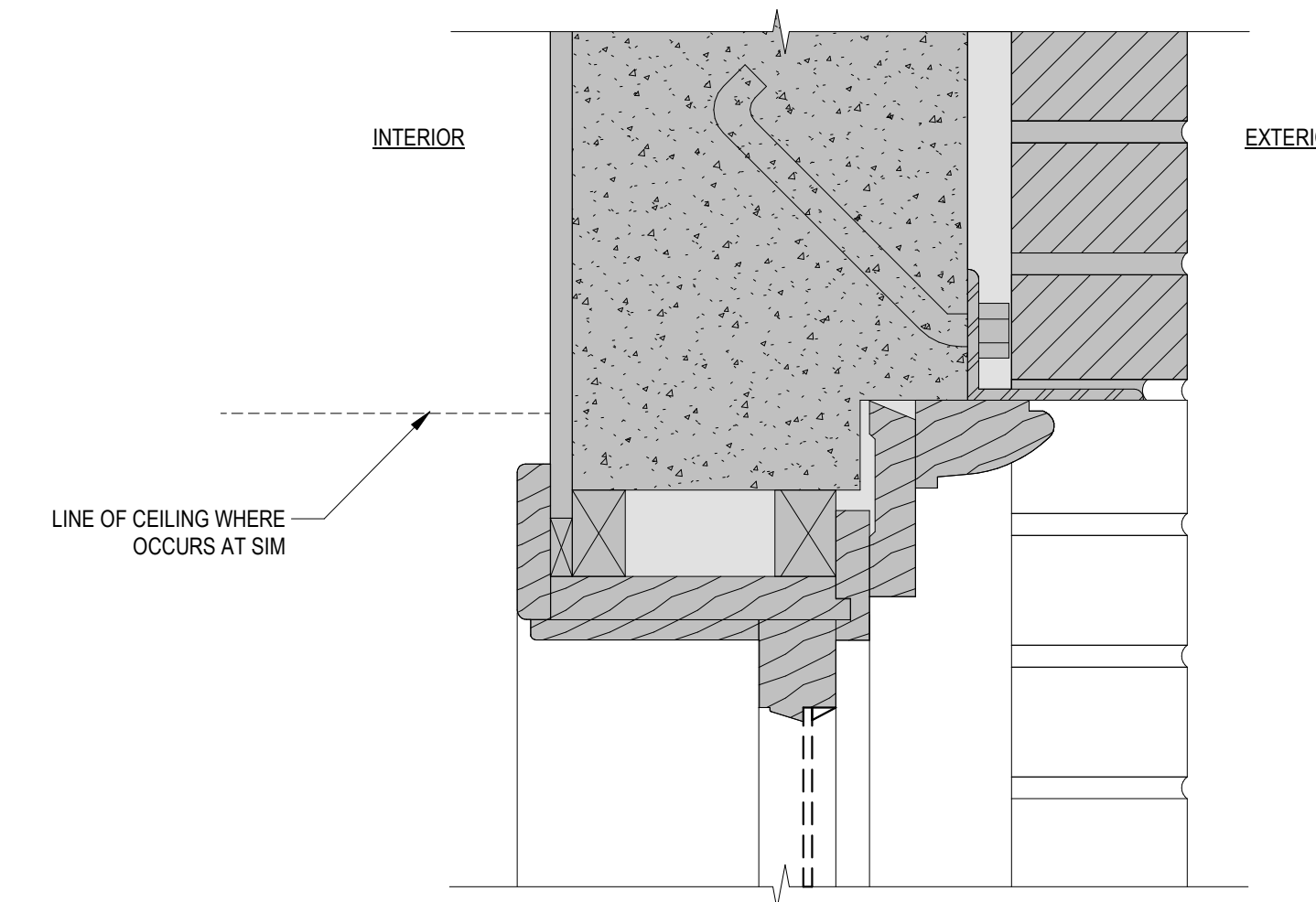
2 Selective Demolition at Historic Window at Historic R.O. - Jamb Detail
3" = 1'-0"



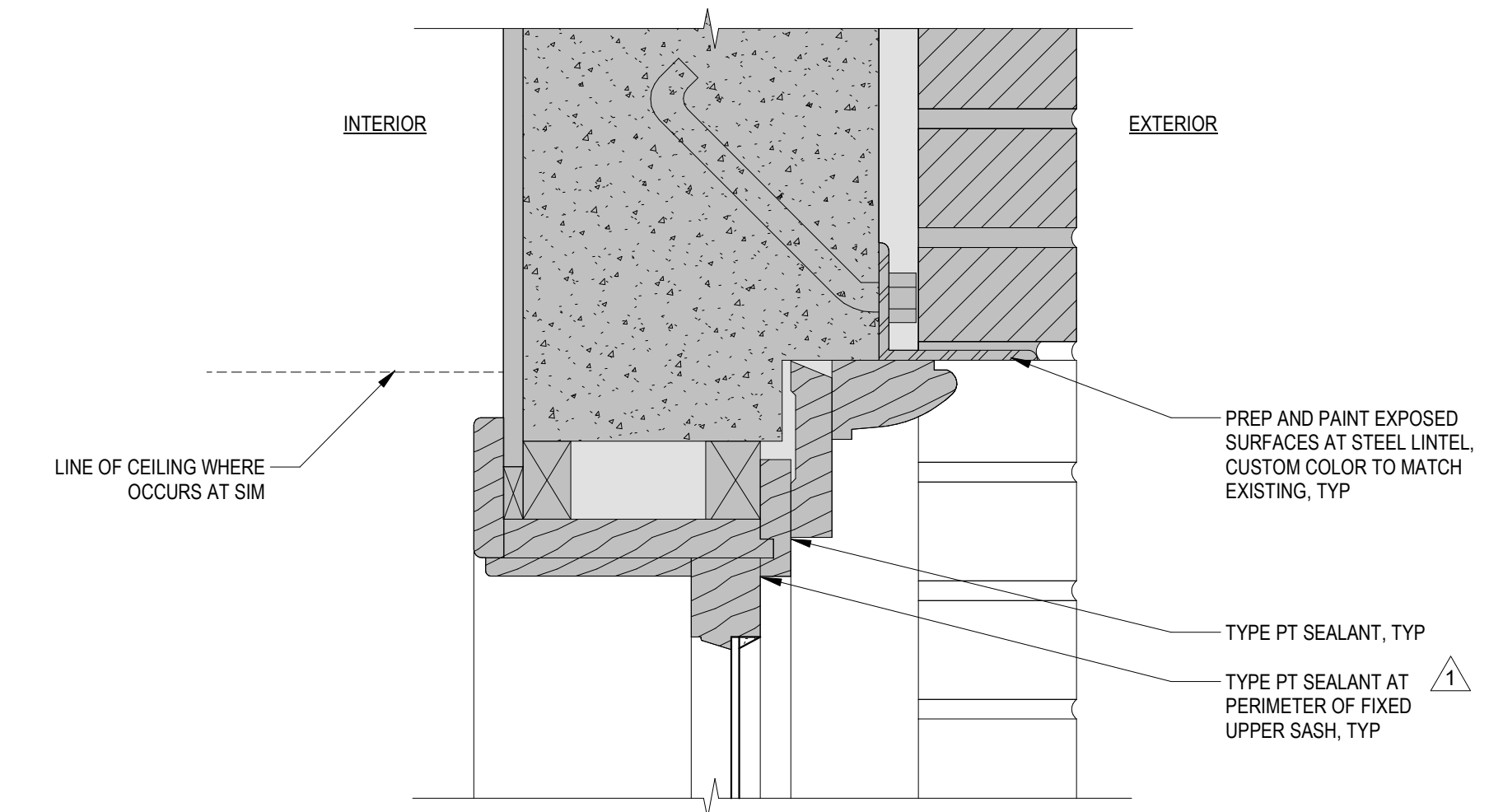
3 Proposed Historic Window at Historic R.O. - Jamb Detail
3" = 1'-0"



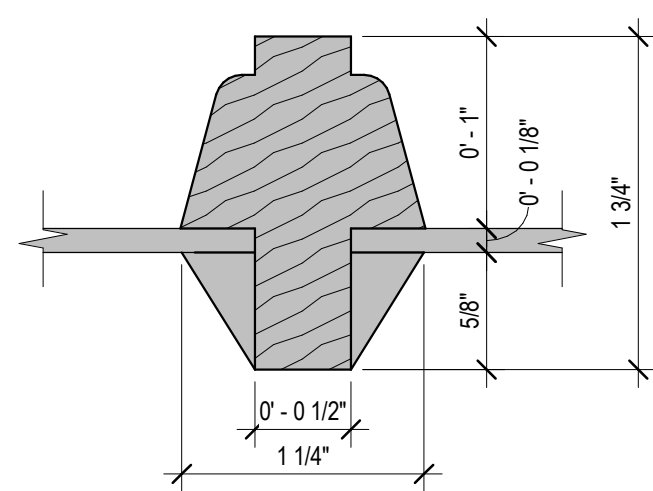
4 Historic Window at Historic R.O. - Head Detail
3" = 1'-0"



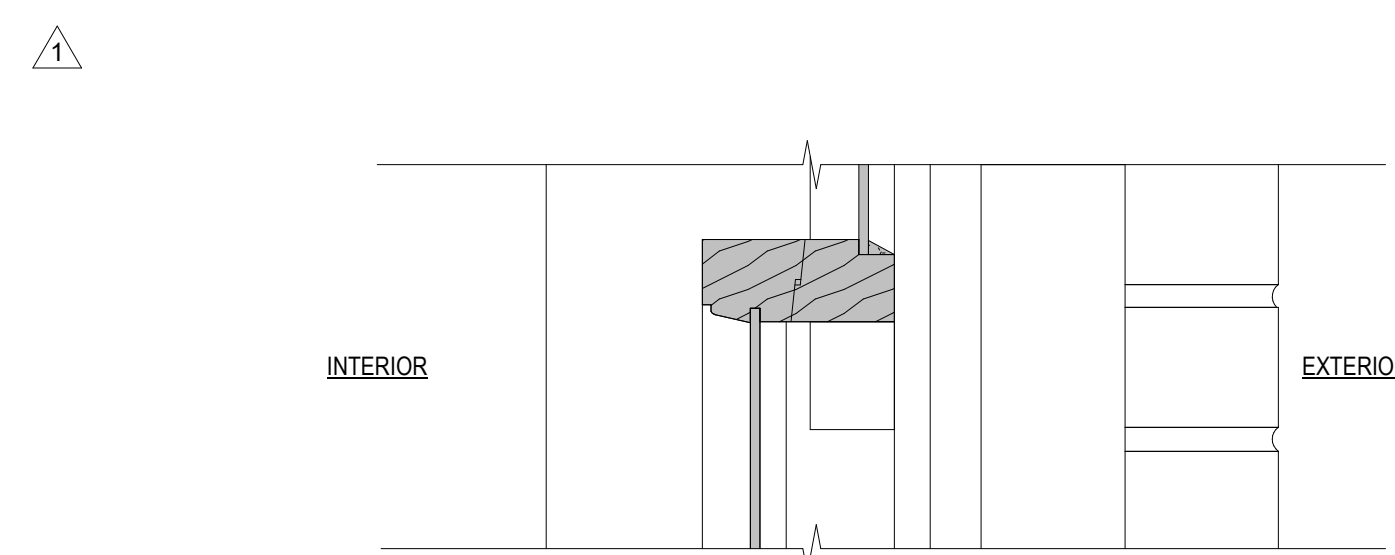
5 Selective Demolition at Historic Window at Historic R.O. - Head Detail
3" = 1'-0"



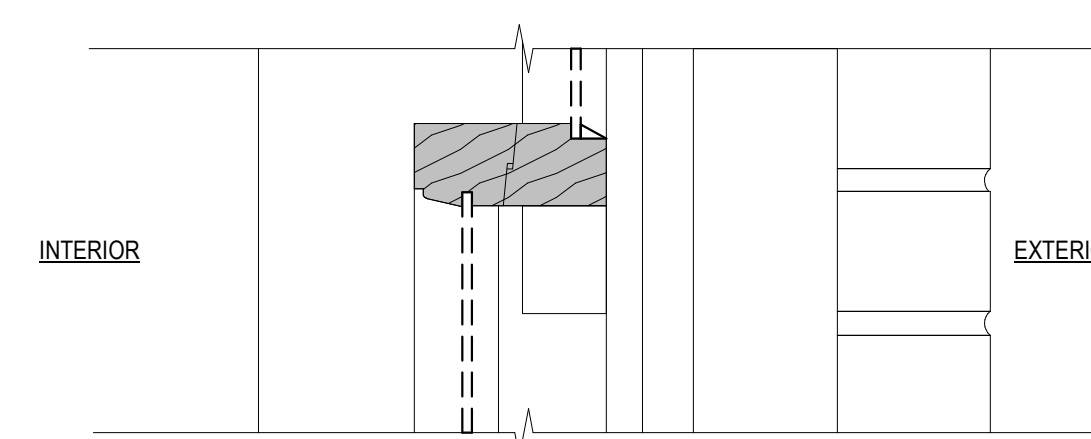
6 Proposed Historic Window at Historic R.O. - Head Detail
3" = 1'-0"



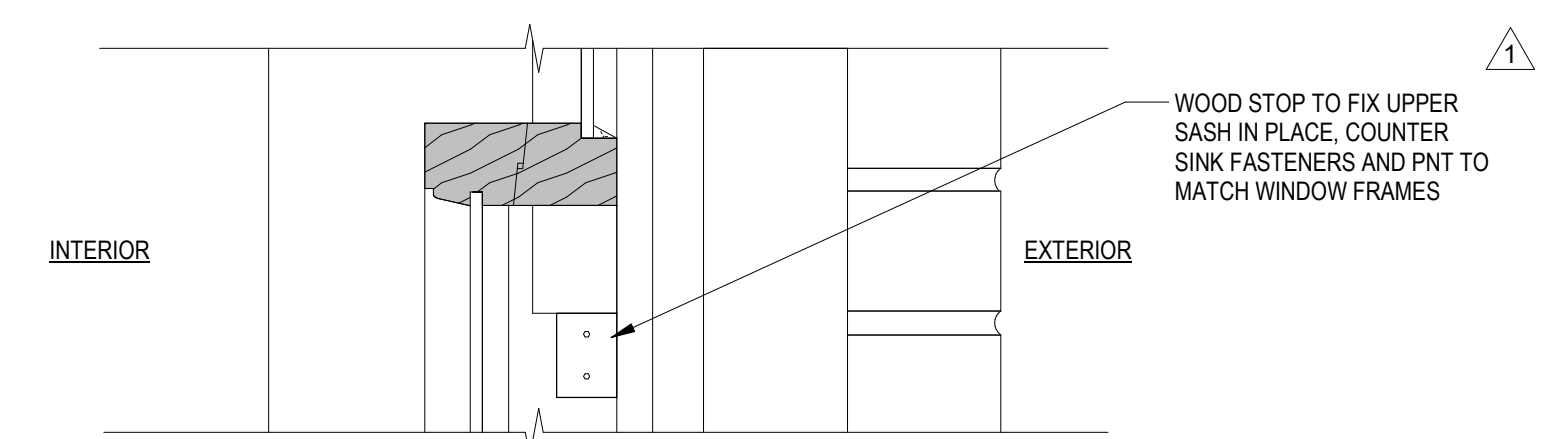
10 Existing Muntin
12" = 1'-0"



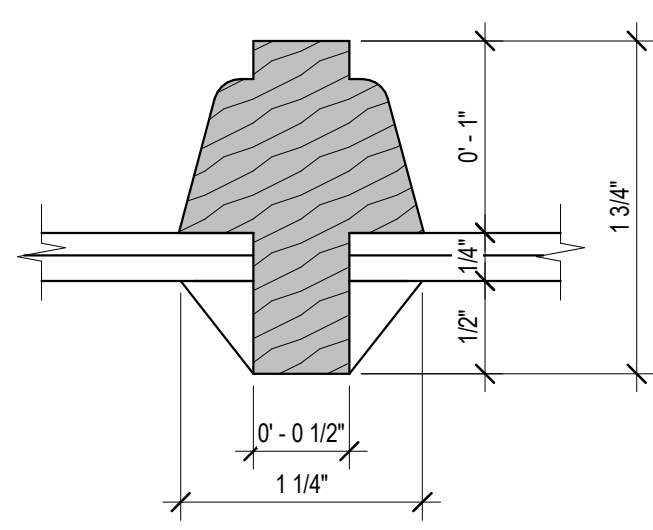
7 Historic Window at Historic R.O. - Meeting Rail Detail
3" = 1'-0"



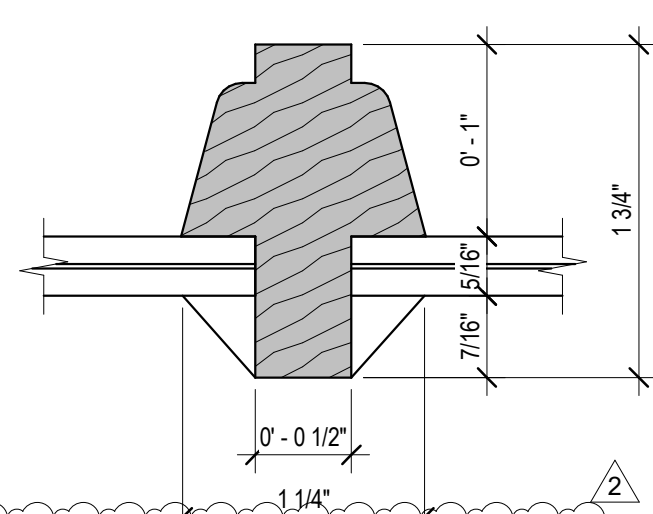
8 Selective Demolition at Historic Window at Historic R.O. - Meeting Rail Detail
3" = 1'-0"



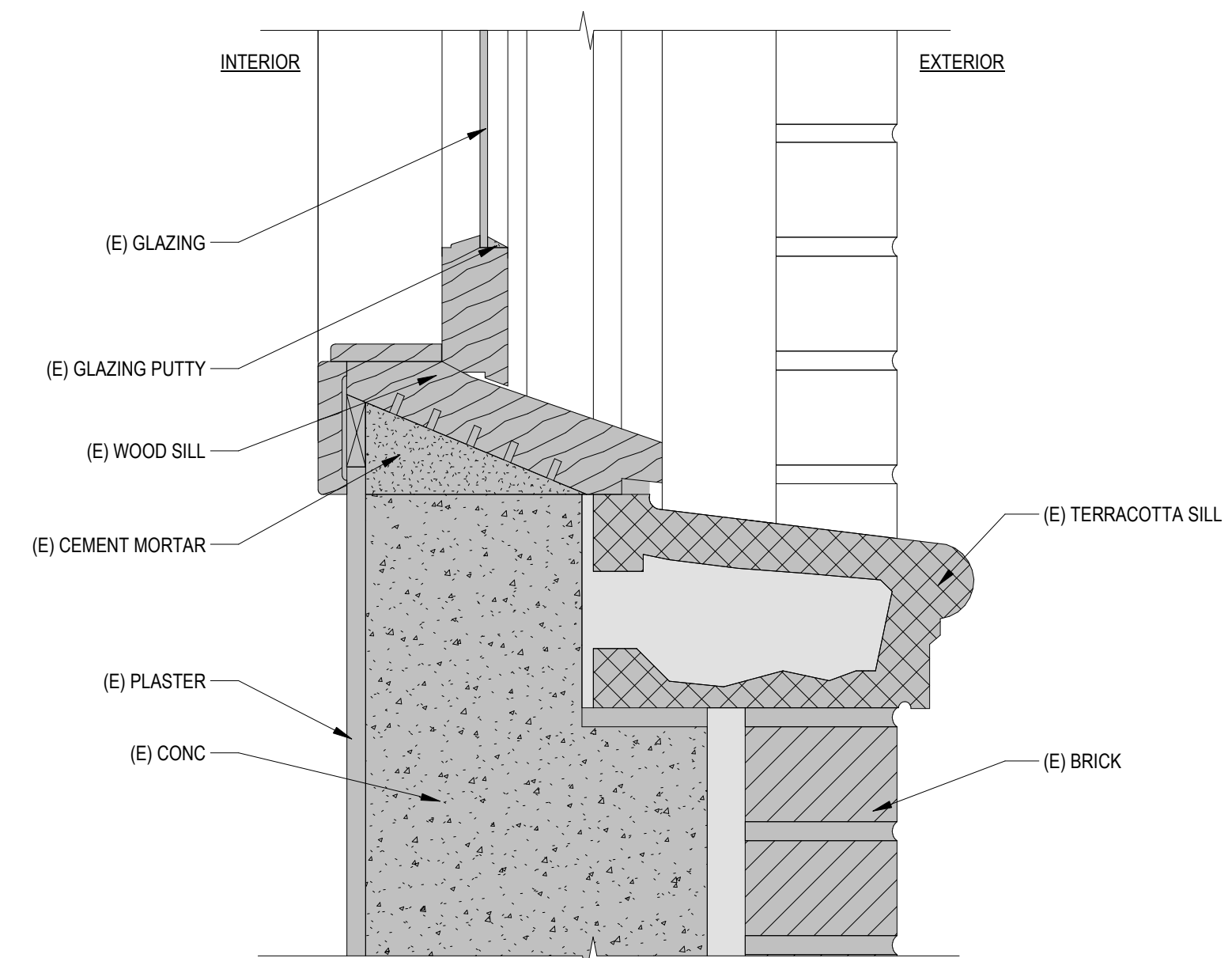
9 Proposed Historic Window at Historic R.O. - Meeting Rail Detail
3" = 1'-0"



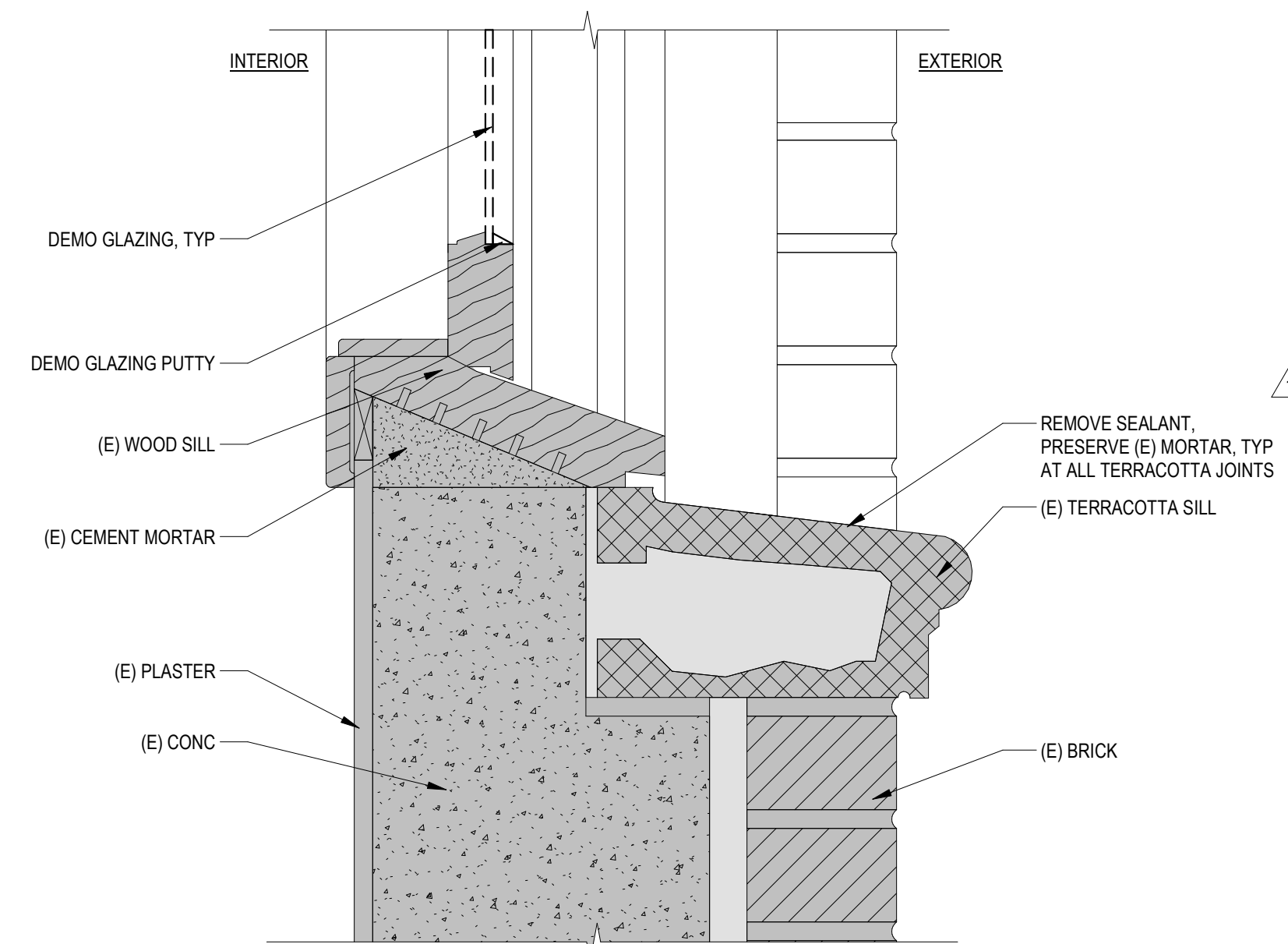
11a Proposed Muntin Laminated Glass with Low-E Coating
12" = 1'-0"



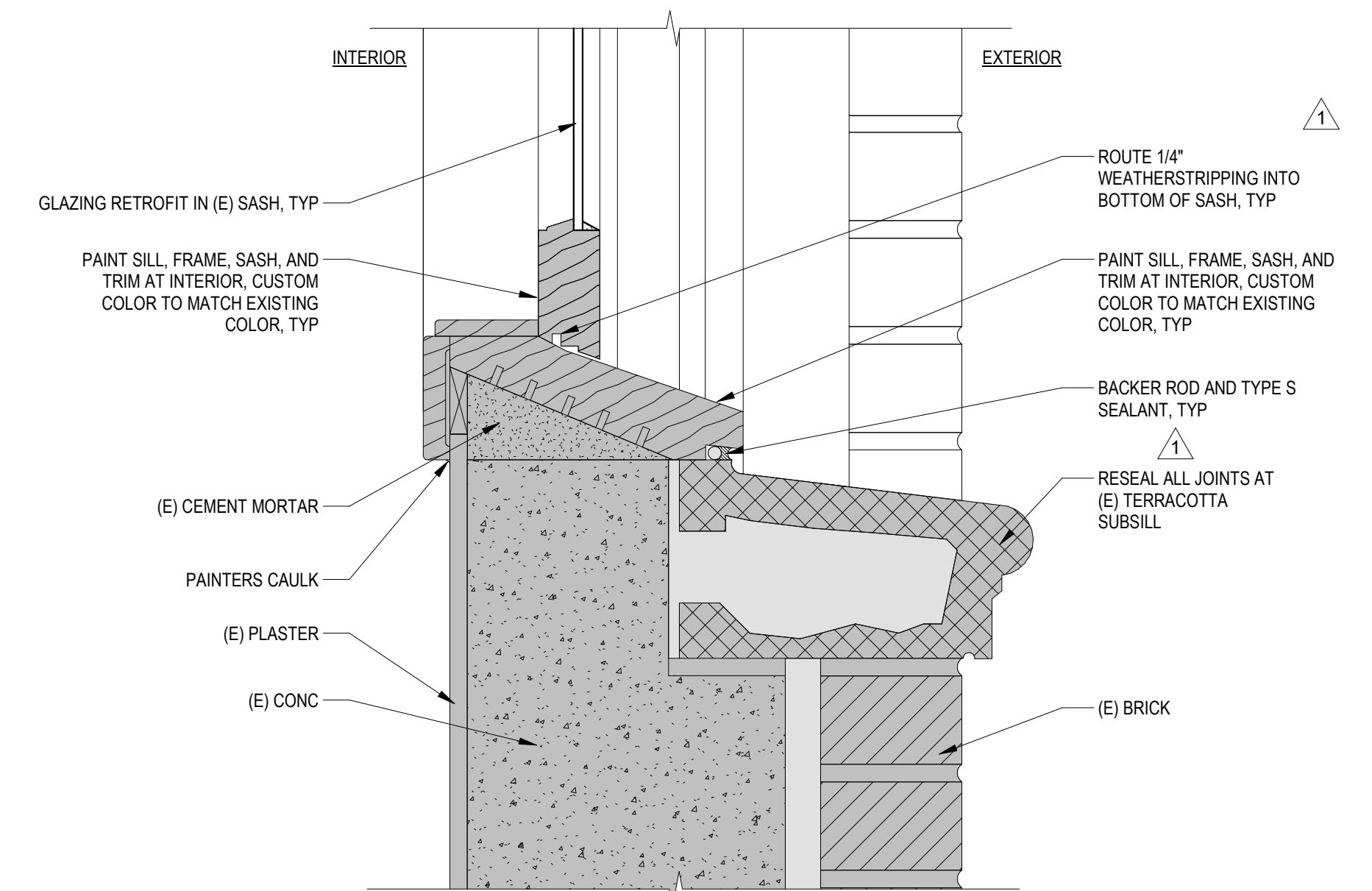
11b Proposed Muntin Vacuum-Insulated Glass
12" = 1'-0"



12 Historic Window at Historic R.O. - Sill Detail
3" = 1'-0"



13 Selective Demolition at Historic Window at Historic R.O. - Sill Detail
3" = 1'-0"



14 Proposed Historic Window at Historic R.O. - Sill Detail
3" = 1'-0"

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Cleaning of existing brick masonry surfaces.
 - 2. Repointing mortar joints.
- B. Related Sections:
 - 1. 040110 Maintenance of Terra Cotta
- C. Drawings, the provisions of the Agreement, the General Conditions, and Division 1 specification sections apply to all work of this Section.
- D. Substitutions: Substitute products will be considered only under the terms and conditions of Section 016310.

1.2 REFERENCES

- A. American Society for Testing and Materials (ASTM):
 - 1. C270 - Mortar for Unit Masonry.
 - 2. E2260 - Standard Guide for Repointing (Tuckpointing) Historic Masonry
- B. Masonry Institute of Washington (MIW) - Northwest Masonry Guide,
 - 1. Part IV / D.1 - Cleaning Masonry Construction
 - 2. Part IV / D.2 - Masonry Restoration
- C. National Park Service - Technical Preservation Services for Historic Buildings
 - 1. Preservation Briefs 2 - Re-pointing Mortar Joints in Historic Masonry Buildings.
 - 2. Preservation Briefs 7 - The Preservation of Historic Glazed Architectural Terra-Cotta.
 - 3. Preservation Briefs 42 - The Maintenance, Repair and Replacement of Historic Cast Stone.
 - 4. Preservation Brief 1 - Assessing Cleaning and Water-Repellent Treatments for Historic Masonry Buildings.
- D. Brick Institute of America (BIA) - Technical Notes on Brick Construction,
 - 1. Technical Note 7F - Moisture Resistance of Brick Masonry - Maintenance
 - 2. Technical Note 15 Re - Salvaged Brick

1.3 SUBMITTALS

- A. Make submittals in accordance with Section 013300.
- B. Submit product literature for each cleaning product proposed for use.

1.4 QUALITY CONTROL

- A. Mock-ups:
 - 1. Clean and repoint a minimum 2 x 2 foot area of wall in a location as directed by the Architect. Clean and repoint additional 2 x 2 foot areas until mock-up is approved.
 - 2. Adjust solution strength and cleaning procedures as required to obtain the most effective cleaning with the specified cleaner.
- B. Preliminary Testing for Cleaning Agents: Unless testing has been performed prior to bid, submit to the masonry cleaning materials manufacturer samples of masonry units from stock of those to be used in the work.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. In accordance with Section 016000.

1.6 ENVIRONMENTAL REQUIREMENTS

- A. Do not repoint, or clean masonry surfaces when temperature may drop below 40 degrees F within 24 hours.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Masonry Cleaner: Non-acidic commercial cleaning detergent.
 - 1. ProSoCo Enviro Klean "SafRestorer", or approved equal. Muriatic acid not permitted.
- B. Mortar:
 - 1. ASTM C270, Type 'N', typical
 - 2. Otherwise as determined by testing to be compatible with existing mortar and brick for masonry restoration and re-pointing.
 - 3. Do not use mortar that is denser and harder than existing brick.
 - 4. Color to match existing; commercially prepared type.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Prior to starting work carefully inspect the preparatory work of other sections and verify that such work is acceptable for the work of this section. Report all unacceptable conditions to the Architect in writing. Do not begin work in areas of unacceptable conditions until the conditions have been resolved.
- B. Starting work under this section constitutes contractor acceptance of existing conditions and responsibility for unacceptable work caused by prior foreseeable conditions.

3.2 PREPARATION

- A. Carefully remove and store fixtures, fittings, finishing hardware, and other removable accessories.
- B. Cover and protect glass, aluminum, painted surfaces, plants and shrubs, doorways, trim, roof membranes and flashings, prefinished metal panels, and other surfaces not to be cleaned.
- C. Build up dams to divert flowing water to a safe disposal location.

3.3 CLEANING EXISTING MASONRY

- A. Clean masonry in strict accordance with the cleaner manufacturer's recommendations and in accordance with procedures approved in the mock-up.
- B. Use only low hose pressures limited to 400 psi and fan-shaped nozzle types to prevent pitting brick and mortar and to prevent driving moisture into wall. Maintain appropriate clearance from the face of the wall.
- C. Immediately remove stains, efflorescence, overspray or spillage resulting from the work of this Section.
- D. Rinse in accordance with the cleaner manufacturer's recommendations.
- E. Take special precautions to protect glass, concrete, and other materials from etching and other damage resulting from cleaning agents and methods of cleaning. Protect stone and cementitious surfaces from contact with masonry cleaner to prevent etching of surfaces.
- F. Rinse with clean water. Leave brick face surfaces clean, free from mortar residue and stains.

3.4 TUCK POINTING

- A. Cut out loose or disintegrated mortar in joints to a 1/2 inch depth.
- B. Do not damage masonry units.
- C. When removal of mortar is complete remove dust and loose material by brushing.
- D. Apply mortar packed tightly in thin layers. Match existing joint treatment.
- E. Leave installation clean and free from residue and debris from work of this Section.

3.5 CLEAN UP

- A. Promptly as work proceeds and upon completion, remove excess mortar, smears, droppings.
- B. Clean adjacent and adjoining surface of marks arising from performance of work of this Section.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Cleaning of terracotta units.
 - 2. Repair of existing mortar joints in terracotta.
 - 3. Resealing of joints where mortar and/or sealant has been removed.
- B. Drawings, the provisions of the Agreement, the General Conditions, and Division 1 specification sections apply to all work of this Section.
- C. Substitutions: Substitute products will be considered only under the terms and conditions of Section 016310.

1.2 REFERENCES

- A. American Society for Testing and Materials (ASTM):
 - 1. C270 - Mortar for Unit Masonry.
 - 2. E2260 - Standard Guide for Repointing (Tuckpointing) Historic Masonry
- B. National Park Service (NPS) - Technical Preservation Services for Historic Buildings, Web Site <http://www2.cr.nps.gov/tps/briefs/presbhom.htm>
 - 1. Preservation Briefs 2 - Re-pointing Mortar Joints in Historic Masonry Buildings.
 - 2. Preservation Briefs 7 - The Preservation of Historic Glazed Architectural Terra-Cotta.

1.3 SUBMITTALS

- A. Make submittals in accordance with Section 013300.
- B. Submit product literature for each cleaning product proposed for use.

1.4 QUALITY CONTROL

- A. Mock-Up: Provide mock-up of terracotta sealant joints, one joint at parapet cap in the area of reroofing and multiple mockups at one full windowsill length, approximately 5 locations.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. In accordance with Section 016000.

1.6 ENVIRONMENTAL REQUIREMENTS

- A. Do not repoint, or clean masonry surfaces when temperature may drop below 40 degrees F within 24 hours.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Cleaner: Non-acid detergent type; ProSoCo "2010 All Surface Cleaner" or approved.
- B. Mortar:
 - 1. ASTM C270, Type O mortar (low-strength, lime-rich) or specialized natural hydraulic lime (NHL) mortars; color to match existing; commercially prepared type.
 - 2. Jahn M100 and M120 restoration mortars for Terra Cotta and Marble or approved alternate.
- C. Sealant: In accordance with Section 079200.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Prior to starting work carefully inspect the preparatory work of other sections and verify that such work is acceptable for the work of this section. Report all unacceptable conditions to the Architect in

writing. Do not begin work in areas of unacceptable conditions until the conditions have been resolved.

- B. Starting work under this section constitutes contractor acceptance of existing conditions and responsibility for unacceptable work caused by prior foreseeable conditions.

3.2 PREPARATION

- A. Carefully remove and store fixtures, fittings, finishing hardware, and other removable accessories.
- B. Cover and protect glass, aluminum, painted surfaces, plants and shrubs, doorways, trim, roof membranes and flashings, prefinished metal panels, and other surfaces not to be cleaned.
- C. Build up dams to divert flowing water to a safe disposal location.

3.3 GENERAL REQUIREMENTS

- A. Conform to provisions of Contract Documents including referenced NPS Preservation Briefs.

3.4 CLEANING EXISTING TERRACOTTA UNITS

- A. Clean terra cotta masonry in areas where joint resealing will occur, in strict accordance with the cleaner manufacturer's recommendations.
- B. Immediately remove stains, efflorescence, overspray or spillage resulting from the work of this Section.
- C. Rinse in accordance with the cleaner manufacturer's recommendations.

3.5 REPOINTING AND RESEALING

- A. Coordinate with Work of Section 079200.
- B. Preparation:
 - 1. Cut out loose or disintegrated mortar in joints to minimum 1/2 inch depth or until sound mortar is reached.
 - 2. Do not damage terracotta units.
 - 3. Rake out all caulked joints and remove all sealant and residue. Remove additional mortar, if it is found to be unsound. Remove any traces of mortar at joint interface to be pointed. When cutting is complete, remove all loose material with a brush. Care shall be taken during mortar and sealant removal not to damage the terra cotta units.
- C. Mortar Mixing:
 - 1. Pre-hydrate the mortar by thoroughly mixing all the dry ingredients. Then, mix again adding only enough water to produce a damp, unworkable mix which will retain its form when pressed into a ball. After keeping mortar in this dampened condition for one to two hours add enough water to bring it to proper consistency. Mortar may be retempered by adding water and remixing, as required for workability, Do not use mortar if more than 2-1/2 hours has elapsed since the pre-hydration of mortar has been completed.
 - 2. Do not proportion mortar mix by shovels. Use a 1 cubic foot box or other device to ensure that mortar is properly proportioned.
- D. Do not use frozen materials mixed with or coated with ice or frost. When temperature or surrounding air is 40°F and falling, take precautions to protect masonry materials from freezing. Comply with "Cold Weather Masonry Construction and Protection Recommendations" BIA Technical Note 1 A.
- E. Do not use any admixtures or accelerators in mortar.
- F. Dampen the joint to be pointed prior to pointing. The masonry must absorb all surface water.
- G. Pack the mortar tightly into the joint in thin layers (1/4 inch maximum layer thickness). Allow each layer to become thumbprint dry before applying next layer. Finish mortar 1/4 inch below top surface of terracotta units to allow for application of sealant.
- H. Tool joint to profile to match existing. Contractor may have to fabricate appropriate tooling devices as necessary to obtain an acceptable profile.

- I. Apply sealant in conformance with Section 079200.

3.6 CLEAN UP

- A. Promptly as work proceeds and upon completion, remove excess mortar, smears, droppings.
- B. Clean adjacent and adjoining surface of marks arising from performance of work of this Section.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY

- A. Items Included:
 - 1. Base sheet.
 - 2. PMMA Fluid-applied Roofing
- B. Related Sections:
 - 1. 061000 - Rough Carpentry: Wood nailers, curbs, and blocking, and for wood-based, structural-use roof deck panels.
 - 2. 076200 - Sheet Metal Flashing and Trim: Shop and field formed metal roof flashings and counter flashings.
 - 3. 079200 - Joint Sealants: Joint sealants, joint fillers, and joint preparation.
- C. Drawings, the provisions of the Agreement, the General Conditions, and Division 1 specification sections apply to all work of this Section.
- D. Substitutions: Substitutions will be considered only under the terms and conditions of Section 016310.

1.2 DEFINITIONS

- A. Roofing Terminology: Refer to ASTM D 1079 and glossary of NRCA's "The NRCA Roofing and Waterproofing Manual" for definition of terms related to roofing work in this Section.

1.3 PERFORMANCE REQUIREMENTS

- A. Provide installed roofing membrane and base flashings that remain watertight; do not permit the passage of water; and resist specified uplift pressures, thermally induced movement, and exposure to weather without failure.
- B. Material Compatibility: Provide roofing materials that are compatible with one another under conditions of service and application required, as demonstrated by roofing membrane manufacturer based on testing and field experience.
- C. Performance: Roofing system shall conform to the following:
 - 1. Wind Uplift: FM/Global: 1=90
 - 2. Fire: Minimum Underwriter's Laboratory Class B.

1.4 SUBMITTALS

- A. Make submittals in accordance with Section 013300.
- B. Product Data: For each type of product and component proposed, including membrane, insulation, fasteners, and accessories.
- C. Shop Drawings:
 - 1. Details for base flashings, membrane terminations, and penetration details.
 - 2. Tapered insulation patterns, including slopes, insulation thickness, cricket layouts.
- D. Quality Control Submittals:
 - 1. Installer Certificates: Signed by roofing system manufacturer certifying that Installer is approved, authorized, or licensed by manufacturer to install roofing system.
 - 2. Guarantee Draft: Concurrent with initial product data submittal, submit a draft of roof guarantee.
 - 3. Manufacturer's installation specifications.
- E. Contract Closeout Submittals:
 - 1. Maintenance Data: For roofing system to include in maintenance manuals.
 - 2. Warranties: Submit specified warranties.
 - 3. Inspection Report: Copy of roofing system manufacturer's inspection report of completed roofing installation.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: A qualified firm that is approved, authorized, or licensed by roofing system manufacturer to install manufacturer's product and that is eligible to receive manufacturer's warranty.
- B. Source Limitations: Obtain components for membrane roofing system from or approved by roofing membrane manufacturer.
- C. Pre-Installation Meeting:
 - 1. Prior to ordering materials and starting the work of this Section administer a pre-roofing meeting.
 - 2. Require in attendance the following parties:
 - a. Owner
 - b. Architect
 - c. General Contractor
 - d. Roofing installer
 - e. Sheet metal installer
 - f. Mechanical installer.
 - g. Roofing manufacturer's representative
 - 3. Agenda: Review all procedures, details, and sequence of construction. Discuss and determine responsibility for protection of the work during and after construction, and subsequent maintenance of the roofing system.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver roofing materials to Project site in original containers with seals unbroken and labeled with manufacturer's name, product brand name and type, date of manufacture, and directions for storing and mixing with other components.
- B. Store liquid materials in their original undamaged containers in a clean, dry, protected location and within the temperature range required by roofing system manufacturer. Protect stored liquid material from direct sunlight. Discard and legally dispose of liquid material that cannot be applied within its stated shelf life.
- C. Handle and store roofing materials and place equipment in a manner to avoid permanent deflection of deck.

1.7 PROJECT CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit roofing system to be installed according to manufacturer's written instructions and warranty requirements.

1.8 WARRANTY

- A. Manufacturer's Guarantee: Prior to acceptance of work, furnish manufacturer's written 15 year no dollar limit guarantee executed to the Owner. Guarantee shall include workmanship and materials, and shall cover roofing, flashing, and insulation.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer: A roof system by the following manufacturer is approved for application.
 - 1. Siplast, Inc.

2.2 ROOFING MEMBRANE SHEET MATERIALS

- A. Resin for Finish Ply Membrane Construction: A multi-component, fast-curing, flexible PMMA-based resin for use in combination with fleece fabric to form a monolithic, reinforced roofing membrane. Physical and mechanical values are based on testing/evaluation of a 90-mil (2.3 mm) PMMA roof membrane reinforced with the specified fleece reinforcement.
 - 1. Thickness (avg): 90 mils (2.3 mm) at 0.31 kg/ft² (3.3 kg/m²) coverage rate (ASTM D5147, section 5).
 - 2. Peak Load (avg) @ 73°F (23°C): 70 lbf/in (12.3 kN/m) (ASTM D5147 section 6)

3. Peak Load (avg) @ 73°F (23°C): 90 lbf/inch (15.8 kN/m) (ASTM D412, dumbbell)
4. Elongation at Peak Load (avg) @ 73°F: 35% (ASTM D5147, section 6)
5. Elongation at Peak Load (avg) @ 73°F: 35% (ASTM D412, dumbbell)
6. Shore A Hardness (avg): 81 (ASTM D2240)
7. Water Absorption, Method I (24h @ 73°F): 0.8% (ASTM D570)
8. Water Absorption, Method II (48h @ 122°F): 1.2% (ASTM D570)
9. Low temperature flexibility @ 23 F (-5°C): PASS (ASTM D5147, section 11)
10. Dimensional Stability (max): 0.15% (ASTM D5147, section 10)
11. Tear Strength (avg): 90 lbf (0.4 kN) (ASTM D5147, section 7)
12. Approvals: UL Class listed, FM Approved (products shall bear seals of approval)
13. Parapro Roof Resin by Siplast, Inc.

B. Fleece for Membrane Reinforcement: A non-woven, 110 g/m², needle-punched polyester fabric reinforcement as supplied by the membrane system manufacturer.

1. Pro Fleece by Siplast, Inc.

2.3 BASE FLASHING SHEET MATERIALS

A. Stripping and Flashing Reinforcing Ply: An ASTM D6163, Type I, Grade S homogenous membrane with a glass-fiber reinforcing mat impregnated/saturated and coated each side with SBS modified bitumen blend with a factory applied polymer modified asphalt self-adhesive on the back surface of the sheet to provide full adhesion to the total surface area of the substrate. The back side of the base ply shall be surfaced with a removable film, and the top of the sheet shall be surfaced with a factory-applied acrylic coating.

1. Pro Base SA by Siplast, Inc.

B. Liquid Flashing System: The specified liquid flashing system shall consist of a catalyzed PMMA-based membrane fully reinforced with a non-woven polyester fleece that is installed over a prepared or primed substrate.

1. Parapro 123 Flashing by Siplast, Inc.

2.4 RESIN ACCESSORIES

A. Cleaning Solution/Solvent: A clear solvent used to clean and prepare transition areas of in-place catalyzed resin to receive subsequent coats of resin and to clean substrate materials to receive resin.

1. Pro Prep by Siplast, Inc.

B. Preparation Paste: A PMMA-based paste used for remediation of depressions in substrate surfaces or other irregularities.

1. Pro Paste Resin by Siplast, Inc.

C. Repair Mortar: A two-component, PMMA-based, aggregate filled mortar used for patching concrete substrates.

1. Pro Mortar by Siplast, Inc.

D. Thixotropic Agent: A liquid additive used to increase the viscosity of the PMMA-based resin products, allowing the resins to be applied over sloped substrates.

1. Pro Thixo by Siplast, Inc.

E. Color Finish Resin: A pigmented, PMMA-based resin for used to provide a color finish for both field and flashing membranes.

1. Pro Color Finish by Siplast, Inc.

F. Catalyst: A peroxide-based reactive agent used to induce curing of PMMA-based resins.

1. Pro Catalyst Powder by Siplast, Inc.
2. Pro Catalyst Liquid by Siplast, Inc.

G. Primers for PMMA Resin-based Roof Membrane and Flashing

1. Primer for Wood, Plywood and Rigid Insulation, Masonry and Vertical Concrete Substrates: A fast-curing PMMA-based primer for use in over wood, plywood and rigid insulation substrates.
2. Pro Primer W by Siplast, Inc.

2.5 ACCESSORY MATERIALS

- A. Provide accessory materials recommended by roofing system manufacturer for intended use and compatible with membrane roofing.
- B. Liquid-type accessory materials shall meet VOC limits of authorities having jurisdiction.
- C. Sealant: A moisture-curing, self-leveling elastomeric sealant designed for roofing applications.
 - 1. PS-209 Elastomeric Sealant
- D. Sealant: A moisture-curing, non-slumping elastomeric sealant designed for roofing applications.
 - 1. PS-715 NS Elastomeric Sealant

2.6 ROOF DECKING BOARD

- A. Gypsum Decking: ASTM C 1177/C 1177M, glass-mat, water-resistant gypsum substrate, 5/8 inch thickness; "Dens-Deck" by Georgia-Pacific Corporation.

2.7 BASE SHEET

- A. Probase SA by Siplast

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Carefully examine substrate and adjacent construction, and verify that conditions are suitable for installation of the work as indicated and specified. Inspection shall ascertain that:
 - 1. All surfaces to be covered by roofing are properly pitched to drain, suitable for installation of roofing system free from susceptibility to puddling.
 - 2. Work of other trades is complete, including installation of blocking and grounds, vents, drains, curbs, and other projections.
 - 3. Substrate surface is clean and free from lumps, foreign matter, surface spalling or flaking, and excessive amounts of dust.
 - 4. Penetrations through the roof deck are properly configured and are a minimum of 16 inches between their closest edges.
 - 5. Verify that roof openings and penetrations are in place and set and braced and that roof drains are securely clamped in place.
 - 6. Verify that wood blocking, curbs, and nailers are securely anchored to roof deck at penetrations and terminations.

3.2 PREPARATION

- A. Clean substrate of dust, debris, moisture, and other substances detrimental to roofing installation according to roofing system manufacturer's written instructions. Remove sharp projections.
- B. Prevent materials from entering and clogging roof drains and conductors and from spilling or migrating onto surfaces of other construction. Remove roof-drain plugs when no work is taking place or when rain is forecast.
- C. Primer for Self-Adhesive Flashing Reinforcing Ply: Apply the specified tacky primer by roller or spray in an even film. Refer to the manufacturer's literature for the approved rate of application over various substrate types. Allow the primer to dry until it leaves a slightly sticky surface without transfer when touched. Cutting or alteration of the primer is not permitted.
- D. Preparation of Wood/Plywood Flashing Substrates to receive Resin: Prime wood/plywood surfaces to receive the specified flashing system with the specified PMMA-based primer at the rate specified by the resin manufacturer and allow primer to cure. Tape the joints between plywood or wood panels using gaffer's tape prior to application of the lashing system.
- E. Complete terminations and base flashings and provide temporary seals to prevent water from entering completed sections of roofing system at the end of the workday or when rain is forecast. Remove and discard temporary seals before beginning work on adjoining roofing.

3.3 GYPSUM DECKING INSTALLATION

- A. Lay down continuous layer of gypsum decking over metal deck substrates in accordance with the fire rated assembly requirements.
- B. Mechanically anchor in accordance with wind up-lift requirements.

3.4 INSTALLATION OF BASE SHEET

- A. Install self-adhesive base sheet in accordance with manufacturer's printed instructions.

3.5 MIXING OF RESIN PRODUCTS

- A. Preparation/Mixing/Catalyzing Resin Products: Pour the desired quantity of resin into a clean container and using a spiral mixer or mixing paddle, stir the liquid for the time period specified by the resin manufacturer. Calculate the amount of catalyst powder or liquid needed using the manufacturer's guidelines and add the pre-measured catalyst to the resin component. Mix again for the time period specified by the resin manufacturer, ensuring that the product is free from swirls and bubbles. To avoid aeration, do not use a spiral mixer unless the spiral section of the mixer can be fully contained in the liquid during the mixing process. Mix only enough product to ensure that it can be applied before pot life expires.
- B. Preparation/Mixing/Catalyzing Aggregate-Filled Resin Products: Pour the entire desired quantity of resin into a clean container and slowly add the pre-measured quantity of aggregate using a spiral mixer or mixing paddle, stirring the mixture for the time period specified by the resin manufacturer. Calculate the amount of catalyst powder or liquid needed using the manufacturer's guidelines and add the pre-measured catalyst to the resin/aggregate mixture. Mix again for the time period specified by the resin manufacturer, ensuring that the product is free from swirls and bubbles. To avoid aeration, do not use a spiral mixer unless the spiral section of the mixer can be fully contained in the liquid during the mixing process. Mix only enough product to ensure that it can be applied before pot life expires.

3.6 PREPARATION PASTE AND PRIMER APPLICATION

- A. Primer Application: Apply catalyzed primer resin using a roller or brush at the rate specified by the primer manufacturer over qualified and prepared substrates. Apply primer resin at the increased rate specified by the primer manufacturer over DensDeck Prime or other porous substrates. Do not let resin pool or pond. Do not under-apply or over-apply primers as this may interfere with proper primer catalyzation. Make allowances for waste, including saturation of roller covers and application equipment.
- B. Paste Application: Apply catalyzed preparation paste using a trowel over prepared and primed substrates. Before application of any resin product over cured paste, wipe the surface of the paste using the specified cleaner/solvent and allow to dry. Treat the surface again if not followed up by resin application within 60 minutes.

3.7 FLASHING AND FIELD MEMBRANE APPLICATION

- A. Base Flashing Application
 1. Using masking tape, mask the perimeter of the area to receive the flashing system. Apply resin primer to substrates requiring additional preparation and allow primer to cure.
 2. Pre-cut fleece to ensure a proper fit at transitions and corners prior to membrane application.
 3. Apply an even, generous base coat of flashing resin to prepared surfaces using a roller at the rate specified by the resin manufacturer. Work the fleece into the wet, catalyzed resin using a brush or roller to fully embed the fleece in the resin and remove trapped air. Lap fleece layers a minimum of 2 inch (5 cm) and apply an additional coat of catalyzed resin between layers of overlapping fleece. Again using a roller, apply an even top coat of catalyzed resin immediately following embedment of the fleece at the rate specified by the resin manufacturer, ensuring that the fleece is fully saturated. Ensure that the flashing resin is applied to extend beyond the fleece (maximum ¼-inch (6 mm)). Remove the tape before the catalyzed resin cures. Make allowances for waste, including saturation of roller covers and application equipment.
 4. Should work be interrupted for more than 12 hours or the surface of the cured resin becomes dirty or contaminated by the elements, wipe the surface to be lapped with new flashing resin

using the specified cleaner/solvent. Allow the surface to dry for a minimum 20 minutes and a maximum 60 minutes before continuing work.

B. Field Membrane Application

1. Using the specified cleaner/solvent, wipe flashing membrane surfaces to be lapped with field membrane. Allow the surface to dry for a minimum 20 minutes before continuing work.
2. Apply an even, generous base coat of field membrane resin to prepared surfaces using a roller at the rate specified by the resin manufacturer. Work the fleece into the wet, catalyzed resin using a 9-inch roller to fully embed the fleece in the resin and remove trapped air. Lap fleece layers a minimum of 2 inch (5 cm) and apply an additional coat of catalyzed resin between layers of overlapping fleece. Again using a roller, apply an even top coat of catalyzed resin immediately following embedment of the fleece at the rate specified by the resin manufacturer, ensuring that the fleece is fully saturated. Make allowances for waste, including saturation of roller covers and application equipment. Allow 2 hours cure time prior to exposing the membrane to foot traffic.

3.8 APPLICATION OF SEALANT

- A. Apply a smooth continuous bead of the specified sealant at the exposed finish ply edge transition to metal flashings incorporated into the roof system.

3.9 PROTECTING AND CLEANING

- A. Protect membrane roofing system from damage and wear during remainder of construction period. When remaining construction will not affect or endanger roofing, inspect roofing for deterioration and damage, describing its nature and extent in a written report, with copies to Architect and Owner.
- B. Correct deficiencies in or remove membrane roofing system that does not comply with requirements, repair substrates, and repair or reinstall membrane roofing system to a condition free of damage and deterioration at time of Substantial Completion and according to warranty requirements.

3.10 FIELD QUALITY CONTROL

- A. Notify the manufacturer of job completion in order to schedule a final inspection date. Hold a meeting at the completion of the project, attended by all parties that were present at the pre-job conference. A punch list of items required for completion shall be compiled by the manufacturer's representative. Complete, sign, and send the punch list form to the manufacturer's headquarters.
- B. Leave all areas around job site free of debris, roofing materials, equipment and related items after completion of job.
- C. Complete all post installation procedures and meet the manufacturer's final endorsement for issuance of the specified guarantee.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Sheet metal flashing and trim.
 - 2. Requirements for flashing and sheet metal provided in other Sections.
- B. Related Sections: 075600 - Fluid Applied Roofing
- C. Drawings, the provisions of the Agreement, the General Conditions, and Division 1 specification sections apply to all work of this Section.
- D. Substitutions: Substitute products will be considered only under the terms and conditions of Section 016310.

1.2 REFERENCES

- A. American Society for Testing and Materials (ASTM)
 - 1. A167 - Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
- B. Federal Specifications (FS): FS SS-C-153 - Cement, Bituminous, Plastic.
- C. Sheet Metal and Air Conditioning Contractors National Association (SMACNA): Architectural Sheet Metal Manual, Sixth Edition 2003.

1.3 SYSTEM DESCRIPTION

- A. Provide flashing and trim systems to prevent water leakage to the building interior.
- B. Fastening systems shall allow for the thermal movement of the materials without buckling, loosening, and leakage.

1.4 SUBMITTALS

- A. Make submittals in accordance with Section 013300.
- B. Product Data: Catalog cuts and installation instructions for manufactured products.
- C. Shop Drawings: Indicate materials, gages, profiles, jointing patterns, jointing details, fastening methods, and installation details.

1.5 QUALITY ASSURANCE

- A. Applicator: Company specializing in sheet metal flashing work with 5 years minimum experience.
- B. Unless indicated or specified otherwise, perform work in accordance with the recommendations of SMACNA.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. In accordance with Section 016000.
- B. Stack material to prevent twisting, bending, and abrasion, and to provide ventilation.
- C. Prevent contact with materials during storage which may cause discoloration, staining, or damage.

1.7 GUARANTEE

- A. Submit in accordance with Section 017700.
- B. Furnish guarantee from the installer of each system that metal flashings will properly shed water to the roof or to the building exterior, under all weather conditions, for a minimum period of two years from the date of Substantial Completion. Leaks due to failure of flashing materials, and due to improper installation shall be promptly repaired at no expense to the Owner, and that watertightness of the repair will be demonstrated to the Owner.

PART 2 - PRODUCTS

2.1 SHEET MATERIALS

- A. Stainless Steel: ASTM A167; Type 302 or 304; #4 finish.

2.2 ACCESSORIES

A. Fasteners:

1. Furnish bonded stainless steel / neoprene sealing washers for exposed applications.
2. Finish exposed fasteners to match material being fastened.
3. Material:
 - a. Stainless Steel: Stainless Steel.
4. Use screws when fastening into wood or sheet metal.
5. Use expansion anchors or drive pins when fastening into concrete or masonry.

B. Sealants:

1. Lap and Bedding Sealant: Butyl Rubber Type - One of the Following:
 - a. "Butyl Sealant" by Tremco, Inc. Sealant/Weatherproofing Division; Beachwood, OH; 800-321-7906; 216-292-5000)
 - b. "BP-400" by Adco Global, Inc. (800-248-4010).
2. Exposed Joint Sealant: Polyurethane Sealant - One of the Following:
 - a. "Chem-Calk 900" by Bostik Construction Products (Huntington Valley, PA; 800-221-8726; 215-674-5600).
 - b. "Dynatrol I" by Pecora Corp. (Harleysville, PA; 800-664-7903; 215-799-7528).
 - c. "Sonolastic NP I" by Sonneborn/ChemRex (Shakopee, MN; 800-433-9517; 952-496-6000).

- C. Slip Sheet: Rosin sized building paper.]

2.3 FABRICATION

A. General Requirements:

1. Field measure site conditions prior to fabricating work.
2. Form sections true to shape, accurate in size, square, and free from distortion or defects.
3. Fabricate cleats and starter strips of same material as sheet; interlockable with sheet.
4. Form pieces in longest practical lengths, except as limited by expansion joint requirements.
5. Non-Moving Joints: Shop fabricate to the greatest practical extent.
 - a. Solder all non-moving shop fabricated joints in steel and stainless steel flashing.
6. Hem exposed edges on underside 1/2 inch; miter and seam corners.
7. Shop fabricate corner sections with non-moving corner joints and 18 inch long legs.
8. Fabricate vertical faces with bottom edge formed outward 1/4 inch and hemmed to form drip.
9. Form seams lapped in the direction of water flow.

B. Fabricate all flashing to detail, in accordance with referenced SMACNA Architectural Sheet Metal Manual details, and as specified below. Use minimum 24 gage stainless steel sheet unless indicated or specified otherwise.

1. Embedded Flashing: Fabricate embedded flashing with provisions for removable counter flashing (SMACNA Figure 4-4 snaplock or screw-retained configuration; shop fabricated corners). Fabricate all receivers and flashings which are built into brick veneer, precast concrete, cement plaster, and other similar construction, of 24 gage stainless steel. Fully exposed and removable counter flashing which is connected to embedded flashing may be 24 gage prefinished galvanized sheet. Supply embedded flashing to the appropriate installers for installation as a part of their Work.
2. Sheet Metal Roof Flashing: Minimum 24 gage stainless steel with flat locked and soldered seams; equip with removable counter flashing at perimeter edges.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Prior to starting work, carefully inspect installed work of other trades and verify that such work is complete to the point where work of this Section may properly commence. Notify the Architect in writing of conditions detrimental to the proper and timely completion of the work.
- B. Do not begin installation until all unsatisfactory conditions are resolved. Beginning work constitutes acceptance of site conditions and responsibility for defective installation caused by prior observable conditions.

3.2 INSTALLATION

- A. Coordinate and sequence flashing installation with the work of other Sections. Furnish flashing to other trades as necessary for installation as a part of the work of other Sections.
- B. Use slip sheet under all flashing with solid backing.
- C. Install starter and edge strips, and continuous cleats before starting installation.
- D. Fastening:
 - 1. Secure flashings using continuous cleats whenever possible. Use exposed fasteners only at the backside of copings, and at other locations not exposed to public view, unless otherwise approved by the Architect.
 - 2. Fit flashings tight in place. Make corners square, surfaces true and straight in planes, and lines accurate to profiles.
 - 3. Insert counterflashings into receivers to form tight fit; where snap fit is not provided, secure in place with stainless steel sheet metal screws, 16" o.c., maximum. Stagger counterflashing joints with receiver joints]
 - 4. Insert flashings into reglets to form tight fit; secure in place.
- E. Joints:
 - 1. Install metal flashings (including embedded flashings and reglets) with provision for plus or minus 1/16 inch thermal movement at each end; provide expansion joints at 12'-0" o.c., maximum.
 - 2. Seal concealed lap joints in with two parallel beads of butyl sealant; use butyl sealant where bedding sealant is indicated or required.

3.3 FIELD TESTING

- A. Upon request of the Architect, demonstrate that installation is completely watertight by hosing with water as directed.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Cleaning and preparation of joint surfaces.
 - 2. Sealant and backing materials.
- B. Related Sections:
 - 1. 078400 - Firestopping: Fire penetration sealants.
 - 2. 081400 - Wood Doors
 - 3. 088000 - Glazing: Glazing sealants.
 - 4. 093000 - Tiling: Grout color samples.
 - 5. 099000 - Painting and Coating
- C. Drawings, the provisions of the Agreement, the General Conditions, and Division 1 specification sections apply to all work of this Section.
- D. Substitutions: Substitute products will be considered only under the terms and conditions of Section 016310.

1.2 REFERENCES

- A. American Society for Testing and Materials (ASTM):
 - 1. C1193 - Guide for Use of Joint Sealants.
 - 2. C1521 - Standard Practice for Evaluating Adhesion of Installed Weatherproofing Sealant Joints
- B. Waterproofing & Restoration Institute (SWR): "The Professional's Guide".

1.3 SUBMITTALS

- A. Make submittals in accordance with Section 013300.
- B. Product Data: Submit for each sealant material used.
 - 1. Include manufacturer's surface preparation, priming, and installation instructions for each proposed sealant.
 - 2. Include requirements for joint size ratios, adhesion testing, and perimeter conditions requiring special attention.
 - 3. Include information for accessories and other required components.
- C. Samples:
 - 1. Submit cured samples of each sealant type and color proposed for the work.
 - 2. For each sealant type indicated for "color as selected," or for which no color is indicated, submit color card indicating available stock colors from manufacturer's complete line of pre-formulated colors for each type of sealant.
 - 3. For custom colors, request color selection from the Architect prior to sample submittal.
- D. Quality Control Submittals:
 - 1. Schedule of sealant types, colors and respective locations.
 - 2. Letter from the sealant manufacturer stating that each exterior sealant has been tested for compatibility with adjacent materials and is acceptable for use in the Project. Sealant manufacturer shall provide preparation and primer recommendations. Notify Architect of incompatibility.
- E. Field Adhesion Test Reports.
- F. Sample Warranties.

1.4 QUALITY ASSURANCE

- A. Installers:
 - 1. Contractor shall provide well trained, experienced, skilled personnel to perform the Work. Personnel shall be skilled and experienced to successfully complete the Project in a weatherproof and watertight manner. Installers shall be specially trained in the techniques of

sealing, and familiar with the published recommendations of the manufacturers of the sealants being used.

2. The Contractor shall establish and follow best practices for the trade and of quality-control and quality assurance to assure each and every building envelope system's successful completion.
- B. Preconstruction Meeting:
1. Prior to ordering materials and starting work of this Section, administer a preconstruction meeting in accordance with Section 013119.
 2. Require the following parties in attendance: Owner's Project Manager, Project Architect, Contractor, Superintendent, and designated lead foreman (lead installer), and sub-contractor/installers whose work interfaces with or affects the installation of sealant joints.
 3. Project Team shall examine Project Site to analyze site conditions, including surfaces and joints to be sealed so that adjustments may be made, should adverse conditions exist.
- C. Verify that sealants are compatible with the substrates and accessory materials provided under other Sections. Notify Architect of evidence of incompatibility.
- D. Perform pull tests to verify adhesion to all substrates as specified.
- E. The Contractor shall notify the Architect, the Owner's Project Manager, and Manufacturer at least fourteen (14) days prior to commencement of the work.
- F. Manufacturer's Responsibilities: The Manufacturer's Technical Services Representative shall be available for technical information and project-site meetings, and be thoroughly experienced with the products to be installed, installation requirements, and practices, quality control of the installation, and with published special consideration in the geographical area and climate where construction will take place.
- G. On-Site Observation and Testing:
1. The Owner reserves the rights to have a representative perform observation or monitoring of the sealant installation.
 2. Such observation shall not relieve the Contractor of responsibility for proper execution and thorough completion of the Work.
 3. Any testing that may be deemed necessary will be performed to determine compliance with these Contract Documents. See Field Quality Control.

1.5 ENVIRONMENTAL CONDITIONS

- A. Unless recommended otherwise by the manufacturer, install sealant systems as follows:
1. Do not apply sealant when ambient temperatures are below 40 degrees F, or expected to fall below 40 degrees F before sealant cure is complete.
 2. Do not apply sealant to substrates or accessories that are moist.
 3. Do not apply sealant to substrates where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

1.6 MANUFACTURER'S WARRANTY

- A. Manufacturer's Warranty: Manufacturer agrees to furnish joint sealants to repair or replace those joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
1. Warranty Period: Unless otherwise specified, provide manufacturer's 5-year materials warranty from date of Substantial Completion.
 2. Furnish Type S sealant manufacturer's 20-year materials warranty from date of Substantial Completion.
- B. Warranty against defects in materials including, without limitation, the following:
1. Cohesive failure.
 2. Staining of surfaces adjacent to joints by sealant or primer.
 3. Chalking or visible color change on surfaces of the cured sealant.

1.7 GUARANTEE

- A. Furnish guarantees in accordance with Section 017736.

- B. Furnish a 5 year installer's guarantee from date of Final Completion covering defects in installation.

PART 2 - PRODUCTS

2.1 SEALANTS

- A. Type S - Neutral Cure Silicone Sealants: Type NS, 50, NT: Single-component, nonsag, plus 50 percent and minus 50 percent movement capability, nontraffic-use, neutral-curing silicone joint sealant; ASTM C 920, Type S, Grade NS, Class 50, Use NT. Provide one of the following or approved, subject to performance and warranty requirements:
 - 1. DowSil 790 or 795.
 - 2. Spectrem 3 by Tremco Incorporated.
 - 3. General Electric Co. "Ultrapruf II SCS-2900."
 - 4. General Electric Co. "Silpruf."
- B. Type P: ASTM C920, Type M, grade NS, Class 25; Tremco "Dymeric," Chem-Calk 500, Pecora "Dynatrol II," Sonneborn "Sonalastic NP-II", PRC "Permapol RC-2," or approved.
- C. Type PT: ASTM C920, Type M, Grade P, class 25; Tremco "THC 900", Sonneborn/ChemRex "Sonolastic SL 2", Pecora "Urexpan NR-200", or approved; standard colors as selected.
- D. Type PTNS: ASTM C920, Type M, grade NS, Class 25, Use T; Pecora "Dynatred," Tremco "THC901," Sika "Sikaflex-2c NS TG," or approved; custom colors to match the Architect's samples.
- E. Type A: ASTM C834; Tremco "Acrylic Latex Caulk," Pecora "AC-20," Sonneborn/ChemRex "Sonolac," or approved; standard colors to match adjacent construction.
- F. Type SM: Mildew Resistant Silicone Sealant: USDA approved; Dow Corning 786 by Dow Chemical, 898 Silicone" by Pecora (800-523-6688), Sonolastic Omniplus by Sonneborn/ChemRex, Sanitary 1702 Silicone Sealant by GE Silicones / General Electric Company, or approved; white color.
- G. Type E: "Masterfill CJ" by Master Builders, Inc. (216/831-5500), "Epoxolith-P or G" by Sonneborn (800/243-6739), "EP-1200" by Pecora Corporation (800/523-6688), or "Spal-Pro XL" by Metzger-McGuire (800/223-6680); standard gray color.
- H. Type B: Butyl Joint Sealants, Non-Skinning Type; "Sikalastomer 511" by Sika.

2.2 COMPRESSIBLE FOAM TAPE

- A. Precompressed self-adhesive closed-cell polyurethane foam tape; grey or black color; "Greyflex" by Emseal Joint Systems, Ltd., "Will-Seal" by Illbruck., or approved.
- B. Furnish tape in thickness recommended by the manufacturer for widths of joints to be filled.

2.3 ACCESSORY MATERIALS

- A. Primer: Non-staining type, recommended by sealant manufacturer to suit application.
- B. Joint Cleaner: Non-corrosive and non-staining type, recommended by sealant manufacturer; compatible with joint forming materials.
- C. Backer Rod:
 - 1. Closed or open cell foam as recommended by the sealant manufacturer for the application; round profile; thickness approximately 130 percent of joint width.
 - 2. Closed-cell Neoprene Sponge with Tear Strip, "NSTA control/expansion joint sponge" by Hohmann & Barnard. Tear-strip depth to match specified sealant joint depth, thickness as recommended by product Manufacturer to tightly fit joint for masonry and concrete joints.
- D. Bond Breaker: Pressure sensitive tape recommended by sealant manufacturer to suit application.
- E. Vent Tubes: Polyvinyl chloride or other non-staining material; 1/4- to 3/8-inch inside diameter, of appropriate length to penetrate joint backing and project a minimum of 1/8-inch beyond exposed surface of tooled sealant joint.
- F. Masking Tape: Nonstaining nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

- G. Masonry Sand: Masonry sand for sanded sealant joint locations.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Prior to starting work, carefully inspect installed work of other trades and verify that such work is complete to the point where work of this Section may properly commence. Notify the Architect in writing of conditions detrimental to the proper and timely completion of the work.
- B. Do not begin installation until all unsatisfactory conditions are resolved. Beginning work constitutes acceptance of site conditions and responsibility for defective installation caused by prior observable conditions.
- C. Verify joint dimensions and conditions are acceptable to receive the work of this Section.
- D. Ensure that new concrete and masonry substrates have cured a minimum of 28 days.

3.2 PREPARATION

- A. Clean and prepare joints in accordance with manufacturer's instructions. Remove any loose materials and other foreign matter which might impair adhesion of sealant.
- B. Apply masking tightly around joints to protect adjacent surfaces from excess sealant.
- C. Prime as required for proper bond to substrate materials. Install sealant to primed substrates after primer/ adhesion promoter has cured per the Manufacturer's recommendations.
- D. Backing Materials:
 - 1. Place backer material to achieve proper sealant width/depth ratios and to prevent sealant sag.
 - 2. Use bond breaker where there is insufficient depth to use joint filler.
 - 3. Fillet Joints: Where backer materials cannot be used apply bond-breaker tape per sealant Manufacturer's application instructions.
 - 4. Do not use backer material and bond breaker at joints to receive Type PTNS and Type E sealants.
- E. Joint Widths:
 - 1. Verify joints are greater than 1/4"-inch or minimum widths required by manufacturer, whichever is greater. If joints are narrower than minimum required widths, widen narrow joints to indicated width. Do not place sealant in joints narrower than Manufacturer's required minimum.
- F. Seal locations as necessary to create continuous enclosure unless where discontinuous sealant joints are required for drainage
- G. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint sealant

3.3 INSTALLATION

- A. Perform work in accordance with ASTM C1193, unless specified otherwise or recommended otherwise by the sealant manufacturer.
- B. Apply sealant within recommended temperature ranges.
- C. Joint Profile:
 - 1. Sealant beads shall have a sectional width to depth ratio of 2 to 1, unless specified otherwise or recommended otherwise by the sealant manufacturer.
 - 2. Install Type PTNS sealant full depth in tile expansion joints with no backer rod.
 - 3. Install Type E sealant to a minimum depth of 2 inches in concrete slab construction joints, and full depth in saw cut control joints.

- D. Tooling:
 - 1. Tool joints concave, unless indicated or specified otherwise. Finish to uniform profile and depth, free of air pockets, embedded matter, ridges, and sags.
 - 2. Tool type PTNS sealant to match grout joint profile.
 - 3. Tool type E sealant to a smooth flat profile flush with adjacent concrete slab surfaces.
 - 4. Do not use tooling agents, such as soap, water, or other material, unless Architect, Consultant, and Sealant Manufacturer approve of one of the Sealant manufacturer's pre-approved methods for tooling with approved substances.
- E. Provide compatible sealant system between dissimilar assemblies and adjacent construction
- F. Dual-sealant weather-seal joints as indicated in the Drawings. Back weather seal must be fully cured prior to installation of the exterior seal.

3.4 CLEANUP

- A. Clean adjacent surfaces free of excess sealant as the work progresses. Use cleaning agents recommended by the sealant manufacturer.
- B. Upon completion, remove and dispose of masking.

3.5 PROTECTION

- A. Protect sealant in joints subject to dirt, moisture, and traffic during the sealant curing process. Protection shall be able to resist traffic while remaining securely in position.

3.6 SCHEDULE

- A. Type S:
 - 1. Provide at all exterior joints, unless specified otherwise; colors as selected from manufacturer's complete line for each type of sealant.
 - 2. At contact with new roofing membrane, use Roofing Manufacturer's Proprietary Polyurethane Sealant.
- B. Type P: Provide at all vertical joints in masonry, unless specified otherwise; custom colors to match the Architect's samples.
- C. Type PT: Provide at all exterior and interior horizontal joints subject to traffic and abrasion, unless specified otherwise; standard colors as selected from manufacturer's complete line of pre-formulated colors.
- D. Type PTNS: Provide at all expansion joints in tile; custom colors to match grout samples submitted by the tile installer.
- E. Type A: Provide at all interior joints, unless specified otherwise.
- F. Type SM: Provide at joints around countertops in kitchen, coffee, or wet areas.
- G. Type E: Provide at all concrete slab cracks less than 1/16 inch wide exposed in finish work.
- H. Type B: Provide at concealed lapping or bedding conditions, or elsewhere as indicated.

3.7 FIELD QUALITY CONTROL

- A. Contractor Responsibilities:
 - 1. The Contractor shall be responsible for the quality control of all of their own work, as well as quality of work performed by Sub-contractors working under them per this Specification and related Specification(s). The Contractor's Subcontractor shall employ workers that are trained and approved by the material manufacturer to install the joint sealant systems.
 - 2. The Contractor shall notify the Architect of any conflicts that may result in a deviation from the Manufacturer's Specifications, industry standards, code compliance, job safety, or function as a result of the Project's Scope of Work, Specifications, and/or Project Drawings.
 - 3. If the Architect, the Owner's Project Manager, or Manufacturer determine that the quality of the work does not confirm to the Specifications, Project Drawings, and/or Manufacturer's requirements, as well as industry standards, the Contractor must correct all deficiencies and advise the Architect, Consultant, and Manufacturer of their proposed corrective actions.

4. The Contractor must demonstrate the ability to perform the work in a quality, timely manner with minimal noise and disruption to or impact on Faculty, Students, the Public, and the Property.
- B. Testing and Inspecting: Owner may engage special inspectors and/or Envelope Monitor to perform tests and inspections and prepare reports. Such observation shall not relieve the Contractor of responsibility for proper execution, thorough completion, and quality control of their work. Allow inspectors access to scaffolding and work areas as needed to perform tests, monitoring, and inspections. Retesting of materials and/or work that fails to comply with specified requirements shall be done at Contractor's expense.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Restoration and re-glazing of existing wood windows.
- B. Related Sections:
 - 1. 088000 - Glazing: Glass and glazing.
 - 2. 099000 – Paintings and Coatings: Shop and site finishing wood surfaces.
- C. Drawings, the provisions of the Agreement, the General Conditions, and Division 1 specification sections apply to all work of this Section.
- D. Substitutions: Substitute products will be considered only under the terms and conditions of Section 016310.

1.2 QUALITY ASSURANCE

- A. Manufacturer: Company specializing in wood window restoration with five years experience.
- B. Work Conditions: To the greatest extent possible, window sashes shall be repaired and reglazed in a shop environment under controlled conditions.

1.3 MOCKUP

- A. Prepare mock-up under provisions of Section 014500.
- B. Provide one mock-up of restored and re-glazed window unit installed in place.
- C. Mock-up will be reviewed to determine acceptability of restored window unit. Approved mock-up may become part of the finished Work.

1.4 SUBMITTALS

- A. Submit product data and samples under provisions of Section 013300.
- B. Provide product data for wood treatment products.
- C. Provide 3 samples of wood stops, finished.

1.5 GUARANTEE

- A. Provide two-year fabricator's guarantee under provisions of Section 017700.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Wood: Clear white pine, Alaskan yellow cedar, or Douglas fir species, preservative treated of type suitable for transparent or opaque finish.
- B. Glass: GL-2 in accordance with Section 088000.
- C. Liquid Resin Hardener: Epoxy resin type as follows:
 - 1. Rockler "Rotfix Wood Restoration and Repair".
 - 2. Rotdoctor "CPES Clear Penetrating Epoxy Sealer."
- D. Wood Repair Putty: Epoxy resin type, as follows:
 - 1. Rockler "Sculpwood Moldable Epoxy Putty."
 - 2. Rotdoctor "Fill-It Epoxy Filler."
- E. Weather-stripping: Wool pile or vinyl type, as applicable for retrofitting.

2.2 HARDWARE

- A. Where window hardware is in need of replacement, provide hardware matching existing.

2.3 FINISHES

- A. Exterior Surfaces: Opaque as specified in Section 099000.
- B. Interior Surfaces: Opaque as specified in Section 099000.
- C. Operators: Match existing.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Inspect existing window sashes, frames, and sills for deterioration. Identify components requiring removal.
- B. Identify wood trim or sill sections requiring repair or replacement.

3.2 PREPARATION

- A. Remove existing wood sashes indicated to be retrofitted and transport to shop. Mark each sash for proper re-location following shop work.
- B. Remove wood trim or sill units identified as requiring repair or replacement. Remove original sealants from all surfaces. Remove interior trim as necessary to enable removal of sash units.

3.3 REPAIR AND RETROFITTING

- A. Remove existing glazing stops and glass. Remove glazing compounds from wood surfaces.
- B. Liquid Resin Hardener:
 - 1. Comply with hardener manufacturer's instructions.
 - 2. Remove as much rotted wood from wood components as can be easily removed with hand tools.
 - 3. Dry areas for repair with compressed air or place in shop environment with air drying equipment.
 - 4. Generously apply liquid resin hardener with brush or syringe until wood accepts no more hardener. Allow to fully cure.
 - 5. Coat all surfaces that will be in contact with new glazing units whether visibly rotted or not.
 - 6. Take care to avoid coating surfaces which will be exposed in the finished work.
- C. Wood Repair Putty:
 - 1. Comply with putty manufacturer's instructions.
 - 2. Once the liquid resin hardener has fully cured, fill cavities in wood with repair putty.
 - 3. Begin by smearing a thin film against the surface, or if filling a cavity, working a small amount into all the holes and crevices with a putty knife, or the tip of the caulking tube.
 - 4. For very large areas where sagging may occur, two or more applications may be necessary.
 - 5. Uncured Fill-It filler may be smoothed by placing a thin film of polyethylene over the material and using a squeegee or similar tool to smooth-out through the plastic.
- D. Install new glazing units in accordance with Section 088000.
- E. Fabricate new wood window stops to match profile of original stops.
- F. Install new wood window stops once glazing is secure.

3.4 INSTALLATION

- A. Install new or repaired wood window trim and sill pieces. Install new wood sections in single whole lengths. Finger-jointed units are not permitted.
- B. Install repaired and retrofitted window sashes.
- C. Maintain alignment with adjacent work. Secure assembly to frame openings without distortion or stress.
- D. Install sealant and related backing materials at exterior and interior of installed assembly as required to match original installation and as specified in Section 079000.
- E. Re-install perimeter trim and closures.

- F. Replace sash hardware. Close and latch operating sash and verify proper hardware operation.

3.5 TOLERANCES

- A. Plumb and Level: Plus or minus 1/8 inch from true measurement.
- B. Longitudinal or Diagonal Warp: Plus or minus 1/8 inch from 10 foot straight edge.

3.6 CLEANING

- A. Clean window frames and glass.
- B. Remove labels and visible markings.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Glass and glazing for restored wood windows.
- B. Related Sections:
 - 1. 080152 - Wood Window Restoration: Requirements for windows with GL-2 and GL-3.
 - 2. 085213 - Aluminum-Clad Wood Windows: Requirements for glass and glazing (GL-1) in new aluminum clad windows. (Under separate Certificate of Approval)
- C. Drawings, the provisions of the Agreement, the General Conditions, and Division 1 specification sections apply to all work of this Section.
- D. Substitutions: Substitute products will be considered only under the terms and conditions of Section 016310.

1.2 REFERENCES

- A. American National Standard (ANSI): Z97.1 - Performance Specifications and Test Methods for Safety Glazing Materials in Buildings.
- B. American Society for Testing and Materials (ASTM):
 - 1. C1036 - Standard Specification for Flat Glass.
 - 2. C1048 - Standard Specification for Heat Treated Flat Glass, Kind HS, Kind FT (Coated and Uncoated).
- C. Glass Association of North America (GANA): Glazing Manual.
- D. National Fenestration Rating Council Inc. (NFRC).

1.3 SUBMITTALS

- A. Make submittals in accordance with Section 013300.
- B. Submittals specified in this Section may be incorporated into submittal specified in other Sections, where glass is to be provided in those Sections.
- C. Product Data: Submit product data on glass and glazing materials.
- D. Shop Drawings: Show size and thicknesses of glass, proposed "bites" in frames, sizes and locations of blocking, spacers, beads, stops, and edge treatments. Note quality, type, and strength of each light.
- E. Documentation:
 - 1. Submit coated glass manufacturer's written verification of review and approval of all glazing details and conditions, including pocket widths, edge bites and edge stresses, and glass thicknesses.
- F. Warranty: Submit draft of manufacturer's and fabricator's warranty for Architect's review.

1.4 QUALITY ASSURANCE

- A. Comply with pertinent recommendations in the GANA "Manual of Glazing."
- B. Safety Glass Standard: Comply with code requirements.]
- C. Qualifications of Glass Manufacturer: Provide glass produced by a nationally recognized manufacturer of high efficiency glass.
- D. Qualifications of Glazers: Provide personnel thoroughly trained and experienced in the skills required, and at least one person completely familiar with the referenced standards and the requirements of this Work, who shall personally direct installation of glazing materials.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Comply with applicable provisions of Section 016000.
- B. Provide cushions at edges of glass to prevent impact damage during shipment and storage.
- C. Keep vacuum cups free from foreign material that could scratch glass.

1.6 WARRANTY

- A. Submit warranties under provisions of Section 017700.
- B. Reflective Coating Warranty: Furnish ten year warranty from the glass manufacturer agreeing to replace glass units which have defective reflective coating. Defective coating is defined as peeling, discoloration, or other forms of deterioration to the reflective coating.

PART 2 - PRODUCTS

2.1 GLASS

- A. Furnish the following glass in combinations as scheduled at the end of this Section:
 - 1. Clear Glass: ASTM C1036, Type I, class 1 (clear), quality Q3 glazing select.

2.2 ACCESSORIES

- A. Setting Blocks: Neoprene; 70-90 Shore A durometer hardness; 4 inches long x 1/4 high x width as required for application indicated.
- B. Weather Glazing Sealant: Compatible with insulating glass seal. [Refer to Section 084400 for structural sealant requirements.]

2.3 FABRICATION

- A. Tempered and Heat Strengthened Glass:
 - 1. Tempered Glass: ASTM C1048, FT; glass which has been heat treated to strengthen glass in bending to not less than 4 times the annealed strength; certified safety glass in accordance with ANSI Z97.1.
 - 2. Heat Strengthened Glass: ASTM C1048, HS ; glass which has been heat treated to strengthen glass in bending to not less than 2 times annealed strength.
 - 3. Fabricate tempered and heat strengthened glass units so that principle distortion will be in the horizontal direction in the finished installation.
 - 4. Unless otherwise approved by the building official, provide manufacturer's label on each light, indicating type and thickness of glass.
 - 5. Comply with SBC requirements for identification and labeling of safety-glazing materials in hazardous locations subject to human impact loads.
 - 6. Fabrication Process: Horizontal (roller-hearth) process with roll-wave distortion parallel to bottom edge of glass as installed, unless otherwise indicated.
- B. Laminated Glass (PVB):
 - 1. Two layers of glass as scheduled with a minimum .030 inch thick vinyl interlayer.
 - 2. Film:
 - a. Manufacturer: Solutia Inc. (St. Louis, MO; 877-674-1233; 314-674-1000).
 - b. Type: Clear polyvinyl butyral sheets, uniform in clarity, specifically manufactured for use in fabrication of laminated glass sheets, ultraviolet stabilized, uniform thickness as specified.
- C. Vacuum Insulated Glass (GL-2):
 - 1. Manufacturer: Luxwall (Ypsilanti, MI; 888.229.1039).
 - 2. Product: "Enthermal R-13"
 - 3. Vacuum Ports:
 - a. Color: Silver.
 - b. Location: Lower right of each pane when viewed from the interior and in same location at each pane. All ports across all panes and windows shall be aligned.

- D. Low E Coatings: High performance type; applied by using sputtered deposition technology.
 - 1. Basis of Design: Cardinal Glass (Eden Prairie, MN; 952-229-2600)
 - 2. At GL-1: As specified in Section 085213 (Under separate Certificate of Approval)
 - 3. At GL-2: Cardinal LoE 270 (surface #2)
 - 4. At GL-3: Cardinal LoE 270 (surface #2)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Prior to starting work, carefully inspect installed work of other trades and verify that such work is complete to the point where work of this section may properly commence. Notify the Architect in writing of conditions detrimental to the proper and timely completion of the work.
- B. Do not begin installation until all unsatisfactory conditions are resolved. Beginning work constitutes acceptance of site conditions and responsibility for defective installation caused by prior observable conditions.
- C. Verify surfaces of glazing channels or recesses are clean, free of obstructions, and ready for work of this Section.

3.2 PREPARATION

- A. Clean contact surfaces and wipe dry.
- B. Seal frame corner joints, and other leakage points with sealant. At insulating glass units the sealant shall be compatible with the seal of the unit. Do not plug weep holes.
- C. Prime surfaces scheduled to receive sealant, unless otherwise recommended by the sealant manufacturer.

3.3 INSTALLATION

- A. Setting Blocks: Place setting blocks in frames for support of glass. Place at quarter points unless approved otherwise.
- B. Set glass tightly in position with proper clearances in accordance with the referenced standards.
- C. Perimeter glass clearances within setting frame shall be in accordance with GANA recommendations, and as required by the glass manufacturer to provide for wind, earthquake drift, and thermal expansion.
- D. Adjust glazing materials to form a uniform sight line.

3.4 CLEANING

- A. Clean excess glazing materials from adjacent finished surfaces.
- B. Remove labels after work is completed.

3.5 GLASS TYPE SCHEDULE

- A. The following are the glass types as indicated on the Drawings:
 - 1. GL-1: As specified in Section 085213 (Under separate Certificate of Approval)
 - 2. GL-2: Vacuum Insulated Glazing with Low-E coating as specified on #2 surface.
 - 3. GL-3: Minimum ¼ inch thick laminated glass with Low-E Coating as specified on #2 surface.

END OF SECTION



DOWSIL™ 790 Silicone Building Sealant

Ultra-low-modulus sealant for new and remedial construction joint sealing applications

Features & Benefits

- Excellent performance even in building joints that experience extreme movement.
- Suitable for new and remedial construction.
- Extension/compression capability of +100/-50 percent.
- Excellent weathering properties and resistance to sunlight, rain, snow, and temperature extremes.
- Excellent unprimed adhesion to masonry, concrete substrates.
- Easy application over a wide temperature range.

Composition

- Ultra-low-modulus, one-part, neutral-cure silicone sealant.

Applications

- DOWSIL™ 790 Silicone Building Sealant offers outstanding unprimed adhesion to masonry and is particularly effective for sealing expansion and control joints, precast concrete panel joints, Exterior Insulation and Finish Systems (EIFS) joints, curtainwall joints, mullion joints, stone pavers, and many other construction joints. When used in accordance with Dow application and testing recommendations, the sealant forms a durable, flexible, watertight bond with many common building materials, including combinations of stone, concrete, masonry, granite, marble, aluminum, painted substrates, and glass.

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Test ¹	Property	Unit	Result
As Supplied			
ASTM C 679	Tack-free Time, 50% RH	hours	1
	Curing Time, 50% RH, at 25°C (77°F), 3/8" Depth	days	7–14
	Full Adhesion, Cured Joint	days	14–21
ASTM D 2202	Flow, Sag, or Slump		None
CTM 98	Working Time	minutes	10–20

1. ASTM: American Society for Testing and Materials.
 CTMs (Corporate Test Methods) correspond to standard ASTM tests in most instances. Copies of CTMs are available upon request.

Typical Properties (Cont.)

Test	Property	Unit	Result
EPA Method 24	VOC Content ² , Maximum	g/L	23
As Cured – After 7 Days at 25°C (77°F) and 50% RH			
ASTM C 661	Durometer Hardness, Shore A	points	15
ASTM D 412	Tensile Strength, Maximum	psi (kg/mm ²)	100 (0.070)
ASTM C 794	Peel Strength	lb/in (kg/cm)	25 (4.46)
ASTM C 1135	Tensile		
	At 25% Extension	psi (kg/mm ²)	15 (0.010)
	At 50% Extension	psi (kg/mm ²)	20 (1.015)
ASTM C 719	Joint Movement Capabilities		
	Extension/Compression	%	+100/-50
ASTM C 1248	Staining, Various Substrates		None

2. Based on South Coast Air Quality Management District of California. Maximum VOC is listed both inclusive and exclusive of water and exempt compounds.

Description

Suitable for new construction or remedial applications, DOWSIL™ 790 Silicone Building Sealant provides excellent performance, even in building joints that experience extreme movement. It places a low stress on the sealant/substrate bond line to minimize failures in moving joints.

DOWSIL™ 790 Silicone Building Sealant is available in 15 colors. Custom colors are available upon request.

Approvals/ Specifications

This sealant meets or exceeds the requirements of:

- ASTM Specification C 920, Type S, Grade NS, Class 100/50, Use T, NT, M, G, A, and O
- Many UL wall/floor fire designs, some without a protective cover plate (see www.ul.com for current listing)
- Fire Tests of Building Construction and Materials, UL 263 (ASTM E 119)

Data from an independent test lab and Sealant, Waterproofing and Restoration Institute validation are available from Dow and the SWR Institute. A complete product specification sheet for this product is available upon request.

How to Use

Consult the current version of the Dow Americas Technical Manual, Form No. 62-1112, for detailed information on application methods, joint design, field testing, and warranty requirements when using Dow sealants. Please contact your local sales application engineer for specific advice.

How to Use (Cont.)



Handling Precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Usable Life and Storage

When stored at or below 32°C (90°F), DOWSIL™ 790 Silicone Building Sealant has a shelf life of 12 months from date of manufacture. Refer to product packaging for “Use By” date.

Packaging Information

DOWSIL™ 790 Silicone Building Sealant is packaged in 10.3 fl oz (305 mL) disposable cartridges that fit ordinary caulking guns, 20 fl oz (590 mL) E-Z Pak foil sausages that fit caulking guns, and also in 2.0 and 4.5 gal (7.5 and 17 L) bulk pails. It can be dispensed by many air-operated guns and most types of bulk dispensing equipment.

Limitations

DOWSIL™ 790 Silicone Building Sealant should not be applied:

- In structural applications.
- Below grade or to materials that outgas, which can cause bubbling in curing sealant.
- On brass or copper or other similar material that can be corroded.
- To surfaces that are continuously immersed in water.
- For use as an interior penetration firestop sealing system.
- To building materials that bleed oils, plasticizers, or solvents – materials such as impregnated wood, oil based caulks, green or partially vulcanized rubber gaskets, or tapes or bituminous below-grade waterproofing and asphalt-impregnated fiberboard.
- In totally confined spaces because the sealant requires atmospheric moisture for cure.
- To surfaces that will be painted after application. The paint film will not stretch with the extension of the sealant and may crack and peel and most likely will not adhere to the sealant.
- To surfaces in direct or indirect contact with food.
- To wet or frost-laden surfaces.
- In applications where solvents or primers are not fully dried prior to sealant application. Uncured sealant is very sensitive to many solvents, primers, and cleaning agents; these may cause the sealant to remain uncured or tacky.

Limitations (Cont.)

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Health and Environmental Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, dow.com or consult your local Dow representative.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

dow.com

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Jahn M100 Terra Cotta & Brick

This single-component, cementitious, mineral based mortar is designed for the restoration of terra cotta and brick surfaces. Jahn M100 is completely vapor permeable and contains no latex or acrylic bonding agents or additives. M100 is specifically engineered for compatibility with oven-fired materials to provide a permanent repair, which both enhances and protects the original substrate. Only Certified Installers may purchase Jahn M100 Terra Cotta Repair Mortar. To restore the original glaze and keep water from entering the substrate through the new repair, use Terra Cotta Coating System to paint the repair; call Cathedral Stone at 800-684-0901 for more information about our complete Terra Cotta Coating System.

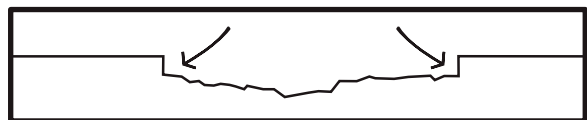
Features and Benefits

- **Single-Component:** Mixes with water only, improving quality control and consistency of application
- **Compatible Formulations:** Compatibility of physical properties ensures that the mortar and natural substrate react to the environment in the same way.
- **Contains No Latex or Acrylic Bonding Agents:** It protects the substrate by allowing salts, water vapor, and liquid water to reach the surface, preventing failure due to salt expansion or freeze/thaw cycles.
- **Tenacious Adhesion:** Strong bonding capabilities without relying on synthetic bonding agents.
- **Factory Controlled:** No field chemistry resulting in product variation.
- **Custom Colored Upon Request:** Closely matches existing masonry. Choose from Standard or Custom Colors.

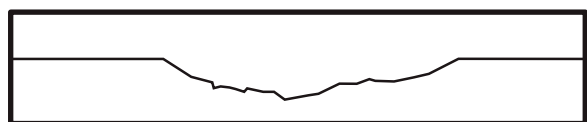
Application Procedures

Surface Preparation

Surfaces to receive M100 must be sound and free of all dust, dirt, grease, laitance and/or any other coating or foreign substance which may prevent proper adhesion. Remove all loose and deteriorated masonry from the repair area using manual or pneumatic cutting tools. Areas to be repaired should be cut to provide a minimum of 1/2" depth. Do not install repairs that have a feathered edge (see diagram below); incorrect installation will cause repairs to fail prematurely. Wash the prepared surface with clean water and a bristle brush to remove dust from the pores.



Correct (Square Cut) Surface Preparation



Incorrect (Feathered Edge) Surface Preparation

Exposed Ferrous Metals

In the event that ferrous metal reinforcement (re-bar, threaded rod, etc.) is exposed within the repair area or repairs are adjacent to ferrous metal jambs, lintels, anchoring systems etc., a rust inhibitor must be applied to all properly prepared ferrous metal surfaces before repairs are made.

Mixing

The mixing ratio is approximately 4 to 4 1/2 parts powder to 1 part water by volume, depending on temperature and humidity. More water may be required as ambient temperature rises. The mixing may be done by hand, stirring until the mortar is thoroughly mixed. The mortar should be the consistency of stiff putty, without lumps. M100 may also be mixed using a slow speed drill (400 -600 rpm) equipped with a Jiffler-type mixing paddle. For best results, add the powder to the water slowly. The working time will vary, depending upon wind, temperature, and humidity. Using excessive water in the mixture may affect the color of the repair.

Application

Moisten the substrate using clean water. Jahn Mortar should be applied to a glistening wet surface on vertical applications and a well-dampened surface (with no pooling water) on horizontal applications. If the surface is allowed to dry out before applying M100, this step must be repeated. This is very important.

The next step of the application is what CSP has termed the "Peanut Butter" coat. The Jahn mortar should be mixed with water to the consistency of wet putty. Apply the "Peanut Butter" coat to the glistening wet substrate approximately 1/8 inch thick. Important - To achieve proper bond, the "Peanut Butter" coat must not dry out prior to application of Jahn Mortar!

Since the working consistency of M100 is somewhat wet, large repairs may require successive applications in order to avoid material slump. If this is necessary, be sure to remove the shiny cement skin that sometimes forms on the surface by scraping away 1/16" of material. This will open the pores before an additional layer of material is applied. Dampen surface and continue application.

Build the material out beyond the surface of the original stone. After a period of time, the surface will be DTT (Dry To Touch/Tool). The best way to determine that the surface is DTT is to screed a small portion and turn the screeding tool over; if the screeded material easily falls off of the tool, the surface is DTT and ready. If the material sticks to the screeding tool, it is not ready. The waiting period for scraping should be determined on the job, due to the effects of heat, humidity, and wind on the final color. This is characteristic of all mortars, and should be determined through samples applied on site. In hot weather the darker colors may require scraping within a short time, while in cold weather the wait time may be several hours.

When the surface is DTT, scrape away excess mortar until the desired profile is reached.

Use Cathedral Stone's Liquid Silicate and Terra Cotta Glaze to replicate the glazed finish. You can replicate the glazed finish by applying additional coats of Terra Cotta Glaze until the desired finish is achieved. CSP TC Glaze can be applied once repairs are completely cured (28 days).

If anchor pins will be used, CSP recommends threaded stainless steel anchors set with Jahn M80 Anchor Setting Mortar.

If anchoring through mesh, apply a layer of mortar and then press the stainless steel mesh into the initial layer of mortar. Once the stainless steel is in place, install anchor pins and a final layer of mortar over the mesh. Anchor pins must extend through the mesh and into the outer layer of mortar. Preferably, the anchoring pin should be bent at 90 degrees, with the bent end on the surface-facing side of the mesh.

Color & Finish (optional)

Cathedral Stone's Potassium Silicate Coating or Stain is recommended if a color and finish is desired.

Water/Moisture Protection

To keep water from entering the substrate through the new repair, use CSP R-97 Water Repellent.

Continued...

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Jahn M100 Terra Cotta & Brick

Continued...

Curing

Traditional Cure

Periodically mist mortar repairs using clean water for at least a 72-hour period. The timing for initial water misting will vary with ambient conditions. Hot, dry conditions may require misting within 30 to 60 minutes. Cooler, damp conditions may require waiting several hours before beginning the curing process. Mist several times a day. Should access to the repairs be impossible over a period of time, temporarily cover repairs with plastic. The application of plastic, however, does not remove the need for normal curing techniques.

Self-Cure

No curing is necessary when masonry surface temperature is 85°F or lower. When working on surface temperatures above 85°F, follow the Traditional Cure procedures outlined above.

Clean Up

Remove uncured mortar from the perimeter of the repair before it dries using clean water and a closed cell sponge. Repeat several times with clean water to prevent a halo effect (staining of adjacent masonry). Cured mortar may only be removed chemically or mechanically.

Safety Requirements

It is recommended that safety goggles, gloves, and a dust mask equipped with P-2 filters (or equivalent) be worn for protection while mixing.

Limitations

Do not apply Jahn Mortar to a frozen or exceedingly hot substrate. The applied mortar must be protected from extreme heat, freezing, excessive wind, direct sunlight, and rain. Ambient temperature range should be 40° F to 90° F with low to average humidity.

Do not add bonding agents to Jahn Mortar or use them as surface preparation materials.

Minimum thickness of mortar application is ½"

Packaging and Coverage

A 5-gallon plastic pail contains approx. 44 lb. of material. This will cover 0.5 cubic ft. (12 sq. ft. at 1/2" thickness).

Storage And Shelf Life

Store material in a dry area away from direct sunlight. Ambient storage conditions should be in the range of 40°F to 90°F with low to average humidity. Average shelf life is 2 years in original, unopened packaging.

Technical Data

Jahn M100

LIQUID/PLASTIC PHASE	
Ratio of water/dry material	3 fl. oz. to 4.5 lb.
Volume per pound mixed mortar	12.0 fl. oz./lb
HARDENED PHASE	
Compressive strength	3000 to 3800 psi
Tensile bending strength	619 psi
Tensile strength	150 psi
Linear coefficient of thermal expansion	0.1E-06 to 0.3E-06 in inches °F
Modulus of elasticity	218 to 1540 ksi
Open porosity (%)	4.2 to 16.5
Specific gravity	1.3

Warning

Not for internal consumption. Keep out of reach of children and animals. Consult Material Safety Data Sheet (MSDS) for specific information.

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Jahn M120 Marble Repair Mortar

This single-component, cementitious, mineral based mortar is designed for the restoration of marble. Jahn M120 is completely vapor permeable and contains no latex or acrylic bonding agents or additives. M120 is formulated for compatibility with the marble substrate and is available in Standard, Premium, and Custom Colors. M120 provides a permanent solution, which both restores and protects the beauty of the marble. (Only Certified Installers may purchase Jahn M120 Marble Repair Mortar.)

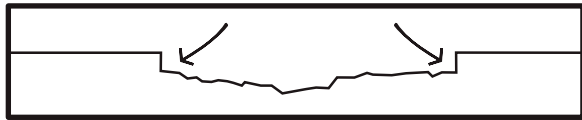
Features and Benefits

- **Single-Component:** Mixes with water only, improving quality control and consistency of application.
- **Compatible Formulations:** Compatibility of physical properties ensures that the mortar and natural substrate react to the environment in the same way.
- **Contains No Latex or Acrylic Bonding Agents:** It protects the substrate by allowing salts, water vapor, and liquid water to reach the surface, preventing failure due to salt expansion or freeze/thaw cycles.
- **Tenacious Adhesion:** Strong bonding capabilities without relying on synthetic bonding agents.
- **Factory Controlled: Custom Colored Upon Request:** Closely matches existing masonry. Choose from Standard or Custom Colors. No field chemistry resulting in product variation.
- **Custom Colored Upon Request:** Closely matches existing masonry. Choose from Standard or Custom Colors.
- **Certified Installers:** Only installers with certification from Cathedral Stone Products can purchase Jahn M120 Marble Repair Mortar.

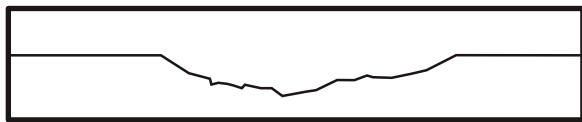
Application Procedures

Surface Preparation

Surfaces to receive M120 must be sound and free of all dust, dirt, grease, laitance and/or any other coating or foreign substance which may prevent proper adhesion. Remove all loose and deteriorated masonry from the repair area using manual or pneumatic cutting tools. The area to be repaired should be cut to provide a minimum of 1/2" depth. Do not install repairs that have a feathered edge (see diagram in the next column), incorrect installation will cause repairs to fail prematurely. Wash the prepared surface with clean water and a bristle brush to remove dust from the pores.



Correct (Square Cut) Surface Preparation



Incorrect (Feathered Edge) Surface Preparation

Exposed Ferrous Metas

Is In the event that ferrous metal reinforcement (re-bar, threaded rod, etc.) is exposed within the repair area or repairs are adjacent to ferrous metal jambs, lintels, anchoring systems etc., a rust inhibitor must be applied to all properly prepared ferrous metal surfaces before repairs are made.

Mixing

The mixing ratio is approximately 4 1/2 to 5 parts powder to 1 part water by volume (or until material is easy to spread), depending on temperature and humidity. More water may be required as ambient temperature rises. The mixing may be done by hand, stirring until the mortar is thoroughly mixed. The mortar should be the consistency of damp sand. M120 may also be mixed using a slow speed drill (400 - 600 rpm) equipped with a Jiffler-type mixing paddle. For best results, add the powder to the water slowly. The

working time will vary, depending upon wind, temperature, and humidity. Using excessive water in the mixture may affect the color of the repair.

Application

Moisten the substrate using clean water. Jahn Mortar should be applied to a glistening wet surface on vertical applications and a well-dampened surface (with no pooling water) on horizontal applications. If the surface is allowed to dry out before applying M120, this step must be repeated. This is very important.

The next step of the application is what CSP has termed the "Peanut Butter" coat. The Jahn mortar should be mixed with water to the consistency of wet putty. Apply the "Peanut Butter" coat to the glistening wet substrate approximately 1/8 inch thick. Important –To achieve proper bond, the "Peanut Butter" coat must not dry out prior to application of Jahn Mortar!

Since the working consistency of M120 is putty-like. Large repairs may require successive applications in order to avoid material slump. If this is necessary, be sure to remove the cement skin that sometimes forms on the surface by scraping away 1/16" of material. This will open the pores before an additional layer of material is applied.

Build the material out beyond the surface of the original stone. After a period of time, the surface will be DTT (Dry To Touch/Tool). The best way to determine that the surface is DTT is to screed a small portion and turn the screeding tool over; if the screeded material easily falls off of the tool, the surface is DTT and ready. If the material sticks to the screeding tool, it is not ready. The waiting period for scraping should be determined on the job, due to the effects of heat, humidity, and wind on the final color.

This is characteristic of all mortars, and should be determined through samples applied on site. In hot weather the darker colors may require scraping within a short time, while in cold weather the wait time may be several hours.

When the surface is DTT, scrape away excess mortar until the desired profile is reached.

If anchors will be used, CSP recommends threaded stainless steel anchors set with Jahn M80 Anchor Setting Mortar.

Curing

Traditional Cure

Periodically mist mortar repairs using clean water for at least a 72-hour period. The timing for initial water misting will vary with ambient conditions. Hot, dry conditions may require misting within 30 to 60 minutes. Cooler, damp conditions may require waiting several hours before beginning the curing process. Mist several times a day. Should access to the repairs be impossible over a period of time, temporarily cover repairs with plastic. The application of plastic, however, does not remove the need for normal curing techniques.

Self-Cure

No curing is necessary when masonry surface temperature is 85°F or lower. When working on surface temperatures above 85°F, follow the Traditional Cure procedures outlined above.

Clean Up

Remove uncured mortar from the perimeter of the repair before it dries using clean water and a rubber sponge. Repeat several times with clean water to prevent a halo effect (staining of adjacent masonry). Cured mortar may only be removed chemically or mechanically.

Continued...

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Jahn M120 Marble Repair Mortar

Continued...

Color & Veining

CSP Potassium Silicate Coating should be used if a coating is required. If a stain is preferred, combine CSP Potassium Silicate Coating with CSP Liquid Silicate. Use CSP Veining Mortar to create faux marble veining.

Water Repellent Recommendation

A final application of R-97 Water Repellent is recommended to preserve marble.

Safety Requirements

It is recommended that safety goggles, gloves, and a dust mask equipped with P-2 filters (or equivalent) be worn for protection while mixing.

Limitations

- Do not apply Jahn Mortar to a frozen or exceedingly hot substrate. The applied mortar must be protected from extreme heat, freezing, excessive wind, direct sunlight, and rain. Ambient temperature range should be 40° F to 90° F with low to average humidity.
- Do not add bonding agents to Jahn Mortar or use them as surface preparation materials.
- Minimum thickness of mortar application is ½ "

Packaging and Coverage

A 5-gallon plastic pail contains approximately 44 lb. of material. This will cover 0.5 cubic feet (12 square feet at 1/2" thickness).

Storage and Shelf Life

Store material in a dry area away from direct sunlight. Ambient storage conditions should be in the range of 40°F to 90°F with low to average humidity. Average shelf life is 2 years in original, unopened packaging.

Technical Data

Jahn M120 – Marble Repair Mortar

LIQUID/ PLASTIC PHASE	
Ratio of water/dry material	3 fl. oz. to 4.5 lb.
Volume per pound mixed mortar	12.0 fl. oz./lb
HARDENED PHASE	
Compressive strength	4700 to 5000 psi
Tensile bending strength	650 psi
Tensile strength	150 psi
Linear coefficient of thermal expansion	0.10E-06 to 0.2E-06 in inches °F
Modulus of elasticity	1200 to 1540 ksi
Open porosity (%)	4.2 to 16.5
Specific gravity	1.3

Warning

Not for internal consumption. Keep out of reach of children and animals. Consult Material Safety Data Sheet (MSDS) for specific information.

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