



ADDENDUM

Public Building Commission of Chicago | Richard J. Daley Center | 50 West Washington Street, Room 200 | Chicago, Illinois 60602 | (312) 744-3090 | pbccchicago.com

ADDENDUM NO.: 03
PROJECT NAME: Legler Regional Library Renovations
PROJECT NO.: 08310
CONTRACT NO.: C1597
DATE OF ISSUE: December 6, 2019

NOTICE OF CHANGES, MODIFICATIONS, OR CLARIFICATIONS TO CONTRACT DOCUMENTS

The following changes, modifications, or clarifications are hereby incorporated and made an integral part of the Contract Documents. Unless clearly expressed otherwise by this Addendum, all terms and conditions defined in the original Contract Documents shall continue in full force and effect and shall have the same meaning in this Addendum. Issued Addenda represent responses/clarifications to various inquiries. Contractors shall be responsible for including all associated labor/material costs in its bid. Drawings/specifications corresponding to inquiry responses will be issued with the Issue for Construction Documents, upon issuance of building permit.

- ITEM NO. 1: CHANGE TO KEY DATES**
Change 1 Bid Due Date and Time has been **RESCHEDULED** to Thursday, December 12, 2019 at 11:00a.m.
- ITEM NO. 2: REVISIONS TO BOOK 1 – PBC INSTRUCTIONS TO BIDDERS**
None.
- ITEM NO. 3: REVISIONS TO BOOK 2 – PBC STANDARD TERMS AND CONDITIONS**
None.
- ITEM NO. 4: REVISIONS TO BOOK 3 – TECHNICAL SPECIFICATIONS**
- Change 1** **Book 3 – Volume 1 – REVISED** Specification Section 000110 – TABLE OF CONTENTS – Updated to denote revised specifications
 - Change 2** **Book 3 - Volume 1 - REVISED** 003126.10 - ATTACHMENT A – ASBESTOS-CONTAINING MATERIAL, LEAD-BASED PAINT AND HAZARDOUS MATERAIL SURVEY SUMMARY REPORT: Added asbestos-containing wire jacketing insulation to executive summary and summary table
 - Change 3** **Book 3 - Volume 1 - REVISED** 003126.10 - ATTACHMENT A – ASBESTOS-CONTAINING MATERIAL, LEAD-BASED PAINT AND HAZARDOUS MATERAIL SURVEY SUMMARY REPORT: Added fire escape, roof ladder, and site fence to tested materials for lead-based paint in executive summary and summary table
 - Change 4** **Book 3 - Volume 1 - REVISED** 003126.10 - ATTACHMENT A – ASBESTOS-CONTAINING MATERIAL, LEAD-BASED PAINT AND HAZARDOUS MATERAIL SURVEY SUMMARY REPORT: Added laboratory results and chains of custody to Appendix C
 - Change 5** **Book 3 - Volume 1 - REVISED** 080152.61 - WOOD WINDOW AND DOOR REPAIRS: Revised specifications to include existing wood door restoration.
 - Change 6** **Book 3 - Volume 1 - REVISED** 080152.61 - WOOD WINDOW AND DOOR REPAIRS: Revised specifications to include re-glazing of existing Insulated Glass Units (IGU).
 - Change 7** **Book 3 - Volume 1 - ADDED** Specification Section 230130 - HVAC AIR-DISTRIBUTION SYSTEM CLEANING
 - Change 8** **Book 3 - Volume 1 – ADDED** Specification Section 232500 - HVAC WATER TREATMENT

ITEM NO. 5:**REVISIONS TO DRAWINGS**

- Change 1** **REVISED** Drawing No LBP-003, LEAD BASED PAINT MITIGATION EXTERIOR FIRE ESCAPE AND LADDER: Clarification of keynotes that both Fire Escape AND Ladder are part of lead mitigation area
- Change 2** **REVISED** Drawing No A-101, FIRST LEVEL AND MEZZANINE LEVEL FLOOR PLAN: Added Keynote 09-P5 to locations of new fin tube along East wall of Book Stack Area [113] and Wellness Room [126]
- Change 3** **REVISED** Drawing No A-101, FIRST LEVEL AND MEZZANINE LEVEL FLOOR PLAN: Revised Keynote 09-T1 to include: "OR EXPOSED MECHANICAL / PLUMBING LINES"
- Change 4** **REVISED** Drawing No A-101, FIRST LEVEL AND MEZZANINE LEVEL FLOOR PLAN: Added Keynote 09-T1 to Lobby [103]; Study Room [105]; Study Room [106]; Adult Reading Room [107]; Conference Room [108]; Children's Reading Room [119]; STAIR [123]; & STAIR [124]
- Change 5** **REVISED** Drawing No A-101, FIRST LEVEL AND MEZZANINE LEVEL FLOOR PLAN: Added Keynote 09-T2 to South-West corner of Adult / Reference Reading Room [107]
- Change 6** **REVISED** Drawing No A-101, FIRST LEVEL AND MEZZANINE LEVEL FLOOR PLAN: Revised Keynote 09-L3 & 09-L4 to point to railings, light post, and fence at front entrance.
- Change 7** **REVISED** Drawing No A-102, SECOND LEVEL FLOOR PLAN: Revised Keynote 09-T1 to include: "OR EXPOSED MECHANICAL / PLUMBING LINES"
- Change 8** **REVISED** Drawing No A-102, SECOND LEVEL FLOOR PLAN: Added Keynote 09-T1 to Lobby [201]; YOUmedia [206]; Teens Staff Room [208]; Teen Staff Head [208A]; & Computer Lab [227]
- Change 9** **REVISED** Drawing No A-201 – EXTERIOR ELEVATIONS: Added keynote 08-M1 for Contractor to provide mockups of wood door and wood window at indicated locations on elevation.
- Change 10** **REVISED** Drawing No A-601, DOOR SCHEDULE AND DETAILS: Added Note N to Existing Window and Door Repair Notes to refer to detail E3/A-622 for Typical Insulated Glass Unit (IGU) glazing putty and sealant replacement.
- Change 11** **REVISED** Drawing No A-621, WINDOW SCHEDULE AND DETAILS: Added Note N to Existing Window and Door Repair Notes to refer to detail E3/A-622 for Typical Insulated Glass Unit (IGU) glazing putty and sealant replacement.
- Change 12** **REVISED** Drawing No A-622, WINDOW ELEVATIONS AND DETAILS: Added Detail E3/A-622, TYP INSULATED GLASS UNIT (IGU) DETAIL
- Change 13** **REVISED** Drawing No A-650, FINISH SCHEDULE AND DETAILS: Revised VCT-02, Product Number = 0710; Color = FULL MOON.
- Change 14** **REVISED** Drawing No A-910 – SIGNAGE DETAILS: Revised Sign S15 & S18 sign specifications.
- Change 15** **REVISED** Drawing No PD-102, SECOND FLOOR - PLUMBING DEMOLITION PLAN: ADDED kitchen sink in North-West alcove of Computer Lab [227] and general note no. 2 for demolition clarification.
- Change 16** **REVISED** Drawing No P-000 – PLUMBING SYMBOLS, NOTES & ABBREVIATIONS: ADDED system abbreviation for non-potable water.
- Change 17** **REVISED** Drawing No P-100 – BASEMENT FLOOR - PLUMBING PLAN: ADDED backflow preventor and non-potable water line for glycol fill station.
- Change 18** **REVISED** Drawing No P-400 – PLUMBING RISER DIAGRAMS: ADDED backflow preventor and non-potable water line for glycol fill station.
- Change 19** **REVISED** Drawing No P-500 – PLUMBING SCHEDULES: ADDED backflow preventor schedule.
- Change 20** **REVISED** Drawing No M-000 – MECHANICAL SYMBOLS, NOTES & ABBREVIATIONS: ADDED general sheet notes 26 thru 35.
- Change 21** **REVISED** Drawing No M-100 – BASEMENT FLOOR - MECHANICAL DUCTWORK PLAN: REVISED VAV-006 ductwork in the basement area.

- Change 22 REVISED** Drawing No M-200 – BASEMENT FLOOR - MECHANICAL PIPING PLAN: ADDED Glycol fill station to serve the chilled water and hot water systems.
- Change 23 REVISED** Drawing No M-501 – MECHANICAL SCHEDULES: ADDED glycol fill station schedule.
- Change 24 REVISED** Drawing No M-601 – MECHANICAL DETAILS: ADDED Glycol fill station detail no. 6.
- Change 25 REVISED** Drawing No E-100 – BASEMENT FLOOR - ELECTRICAL POWER PLAN: ADDED Keynote 6 associated to the replacement of the existing booster pump.
- Change 26 REVISED** Drawing No E-100 – BASEMENT FLOOR - ELECTRICAL POWER PLAN: ADDED New Glycol fill station location on plan and associated Keynote 7.
- Change 27 REVISED** Drawing No E-100 – BASEMENT FLOOR - ELECTRICAL POWER PLAN: DELETED Equipment tags that are not required for existing to remain mechanical powered equipment.
- Change 28 REVISED** Drawing No E-602 – ELECTRICAL DETAILS: ADDED Smoke Evac Fan EF-5 to detail 1/E-602 Fire Alarm Riser Diagram. Associated general note 17 has also been added to detail 1/E-602.

ITEM NO. 6: REQUESTS FOR INFORMATION

RFI-1.

Question: VCT-02 is spec'd as Tarkett: IQ Granit SD 12"x12" 0723, Old Bark. However, this product is not available in that size. It's is only offered in 24"x24", will this size change be accepted? Also, this product is custom from Tarkett and will have a 14-16 week lead time. Will another color or manufacturer be acceptable?

Response: VCT-02 is permanently static-dissipative vinyl flooring for use in ESD-sensitive areas such as MDF/Server Room [024]. VCT has been revised to: 0710 - FULL MOON / LIGHT GREY. Refer to revised Finish Schedule on Drawing A-650, included in this Addendum.

RFI-2.

Question: Drawing T-602 indicates that the Intrusion Detection System is provided by 2FM. Please confirm if 2FM will be furnish and installing the complete Intrusion Detection System.

Response: Specifications 281000 - CITY OF CHICAGO SECURITY (2FM) SYSTEM SPECIFICATIONS & Detail 5/T-602 have been revised per Addendum No. 2. Contractor to provide: intrusion system panel, sensors, detectors, wiring, devices, and all associated work required for intrusion system.

RFI-3.

Question: During the site visit held yesterday, 11/26/19, it appears that there are signs of possible failure of some of the skylight panel junctions, as well as broken glass. Being that it is expected that the top and bottom sides of the glass are to be cleaned, how will this possible failure be addressed? Does 2FM have any future plans for addressing this skylight?

Response: Current skylight work scope is to remove debris and clean top and underside of skylight glass. Contractor is to notify AOR when access is available to inspect the condition of stain glass.

RFI-4.

Question: On P-102 Room 202 It shows a mop sink but in the demo pages it shows it getting demolish so will this mop sink be replaced with new or existing to remain?

Response: Existing mop sink to remain as-is in Room 202. However, there is a small kitchenette in the North-West Alcove of Computer Lab [227] that has a standard sink. Kitchenette and standard sink is to be demolished. Refer to Architectural Sheet AD-102.

RFI-5.

Question: Drawing LBP-003 designates the fire escape and ladder to be a lead based paint mitigation area. It further states that the ladder (not the fire escape) was not tested for the presence of lead based paint. Furthermore, the Asbestos-Containing Material, Lead-Based Paint and Hazardous Material Survey Summary Report does not indicate the testing of the fire escape for the presence of lead.

Please clarify whether the base bid is to include the mitigation of both the fire escape and ladder or simply scraping and painting, with any necessary testing and mitigation covered under the Owner Allowance.

Response: Keynote #1 has been revised to indicate 'Lead-Based Paint mitigation area includes fire escape and ladder'. Drawing LBP-003 has been revised and is included in this Addendum.

This Addendum includes the following attached Specifications and/or Documents:

1. Specification Section 000110 – TABLE OF CONTENTS
2. Specification Section 003126.10 - ATTACHMENT A – ASBESTOS-CONTAINING MATERIAL, LEAD-BASED PAINT AND HAZARDOUS MATERIAL SURVEY SUMMARY REPORT
3. Specification Section 080152.61 - WOOD WINDOW AND DOOR REPAIRS
4. Specification Section 230130 - HVAC AIR-DISTRIBUTION SYSTEM CLEANING
5. Specification Section 232500 - HVAC WATER TREATMENT

This Addendum includes the following attached Drawings:

1. LBP-003 – LEAD BASED PAINT MITIGATION EXTERIOR FIRE ESCAPE AND LADDER, dated 12/5/2019
2. A-101 – FIRST LEVEL AND MEZZANINE LEVEL FLOOR PLAN, dated 12/5/2019
3. A-102 – SECOND LEVEL FLOOR PLAN, dated 12/5/2019
4. A-201 – EXTERIOR ELEVATIONS, dated 12/5/2019
5. A-601 – DOOR SCHEDULE AND DETAILS, dated 12/5/2019
6. A-621 – WINDOW SCHEDULE AND DETAILS, dated 12/5/2019
7. A-622 – WINDOW ELEVATIONS AND DETAILS, dated 12/5/2019
8. A-650 – FINISH SCHEDULE AND DETAILS, dated 12/5/2019
9. A-910 – SIGNAGE DETAILS, dated 12/5/2019
10. PD-102 – SECOND FLOOR - PLUMBING DEMOLITION PLAN, dated 12/5/2019
11. P-000 – PLUMBING SYMBOLS, NOTES & ABBREVIATIONS, dated 12/5/2019
12. P-100 – BASEMENT FLOOR - PLUMBING PLAN, dated 12/5/2019
13. P-400 – PLUMBING RISER DIAGRAMS, dated 12/5/2019
14. P-500 – PLUMBING SCHEDULES, dated 12/5/2019
15. M-000 – MECHANICAL SYMBOLS, NOTES & ABBREVIATIONS, dated 12/5/2019
16. M-100 – BASEMENT FLOOR - MECHANICAL DUCTWORK PLAN, dated 12/5/2019
17. M-200 – BASEMENT FLOOR - MECHANICAL PIPING PLAN, dated 12/5/2019
18. M-501 – MECHANICAL SCHEDULES, dated 12/5/2019
19. M-601 – MECHANICAL DETAILS, dated 12/5/2019
20. E-100 – BASEMENT FLOOR - ELECTRICAL POWER PLAN, dated 12/5/2019
21. E-602 – ELECTRICAL DETAILS, dated 12/5/2019

END OF ADDENDUM NO. 03

SECTION TOC

TABLE OF CONTENTS

LEGLER REGIONAL LIBRARY RENOVATION

**115 S. Pulaski Road
Chicago, Illinois 60624**

**ISSUE FOR BID
NOVEMBER 13, 2019**

The following listed documents comprise the Project Manual for the project listed above. Where numerical sequence of sections is interrupted, such interruptions are intentional.

The complete Project Manual for this Project consists of Book 1, Book 2, and Book 3 (Volume 1 and 2), which must not be separated for any reason. The Architect and Owner disclaim any responsibility for any assumptions made by a Contractor or Subcontractor who does not receive a complete Project Manual, including all sections listed in the Table of Contents.

BOOK 3: VOLUME 1

Section Number Section Title

INTRODUCTORY INFORMATION

COVER PBC PROJECT MANUAL COVER PAGE
TOC TABLE OF CONTENTS

DIVISION 00 – PROCUREMENT AND CONTRACTING REQUIREMENTS

003119 EXISTING CONDITION INFORMATION
003119.10 ATTACHMENT A – MASONRY REPORT
003119.11 ATTACHMENT B - ROOF INSPECTION REPORT
003119.12 ATTACHMENT C – ELEVATOR MODERNIZATION SURVEY
003119.13 ATTACHMENT D – FIRE ESCAPE REPORT
003126 EXISTING HAZARDOUS MATERIAL INFORMATION
**003126.10 ATTACHMENT A – ASBESTOS-CONTAINING MATERIAL, LEAD-BASED PAINT AND
HAZARDOUS MATERAIL SURVEY SUMMARY REPORT**

DIVISION 01 – GENERAL REQUIREMENTS

015611 GENERAL DUST, FUME AND ODOR CONTROL

DIVISION 02 – EXISTING CONDITIONS

022401 ENVIRONMENTAL SCOPE SHEETS
024100 SITE DEMOLITION
024119 SELECTIVE DEMOLITION
028214 ASBESTOS ABATEMENT FOR INTERIORS

028319.13 LEAD BASED PAINT MITIGATION/ABATEMENT
028613 HAZARDOUS AND UNIVERSAL WASTE MANAGEMENT

DIVISION 03 – CONCRETE

033000 CAST-IN-PLACE CONCRETE
033500 CONCRETE SURFACE TREATMENT
035416 HYDRAULIC CEMENT UNDERLAYMENT

DIVISION 04 – MASONRY

040100 MAINTENANCE OF MASONRY
042131 LIMESTONE MASONRY RESTORATION
042200 CONCRETE UNIT MASONRY
044313 STONE MASONRY
047200 CAST STONE MASONRY

DIVISION 05 – METALS

051200 STRUCTURAL STEEL
055000 METAL FABRICATIONS
055116 METAL FLOOR PLATE STAIRS
055213 PIPE AND TUBE RAILINGS

DIVISION 06 – WOOD, PLASTICS, AND COMPOSITES

061053 MISCELLANEOUS ROUGH CARPENTRY
064023 INTERIOR ARCHITECTURAL WOODWORK
064113 WOOD-VENEER-FACED ARCHITECTURAL CABINETS
064116 PLASTIC-LAMINATE-CLAD ARCHITECTURAL CABINETS

DIVISION 07 – THERMAL AND MOISTURE PROTECTION

070150.19 PREPARATION FOR REROOFING
075419 POLYVINYL-CHLORIDE (PVC) ROOFING
076200 SHEET METAL FLASHING AND TRIM
078413 PENETRATION FIRESTOPPING
078420 JOINT FIRESTOPPING
079200 JOINT SEALANTS
079219 ACOUSTICAL JOINT SEALANTS

DIVISION 08 – OPENINGS

080152.61 WOOD WINDOW AND DOOR REPAIRS
081113 HOLLOW METAL DOORS AND FRAMES
082110 FLUSH WOOD DOORS
083113 ACCESS DOORS AND FRAMES
083473.13 METAL SOUND CONTROL DOOR ASSEMBLIES
084113 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS
085670 SOUND CONTROL WINDOWS
087100 DOOR HARDWARE

088000	GLAZING
088700	GLAZING FILM
089119	FIXED LOUVERS

DIVISION 09 – FINISHES

090561.13	MOISTURE VAPOR EMISSION CONTROL
092116.23	GYPSUM BOARD SHAFT WALL ASSEMBLIES
091110	NON-STRUCTURAL METAL FRAMING
092300	PLASTER RESTORATION
092900	GYPSUM BOARD
093013	CERAMIC TILE
093033	STONE TILING
095113	ACOUSTICAL PANEL CEILINGS
096000	SOUND CONTROL UNDERLAYMENT
096513	RESILIENT BASE AND ACCESSORIES
096519	RESILIENT TILE FLOORING
096813	TILE CARPETING
097200	WALL COVERINGS
097519	STONE TRIM
097723	FABRIC-WRAPPED PANELS
099100	PAINTING
099600	HIGH-PERFORMANCE COATING

DIVISION 10 – SPECIALTIES

101100	VISUAL DISPLAY UNITS
101423.16	ROOM-IDENTIFICATION PANEL SIGANGE
102113.17	PHENOLIC-CORE TOILET COMPARTMENTS
102600	WALL AND DOOR PROTECTION
102800	TOILET, BATH, AND LAUNDRY ACCESSORIES
104413	FIRE EXTINGUISHERS CABINETS
104416	FIRE EXTINGUISHERS
105113	METAL LOCKERS
105600	CLOSET SHELVING

DIVISION 11 – EQUIPMENT

113013	RESIDENTAL APPLIANCES
--------	-----------------------

DIVISION 12 – FURNISHINGS

122413	ROLLER SHADES
123623.13	PLASTIC-LAMINATE-CLAD COUNTERTOPS
123661.16	SOILD SURFACING COUNTERTOPS
123661.19	QUARTZ AGGLOMERATE COUNTERTOPS

DIVISION 14 – CONVEYING EQUIPMENT

142500	HYDRAULIC PASSENGER ELEVATOR MODERNIZATION
--------	--

144200 WHEELCHAIR LIFTS

BOOK 3: VOLUME 2

DIVISION 22 – PLUMBING

220519 METERS AND GAGES FOR PLUMBING PIPING
220523 GENERAL-DUTY VALVES FOR PLUMBING PIPING
220529 HANGERS AND SUPPORTS FOR PLUMBING PIPING AND EQUIPMENT
220553 IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT
220700 PLUMBING INSULATION
221116 DOMESTIC WATER PIPING
221119 DOMESTIC WATER PIPING SPECIALTIES
221123.13 DOMESTIC – WAGTER PACKAGED BOOSTER PUMPS
221316 SANITARY WASTE AND VENT PIPING
221319 SANITARY WASTE PIPING SPECIALTIES
224000 PLUMBING FIXTURES
224700 DRINKING FOUNTAINS AND WATER COOLERS

DIVISION 23 – HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC)

230130 HVAC AIR-DISTRIBUTION SYSTEM CLEANING

230503 GENERAL PROVISIONS FOR HVAC WORK
230505 BASIC HVAC MATERIALS AND METHODS
230513 COMMON MOTOR REQUIREMENTS FOR HVAC EQUIPMENT
230515 MOTORS – VARIABLE FREQUENCY CONTROLLERS
230516 EXPANSION FITTINGS AND LOOPS FOR HVAC PIPING
230519 METERS AND GAUGES FOR HVAC PIPING
230523 GENERAL-DUTY VALVES FOR HVAC PIPING
230529 HANGERS AND SUPPORTS FOR PIPING AND EQUIPMENT
230548 VIBRATION CONTROLS FOR HVAC PIPING AND EQUIPMENT
230553 IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT
230593 TESTING, ADJUSTING, AND BALANCING FOR HVAC
230700 HVAC INSULATION
230800 COMMISSIONING FOR HVAC
230920 BUILDING AUTOMATION SYSTEM (BAS) – GENERAL
BUILDING AUTOMATION SYSTEM (BAS) – BASIC MATERIALS INTERFACE DEVICES,
AND SENSORS
230921 BUILDING AUTOMATION SYSTEM (BAS) – FIELD PANELS
230924 BUILDING AUTOMATION SYSTEM (BAS) – GENERAL SEQUENCE
232113 HYDRONIC PIPING
232123 HYDRONIC PUMPS
232300 REFRIGERANT PIPING
232500 HVAC WATER TREATMENT
233113 METAL DUCTS
233300 AIR DUCT ACCESSORIES
233423 HVAC POWER VENTILATORS

233600	AIR TERMINAL UNITS
233713	DIFFUSERS, REGISTERS, AND GRILLES
236423	MODULAR SCROLL CHILLERS
237314	CUSTOM INDOOR AIR-HANDLING UNITS
238123	SUPPLEMENTAL AIR-CONDITIONERS
238219	FAN-COIL UNITS
238239.13	CABINET UNIT HEATERS

DIVISION 26 – ELECTRICAL

260503	GENERAL REQUIREMENTS FOR ELECTRICAL SYSTEMS
260505	BASIC ELECTRICAL MATERIALS AND METHODS
260506	SELECTIVE DEMOLITION FOR ELECTRICAL
260507	TEMPORARY POWER AND COMMUNICATION SYSTEMS
260511	CONDUCTORS AND CABLES FOR ELECTRICAL SYSTEMS
260526	GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS
260529	HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS
260533	RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS
260533.23	SURFACE RACEWAYS FOR ELECTRICAL SYSTEMS
260553	IDENTIFICATION FOR ELECTRICAL SYSTEMS
260800	COMMISSIONING FOR ELECTRICAL SYSTEMS
260813	TESTING OF ELECTRICAL SYSTEMS
260923	LIGHTING CONTROL DEVICES
260936	MODULAR DIMMING CONTROLS
262416	PANELBOARDS
262716	FLOOR BOXES
262726	WIRING DEVICES
262813	FUSES
262816	ENCLOSED SWITCHES AND CIRCUIT BREAKERS
262913	ENCLOSED CONTROLLERS
265119	LED INTERIOR LIGHTING
265600	EXTERIOR LIGHTING

DIVISION 27 – COMMUNICATIONS

270500	COMMON WORK RESULTS FOR COMMUNICATIONS SYSTEMS
270526	GROUNDING AND BONDING FOR COMMUNICATIONS SYSTEMS
270528	PATHWAYS FOR COMMUNICATIONS SYSTEMS
270553	IDENTIFICATIONS FOR COMMUNICATION SYSTEMS
271100	COMMUNICATIONS EQUIPMENTS ROOM FITTINGS
271500	COMMUNICATION HORIZONTAL CABLING
274116	AUDIO VISUAL SYSTEMS

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY

280513	CONDUCTORS AND CABLES FOR ELECTRONIC SAFETY AND SECURITY
281000	CITY OF CHICAGO (2FM) SECURITY SYSTEMS SPECIFICATIONS
283100	FIRE DETECTION AND ALARM

DIVISION 31 – EARTHWORK

310000	EARTHWORK
312318.13	SOIL, FILL, BACKFILL, GENERAL CONSTRUCTION & DEMOLITION DEBRIS DISPOSAL
312323	ACCEPTANCE OF BACKFILL, TOP SOIL & CU STRUCTURAL SOIL
312500	EROSION AND SEDIMENTATION CONTROL

DIVISION 32 – EXTERIOR IMPROVEMENTS

321200	HOT MIX ASPHALT PAVING
321300	PORTLAND CEMENT CONCRETE PAVING
323119	DECORATIVE METAL FENCES AND GATES

DIVISION 33 – UTILITIES

NOT APPLICABLE

END OF TABLE OF CONTENTS

Asbestos-Containing Material, Lead-Based Paint and Hazardous Material Survey Summary Report

Site: **Legler Regional Library**
115 S. Pulaski Road
Chicago, Illinois 60624

Survey Dates: **March 19, 2019; July 26, 2019; October 3, 2019; December 3, 2019**

Project No.: **E12834X006**

Report Revision: **December 5, 2019**



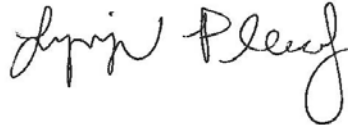
Prepared for: **Public Building Commission of Chicago**
Richard J. Daley Center, Room 200
50 West Washington Street
Chicago, Illinois 60602

Report Issue Date: August 2, 2019

Asbestos-Containing Material, Lead-Based Paint and Hazardous Material Survey Summary Report

Site: Legler Regional Library
115 S. Pulaski Road
Chicago, Illinois 60624

Report by:



Lynzie Plumley
Environmental Specialist I



Evan Christian
Senior Project Manager

Reviewed by:



Doug McCormick
Director, Field Support Services

TABLE OF CONTENTS

1.0	EXECUTIVE SUMMARY	1
2.0	INTRODUCTION	3
2.1	Renovation Scope	3
2.2	Objective	3
2.2.1	Asbestos-Containing Material Survey	3
2.2.2	Lead-Based Paint Survey	3
2.2.3	Hazardous Material Survey	4
2.3	General Facility Description	4
3.0	SITE INSPECTION	5
3.1	Asbestos-Containing Material Survey	5
3.1.1	Historical Document Review	5
3.1.2	Asbestos Survey Methodology	5
3.1.3	Suspect Asbestos-Containing Material Sample Collection	5
3.1.4	Asbestos Sample Analysis	5
3.2	Lead-Based Paint Survey	7
3.2.1	Lead-Based Paint Survey Methodology	7
3.3	Hazardous Material Survey	9
4.0	CONCLUSIONS AND RECOMMENDATIONS	14

TABLES

Table I	Summary of Asbestos Survey	6
Table II	Summary of Lead-Based Paint Survey	8
Table III	Summary of Hazardous Material Survey	9

APPENDICES

Appendix A	Inspector Licenses and Certificates
Appendix B	Sample and Asbestos-Containing Material Locations
Appendix C	Asbestos Laboratory Results and Chain of Custody Documentation
Appendix D	Lead-Based Paint Field Data Sheets
Appendix E	Photographic Documentation

1.0 EXECUTIVE SUMMARY

Carnow, Conibear & Assoc., Ltd. (Carnow Conibear) was retained by Public Building Commission of Chicago (PBCC) to perform an asbestos-containing material, lead-based paint and hazardous material survey at Legler Regional Library located at 115 S. Pulaski Road, Chicago, Illinois. The surveys incorporated accessible interior and exterior areas of the building scheduled for renovation per proposed scope of work provided by the Public Building Commission of Chicago.

The asbestos survey was conducted in phases. The first phase included a review of available historical asbestos related documentation. The second phase included a visual inspection of interior and exterior building areas to identify accessible, suspect asbestos-containing materials, collect representative samples from each suspect material, analyze samples for the presence of asbestos, and to quantify each confirmed asbestos-containing material.

The asbestos-containing materials identified include:

- **Wire Jacketing Insulation – identified on pendant lights in lobby areas**

The asbestos survey identified inaccessible areas not available at the time of this survey. A majority of space located above hard ceilings and behind masonry and plaster walls are not accessible without demolition. Asbestos-containing material may be present within these inaccessible locations.

The lead-based paint survey consisted of visually inspecting the painted survey areas to determine representative paint histories and collecting measurements utilizing an X-ray fluorescence (XRF) spectrum analyzer. The lead-based paint testing was limited to major building components and locations with damaged or peeling paint. The limited lead-based paint survey assessed for potential lead-based paint in the survey areas as defined by the Department of Housing and Urban Development (HUD).

The lead painted components identified at the subject site include:

- Plaster Walls – painted white and located in Room 007
- Stone/Concrete Walls – painted white and located in Mezzanine Areas
- Cast Iron Bookcases – painted white and located in Stack Area 113
- **Exterior Fire Escape and Roof Ladder – painted black and located on east elevation**

Notable painted components tested and are not lead-based paint include:

- **Metal fence surrounding site property**

The hazardous materials survey consisted of visually inspecting the subject site to determine the presence and location of potential polychlorinated-biphenyl (PCB) containing equipment (lighting ballasts, switchgears, transformers, and hydraulic fluids), mercury containing equipment (mercury lamps, thermostats, switches, thermometers, regulators, and gauges), and other hazardous chemical wastes, including chlorofluorocarbon (CFCs) containing equipment.

Hazardous materials identified during the survey included:

- Boiler Chemicals
- PCB containing equipment
- Mercury containing equipment
- Refrigerants
- Chemicals

Carnow Conibear recommends incorporating this information into future renovation documents regarding the presence and location of asbestos-containing materials, lead-based paint and hazardous materials. All asbestos and/or lead abatement activities shall be conducted by a licensed contractor in accordance with the Illinois Department of Public Health (IDPH), USEPA National Emissions Standards for Hazardous Air Pollutants (NESHAPS), and Occupational Safety and Health Administration (OSHA) regulations and requirements. Prior to renovation or demolition; remove, dispose, and/or recycle all regulated materials as identified in this report that may be impacted by planned renovations. All renovation/demolition work shall be performed in accordance with the requirements of OSHA's Safety and Health Regulations for Construction (29 CFR 1910 Subpart H) and all applicable local, state, and federal rules and regulations. The demolition contractor shall utilize engineering control methods to reduce or eliminate hazardous materials exposures for the site workers.

2.0 INTRODUCTION

Carnow, Conibear & Assoc., Ltd. (Carnow Conibear) was retained by Public Building Commission of Chicago (PBCC) to perform an asbestos-containing material, lead-based paint and hazardous material survey at Legler Regional Library located at 115 S. Pulaski Road, Chicago, Illinois. Surveys incorporated accessible interior and exterior areas of the building scheduled for renovation. Surveys were conducted March 19, 2019; July 25, 2019; October 3, 2019; and December 3, 2019 by Carnow Conibear representatives Mr. Evan Christian, Ms. Lynzie Plumley, and Ms. Karen Zelzer. See Appendix A for copies of inspector licenses and certificates.

2.1 Renovation Scope

The surveys incorporated accessible interior and exterior areas of the building scheduled for renovation per proposed scope of work provided by the Public Building Commission of Chicago.

2.2 Objective

2.2.1 Asbestos Containing Material Survey

The purpose of the asbestos survey was to identify the location of asbestos-containing materials within the planned renovation areas at Legler Regional Library in Chicago, Illinois. To achieve this purpose, the following procedures were performed:

- Historical Document Review – to gain an understanding of previous asbestos activities and locate structural, electrical, and mechanical elements of the building.
- Visual Inspection – to determine the location of suspect materials.
- Bulk Sampling – samples are taken in random locations, to provide representative sampling for each suspect material.
- Sample Analysis – to determine the type and percent of asbestos in the material. Materials containing greater than one percent (>1%) asbestos are considered asbestos-containing.
- Reporting – to prepare a summary report documenting the inspection findings and providing recommendations as warranted.

Because a destructive survey was not performed, the possibility exists that some asbestos-containing materials were not included in this survey if they were concealed behind walls and/or ceilings, within inaccessible pipe chases, or had restricted access. However, Carnow Conibear made every reasonable effort to locate hidden mechanical systems or other inconspicuous materials despite constraints.

2.2.2 Lead-Based Paint Survey

The objective of the lead-based paint survey was to identify painted building components to determine the existence, condition, and location of lead-based paint as defined by HUD. To achieve this objective, the following procedures were performed:

- Visual Inspection – to determine location of painted surfaces.

- Sampling – lead-based paint sampling to determine the presence of these constituents.
- Reporting – to prepare a summary report documenting the inspection findings.

2.2.3 Hazardous Materials Survey

The objective of the hazardous material survey was to determine the presence of PCBs, mercury containing equipment and any other chemicals that could present health hazards to site workers and/or require special disposal. To achieve this objective, the following procedures were performed:

- Visual Inspection – to determine the presence, quantity and location.
- Reporting – to prepare a summary documenting the inspection findings and providing recommendations as warranted.

The quantities provided in this report only represent the materials found on the day of inspection based upon the scope of proposed work. Additional chemicals and equipment may be brought onto the property after the date of the inspection or consumed and/or disposed prior to the report issue date. Hazardous materials that are not anticipated to be impacted in the proposed scope of work were not inventoried.

2.3 General Facility Description

Legler Regional Library was constructed in 1919 consists of two floors and a basement. Floors are predominantly stone, carpet, and vinyl floor tile with walls of concrete, brick, plaster, and gypsum.

3.0 SITE INSPECTION

3.1 Asbestos-Containing Material Survey

3.1.1 Historical Document Review

Available building construction documents were reviewed to gain an understanding of previous asbestos activities and locate basic building systems.

3.1.2 Asbestos Survey Methodology

The asbestos survey consisted of several phases. The first phase of the survey consisted of the historic document review. Next, a walkthrough inspection of the subject site to identify homogeneous areas (materials which are uniform in composition throughout) and to assess material condition was conducted. The final phase consisted of collecting representative bulk samples from the suspected asbestos-containing materials. Materials may have been assumed to contain asbestos due to inaccessibility of the room or area where the materials were located or if sampling of the material would damage or compromise the integrity of the building component and may render it inoperable.

3.1.3 Suspect Asbestos Containing Material Sample Collection

All bulk samples were collected based on methods described in USEPA guidelines. The samples were collected and stored in sample bags with a unique sample identification number prior to delivery to STAT Analysis Corporation (STAT) for analysis. A chain of custody (COC) form was signed and dated by the inspector, the delivering representative, and the laboratory representative who received the samples.

3.1.4 Asbestos Sample Analysis

STAT's laboratory is accredited for bulk asbestos fiber analysis by the National Voluntary Laboratory Accreditation Program (NVLAP) through the National Institute of Standards and Technology (NIST). STAT utilized dispersion staining and polarized light microscopy (PLM) techniques for analyzing the samples consistent with National Institute for Occupational Safety and Health (NIOSH) methods. PLM is the EPA's recognized method for determining bulk asbestos content.

The results of the laboratory analysis revealed the presence of asbestos-containing materials. Table I summarize the results of the bulk sample analysis, material description, location, and estimated quantity. See Appendix B for approximate locations of all identified asbestos materials and Appendix C for the bulk sample laboratory report and chain of custody documentation.

Table I – Summary of Asbestos Survey

Legler Regional Library Renovations
 115 S. Pulaski Road, Chicago, Illinois

SAMPLE ID	MATERIAL DESCRIPTION	MATERIAL LOCATION	LABORATORY RESULT	ESTIMATED QUANTITY/ COMMENTS
EC031919-01 thru 07	Hard Coat Plaster	Original Walls and Ceilings Throughout	Asbestos Not Detected	Not Quantified
EC031919-08 thru 10	Tan Carpet (Broadloom) Glue	108, 111, 114, Stack 113, 227	Asbestos Not Detected	Not Quantified
EC031919-11 thru 13	Tan Carpet (Tile) Glue and Gray Leveling Compound	107, 119, Stack 113, Media 206,	Asbestos Not Detected	Not Quantified
EC031919-14 thru 16	White Interior Window Caulk	Windows Throughout	Asbestos Not Detected	Not Quantified
EC031919-17 thru 19	12"x12" Pink Mottled Floor Tile	Corridor 225	Asbestos Not Detected	Not Quantified
EC031919-20 thru 22	Tan Glue beneath 12"x12" Pink Mottled Floor Tile	Corridor 225	Asbestos Not Detected	Not Quantified
EC031919-23 thru 25	2'x4' Suspended Ceiling Tile – Segmented Gouges and Pinholes	Receiving Room 119, Corridor 120, Stack Area, Office Spaces, Corridor 225	Asbestos Not Detected	Not Quantified
EC031919-26 thru 28	12"x12" Gray Floor Tile w/ Small Black Specks	Closets 212, 213, 215; Storage 220	Asbestos Not Detected	Not Quantified
EC031919-29 thru 31	Tan Glue beneath 12"x12" Gray Floor Tile w/ Small Black Specks	Closets 212, 213, 215; Storage 220	Asbestos Not Detected	Not Quantified
EC031919-32 thru 34	12"x12" Brown and Tan Mottled Floor Tile	Basement Corridor, Staff Lounge 006, Meeting Room 007, Basement Corridor 019, Receiving 119, Corridor 120, Closet 104, Lab 209	Asbestos Not Detected	Not Quantified
EC031919-35 thru 37	Tan Glue beneath 12"x12" Brown and Tan Mottled Floor Tile	Basement Corridor, Staff Lounge 006, Meeting Room 007, Basement Corridor 019, Receiving 119, Corridor 120, Closet 104, Lab 209	Asbestos Not Detected	Not Quantified
EC031919-38 thru 40	Drywall	Office Areas, Corridor 225, 209, 210, 207, Staff Lounge 006, Various Buildouts	Asbestos Not Detected	Not Quantified
EC031919-41 thru 43	Drywall Joint Compound	Office Areas, Corridor 225, 209, 210, 207, Staff Lounge 006, Various Buildouts	Asbestos Not Detected	Not Quantified
EC031919-44 thru 46	Gray Sink Undercoating	Room 209	Asbestos Not Detected	Not Quantified
EC031919-47 thru 49	Tan Glue behind Acoustical Panels	Meeting Room 007	Asbestos Not Detected	Not Quantified
EC031919-50 thru 52	2'x4' Suspended Ceiling Tile – Pinholes	Work Room 001, Meeting Room 007, Staff Lounge 006	Asbestos Not Detected	Not Quantified

SAMPLE ID	MATERIAL DESCRIPTION	MATERIAL LOCATION	LABORATORY RESULT	ESTIMATED QUANTITY/ COMMENTS
EC031919-53 thru 55	Red Fire Stop	Conduit Penetrations Throughout	Asbestos Not Detected	Not Quantified
EC031919-56 thru 58	4" Black Baseboards	Various Locations	Asbestos Not Detected	Not Quantified
EC031919-59 thru 61	Tan Blue behind Baseboards	Various Locations	Asbestos Not Detected	Not Quantified
EC072519-01 thru 03	Asphalt Roof Field	Main Roof	Asbestos Not Detected	Not Quantified
EC072519-04 thru 06	Roof Flashing	Main Roof	Asbestos Not Detected	Not Quantified
EC072519-07 thru 09	Black/Gray Roof Sealant	Main Roof	Asbestos Not Detected	Not Quantified
EC072519-10 thru 12	Membrane Roof Insulation	Penthouse Roof, Walkout Roofs	Asbestos Not Detected	Not Quantified
EC072519-13 thru 15	Cement Plaster	Penthouse/Mezzanine Glass	Asbestos Not Detected	Not Quantified
EC072519-16 thru 19	White/Gray Parapet Sealant	Roof Parapet	Asbestos Not Detected	Not Quantified
EC072519-20 thru 21	Ceramic Tile Mortar/Glue	Restrooms	Asbestos Not Detected	Not Quantified
Not Sampled	Fiberglass Thermal Systems Insulation	Throughout Building	Material Not Suspect to Contain Asbestos	<i>All TSI observed during inspection was fiberglass. Asbestos pipe insulation may exist in inaccessible areas or within pipe chases.</i>
EC100319-01 thru 03	Door Caulk – Black	018	Asbestos Not Detected	Not Quantified
EC100319-04 thru 06	Interior Window Caulk – White	021, 022	Asbestos Not Detected	Not Quantified
EC100319-07 thru 09	Interior Window Caulk – White type 2	211	Asbestos Not Detected	Not Quantified
EC100319-10 thru 12	Residual Black Floor Tile Mastic	006, 007	Asbestos Not Detected	Not Quantified
EC100319-13 thru 15	Floor Vapor Barrier	209	Asbestos Not Detected	<i>Located beneath wood subfloor.</i>
EC100319-16 thru 18	Flooring Material – Red	209	Asbestos Not Detected	<i>Located beneath wood subfloor.</i>

SAMPLE ID	MATERIAL DESCRIPTION	MATERIAL LOCATION	LABORATORY RESULT	ESTIMATED QUANTITY/ COMMENTS
EC100319-19 thru 21	Wire Jacketing Insulation	Pendant Lights in Lobby	10-15% Chrysotile Asbestos	<i>Wire jacketing may be located in other inaccessible areas.</i>

IDPH and EPA define an asbestos-containing material as any material containing greater than 1 percent asbestos.

Bold indicates greater than 1% ACM.

Locations are provided for reference only. Materials may exist in other areas not noted.

3.2 Lead-Based Paint Survey

3.2.1 Lead-Based Paint Survey Methodology

The lead-based paint survey consisted of visually inspecting the painted survey areas to determine representative paint histories and to collect random samples utilizing an X-ray fluorescence (XRF) spectrum analyzer. The lead-based paint testing was limited to major building components and locations with damaged or peeling paint only. Sampling of suspect lead-based paint (LBP) components and/or surfaces was conducted following the U.S. Department of Housing and Urban Development (HUD) guidelines of June 1995 for single family housing, Chapter 7, Lead Based Paint Inspection, 1997 Revision, and the EPA and HUD's Performance Characteristics Sheet for the RMD LPA-1 XRF lead paint analysis system. There may be materials that were not identified, because they were located in inaccessible areas and not available at the time of inspection.

Paint sampling was conducted utilizing an X-Ray Fluorescence spectrum analyzer (XRF), manufactured by Radiation Monitoring Devices, Inc. (RMD) located in Watertown, Massachusetts. The RMD model LPA-1 uses a Cobalt 57 (⁵⁷Co) radioactive source and an advanced, solid-state radiation detector to generate an X-Ray fluorescence spectrum of a painted surface. The spectrum is then analyzed by a microprocessor to eliminate the effects of substrate and other factors such as scattering to allow an accurate determination of the amount of lead on a surface.

Portable XRF lead-based paint analyzers are the most common method for inspections in buildings, because of their accuracy, high speed, and ability to measure the paint without destructive sampling.

See Appendix D for a complete testing log of all XRF measurements collected for this survey.

Table II presents the lead-based paint components and/or surfaces identified during this sampling.

Table II – Summary of Positive Lead-Based Paint

Legler Regional Library Renovations
115 S. Pulaski Road, Chicago, Illinois

COMPONENT	LOCATION	SUBSTRATE	COLOR	CONDITION	RESULT (mg/cm ²)
North, South, East, West Walls	Lobby 201	Concrete	White	Intact	3 - 10
Cast Iron Bookcases	Stack 113	Metal	White	Intact	5.8
North, South, East, West Walls	Room 007	Plaster	White	Intact	4 - 14
Fire Escape	East Elevation	Metal	Black	Deteriorated	4.5 – 7.1
Roof Ladder	East Elevation	Metal	Black	Deteriorated	4.2

Painted surfaces which indicate a concentration of ≥ 1.0 milligram per centimeter squared (mg/cm²) of surface area are considered to be lead-based paint as defined by HUD.

3.3 Hazardous Material Survey

The survey consisted of a visual inspection to determine the location and quantity of hazardous and potentially hazardous materials that may require special disposal considerations. Areas proposed for renovation were surveyed for polychlorinated-biphenyl (PCB) containing equipment and materials (lighting ballasts, switchgears, transformers, and hydraulic fluids), and mercury-containing equipment and materials (mercury lamps, thermostats, switches, thermometers, regulators, and gauges), as well as other potentially hazardous chemicals. Hazardous materials identified during the survey are summarized on Table III.

Table III – Summary of Hazardous Material Survey

Legler Regional Library
 115 S. Pulaski Rd.
 Chicago, Illinois

CATEGORY	ITEM	QUANTITY	UNITS	LOCATION(S)
Chemicals	Delayed Action Door Close (small oil tank)	3	each	Children Music Room #210, SW Meeting Room, Storage/Workroom #022,
	Hydraulic Elevator Reservoir	1	each	Elevator Equipment Room #010
	Polyol Ester Oil Canister	1	each	Condenser Room
	Grease Trap	1	each	Auditorium #227
	Boiler Cleaning Chemicals (55 gallon drums)	10	each	Mechanical Equipment Rooms #016/017/018
PCBs	Fluorescent Ballasts	1504	each	Throughout Building
	HID Ballasts	29	each	Exterior of Building and Below-Grade Exterior Window Wells.
	Switchgears	1	bank	Mechanical Equipment Rooms #016/017/018
Mercury	Fluorescent Bulbs	771	each	Throughout Building
	HID Bulbs	29	each	Exterior of Building and Below-Grade Exterior Window Wells.
	Thermostats	38	each	Office, Auditorium, Lobby #201, Youth Media Front Room, Music Studio, Book Stack Area #113, Clerical Staff, Branch Librarian Office, Vestibule #101, Adult Reference Room #107, Small Conference Room #108, Children's Room #119, SW Meeting Room, Employee Lounge, Basement Hallway #019/#002, Storage/Workroom #022,

Table III – Summary of Hazardous Material Survey

Legler Regional Library
 115 S. Pulaski Rd.
 Chicago, Illinois

CATEGORY	ITEM	QUANTITY	UNITS	LOCATION(S)
				Mechanical Equipment Rooms #016/017/018, S. Storage #021, N. Storage #021, Condenser Room #020,
	Gauges	17	each	Pump Room, Mechanical Equipment Rooms #016/017/018, Condenser Room #020
	Switches	3	each	Closet #112, Basement Hallway #019/#002, and Engineer's Locker Room #015
	Thermometer	1	each	Condenser Room #020
Refrigerants	Built-in Mini Refrigerator	1	each	Auditorium #227
	Built-in Ice Maker	1	each	Auditorium #227
	Drinking Fountain with Refrigerant	1	each	Employee Lounge
	Refrigerant Canister	1	each	Condenser Room
	Tetrafluoroethane Tanks (5 gallon)	2	each	Mechanical Equipment Rooms #016/#017/#018
Other/Universal Waste	Batteries – Emergency/Exit Lights and Smoke/Carbon Monoxide Detectors	70	each	Corridor #225, Auditorium #227, Lobby #201, Youth Media Front Room, Children's Music Room #210, SE Stairwell #222, Corridor #120/121, Book Stack Area #113, Mezzanine Book Stack Area, Adult Reference Room #107, Children's Room #119, Vestibule #008, SW Meeting Room, Employee Lounge and Basement Hallway #019/002.

All high intensity discharge (HID) light and fluorescent light ballasts are assumed to potentially contain PCBs. All non-digital thermostats and gauges are assumed to contain mercury and should be handled with caution. Cleaning chemicals mainly consisted of multipurpose surface cleaners.

In addition to the materials listed in Table III, easily transportable devices potentially containing hazardous materials such as fire extinguishers, refrigerators, freezers, mini refrigerators, microwaves, TVs and containers of standard cleaning chemicals were observed in many of the

proposed renovation areas. These mobile components appeared to be in use at the time of the survey and/or are expected to be preserved and relocated prior to work. Therefore, these items have been recorded, but were omitted from the hazardous materials survey.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Carnow, Conibear & Assoc., Ltd. (Carnow Conibear) was retained by the Public Building Commission of Chicago to perform an asbestos-containing material, lead-based paint and hazardous material survey at Legler Regional Library in Chicago, Illinois. The survey incorporated accessible interior and exterior areas of the building scheduled for renovation.

Based on the survey results, Carnow Conibear recommends the following:

- Incorporate the data from this report into future renovation documents regarding the presence of asbestos-containing materials, lead-based paint and hazardous materials.
- All future lead-based paint or hazardous material removal and/or demolition/renovation work shall be conducted by a licensed contractor in accordance with IDPH, NESHAPS, IEPA, and OSHA regulations and requirements.
- Dispose of all lead-based paint and hazardous materials in accordance with all applicable local, state, and federal regulations.
- A majority of space located above hard ceilings and behind masonry walls are not accessible without demolition. Asbestos-containing material may be present within these inaccessible locations. If unidentified materials are found in these areas, these materials shall be assumed to be asbestos-containing.

Carnow Conibear has applied prevailing industry standards and reasonable judgment and effort within the scope of work outlined in Carnow Conibear's proposal, while conducting the asbestos-containing material, lead-based paint and hazardous material survey. The standards, judgment, and effort used by Carnow Conibear personnel to investigate, assess, and determine the presence of potential environmental hazards and liabilities associated with the subject building are consistent with requirements outlined in federal and state guidelines. Carnow Conibear makes no warranty, express or implied, that the findings and interpretations in this report are a complete representation hazards and liabilities, associated with the building. Findings presented in this report are only indicative of conditions present during the time of the investigation and cannot be used to predict potential future or previous health effects on building occupants. The services performed by Carnow Conibear on this project have been conducted in a professional manner consistent with industry standards at the time of testing. There may be materials that were not identified, because they were located in inaccessible areas and not available at the time of inspection. Carnow Conibear made every reasonable effort to locate mechanical systems and other inconspicuous materials.

The information contained in this report was prepared based upon specific test parameters requested by the Public Building Commission of Chicago and regulations in force at the time of the report. The information herein is only for the specific use of the Public Building Commission of Chicago, Chicago Public Schools, and Carnow Conibear. Carnow Conibear accepts no responsibility for the use, reuse, interpretation, or reliance by other parties on the information contained herein, unless written authorization has been obtained from Carnow Conibear. Carnow Conibear bears no responsibility for the implementation of recommendations included in this report unless specifically requested to do so by the Public Building Commission of Chicago.

APPENDIX A

Inspector Licenses and Certificates



**ASBESTOS
PROFESSIONAL
LICENSE**

ID NUMBER

100 - 19466

ISSUED

4/12/2019

EXPIRES

05/15/2020

EVAN I CHRISTIAN

3024 N RACINE AVE, APT 2

CHICAGO, IL 60657

Environmental Health



ENDORSEMENTS

TC EXPIRES

INSPECTOR	11/28/2019
MANAGEMENT PLANNER	1/5/2019
PROJECT MANAGER	2/5/2020
AIR SAMPLING PROFESSIONAL	

Alteration of this license shall result in legal action
This license issued under authority of the State of Illinois
Department of Public Health
This license is valid only when accompanied by a valid
training course certificate.

2018



OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900 ♦ www.otssafety.com

Asbestos Building Inspector Refresher

Occupational Training & Supply, Inc. certifies that
Evan Christian

has successfully completed the Asbestos Building Inspector Refresher course and has passed the competency exam with a minimum score of 70%. The course is accredited by the Illinois Department of Public Health and Indiana Department of Environmental Management for purposes of accreditation in accordance with EPA 40 CFR 763, Asbestos Hazard Emergency response Act (AHERA) and TSCA Title II.

Course Date: 11/28/2018

Exam Date: 11/28/2018

Expiration Date: 11/28/2019

Certificate Number: BIR1811283257



Kathy DeSalvo, Director



**LEAD RISK
ASSESSOR LICENSE**

LEAD ID	ISSUED	EXPIRES
1002004	1/9/2019	1/31/2020

Evan I Christian
3024 N Racine Ave, Apt 2
Chicago, IL 60657



ILLINOIS LEAD PROGRAM
Environmental Health

Alteration of this license shall result in legal action
RISK ASSESSOR CERTIFICATE EXPIRES

3/2/2020

This license issued under authority of the State
of Illinois -Department of Public Health

This license is valid only when accompanied by
a valid training course certificate

If found return to 525 W. Jefferson St Springfield, IL 62761

2017



OCCUPATIONAL TRAINING & SUPPLY, INC.

7233 S. Adams Street ♦ Willowbrook, IL 60527 ♦ (630) 655-3900 ♦ www.otssafety.com

Lead Risk Assessor Initial

Occupational Training & Supply, Inc. certifies that

Evan Christian

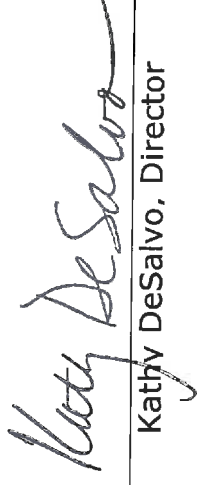
has successfully completed the Lead Risk Assessor Initial course and has passed the competency exam with a minimum score of 70%. This course is accredited by the Illinois Department of Public Health in accordance with the Illinois Lead Poisoning Prevention Code.

Course Date: 3/1/2017 - 3/2/2017

Exam Date: 3/2/2017

Expiration Date: 3/2/2020

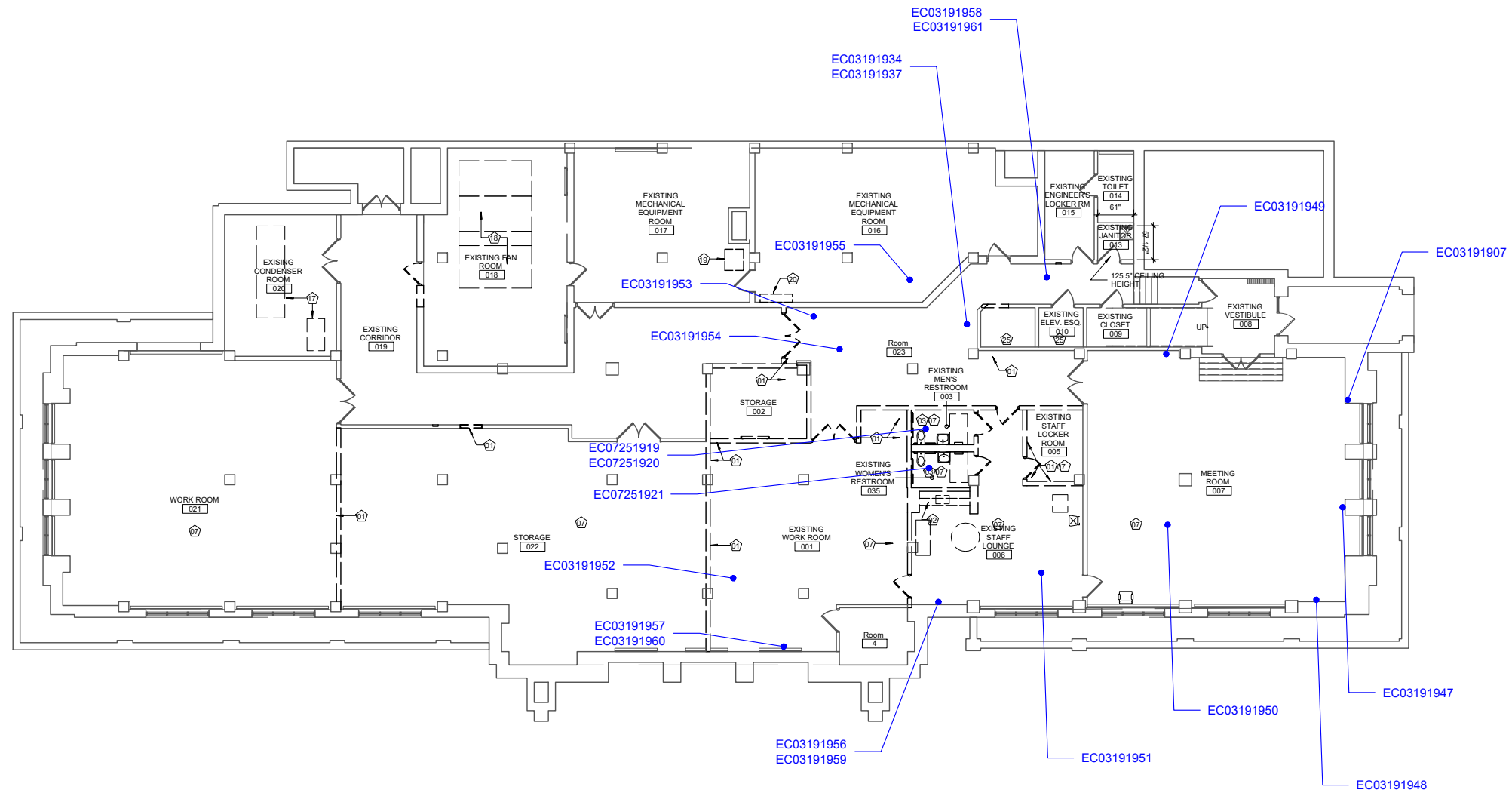
Certificate Number: LRA1703020789


Kathy DeSalvo, Director

APPENDIX B

Sample and Asbestos-Containing Material Locations

KEYNOTES	
●	Sample Location -- Sample ID



1 ASBESTOS INSPECTION
BASEMENT FLOOR PLAN

NTS

DRAWING HISTORY				
NO.	DATE	DRAWN BY:	CHECKED BY:	REMARKS
1	08/01/2019	J. Kalingasan	E. Christian	
2				
0				

CLIENT:
**Public Building Commission of Chicago
Richard J. Daley Center, Room 200
50 West Washington Street
Chicago, Illinois 60602**

PROJECT NAME:
**Asbestos Inspection
Legler Regional Library
115 South Pulaski Road
Chicago, IL 60624**

SHEET TITLE:
**ASBESTOS INSPECTION
BASEMENT**

CCA PROJECT NO.
E12834W006

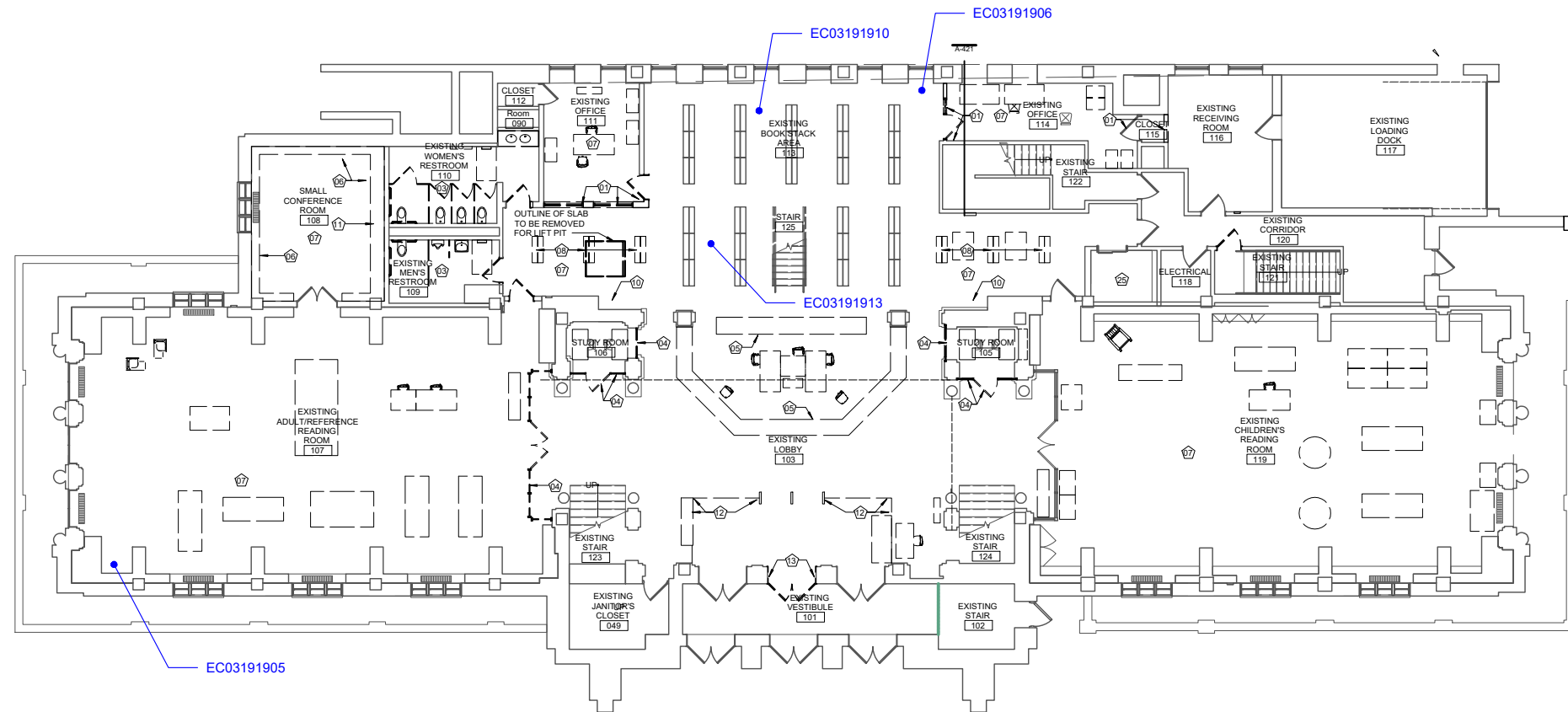
DATE:
August 1, 2019

SHEET NO.
ASB-1

Carnow, Conibeare & Assoc., Ltd.
Environmental Consulting Services
600 W. Van Buren St., Suite 500, Chicago, IL 60607
t: 312.762.4486 f: 312.762.5145
www.ccaltd.com

W:_comaw\PRDCC\Legler Branch Library\Chicago\Legler Branch Library\Sample Location drawing.dwg

KEYNOTES	
●	Sample Location -- Sample ID



2 ASBESTOS INSPECTION
1ST FLOOR PLAN

NTS

W:_comawp\PRDCC\Legler Branch Library\Chicago\Legler Branch Library\Sample Location drawing.dwg

DRAWING HISTORY				
NO.	DATE	DRAWN BY:	CHECKED BY:	REMARKS
1	08/01/2019	J. Kalingasan	E. Christian	
2				
0				

CLIENT:
**Public Building Commission of Chicago
Richard J. Daley Center, Room 200
50 West Washington Street
Chicago, Illinois 60602**

PROJECT NAME:
**Asbestos Inspection
Legler Regional Library
115 South Pulaski Road
Chicago, IL 60624**

SHEET TITLE:
**ASBESTOS INSPECTION
1ST FLOOR**

CCA PROJECT NO.
E12834W006

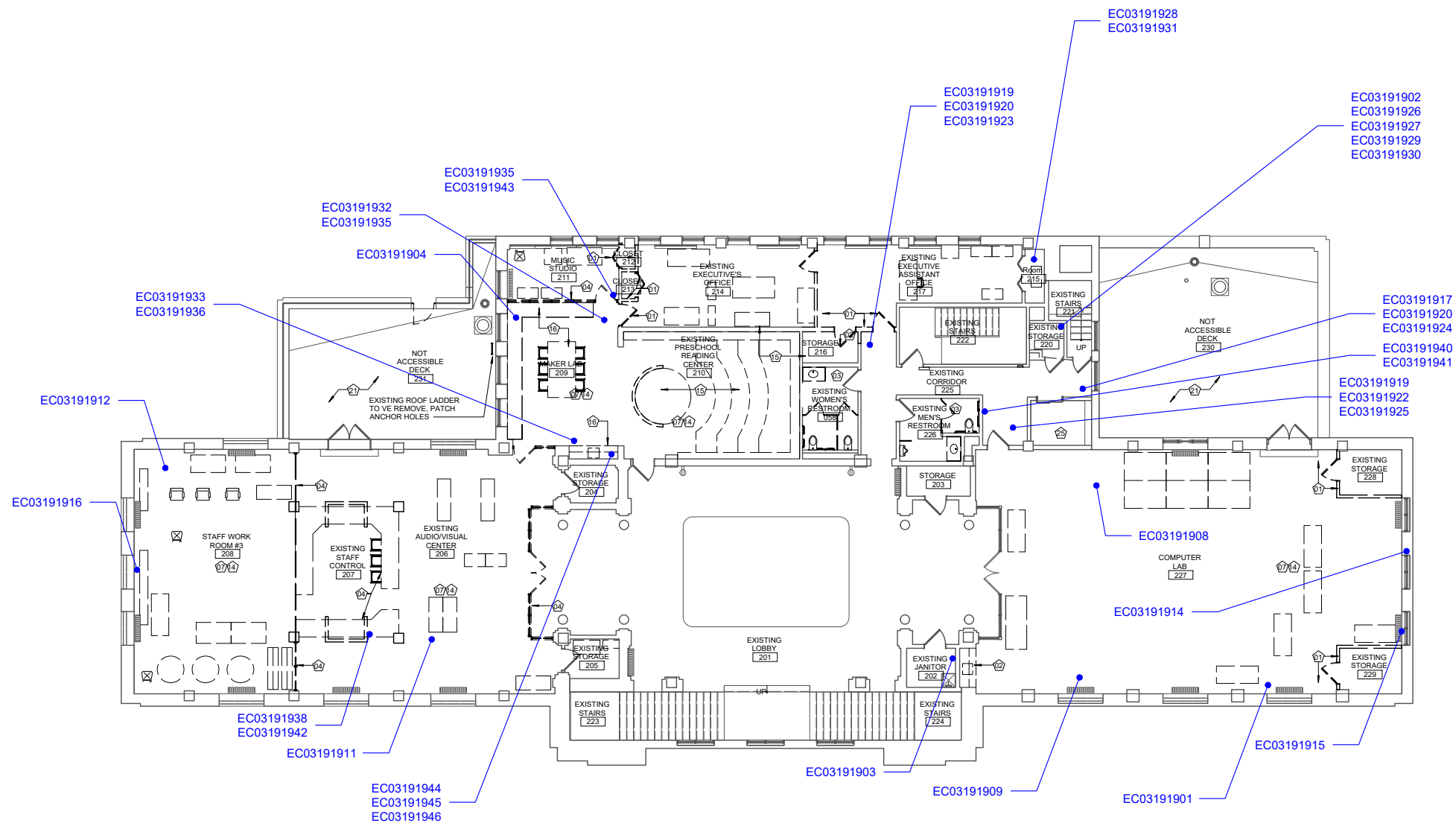
DATE:
August 1, 2019

SHEET NO.
ASB-2

Carnow, Conibear & Assoc., Ltd.
Environmental Consulting Services
600 W. Van Buren St., Suite 500, Chicago, IL 60607
t: 312.762.4486 f: 312.762.5145
www.ccaltd.com

**CARNOW
CONIBEAR**

KEYNOTES	
●	Sample Location -- Sample ID



3 ASBESTOS INSPECTION
2ND FLOOR PLAN



DRAWING HISTORY				
NO.	DATE	DRAWN BY:	CHECKED BY:	REMARKS
1	08/01/2019	J. Kalingasan	E. Christian	
2				
0				

CLIENT:
**Public Building Commission of Chicago
Richard J. Daley Center, Room 200
50 West Washington Street
Chicago, Illinois 60602**

PROJECT NAME:
**Asbestos Inspection
Legler Regional Library
115 South Pulaski Road
Chicago, IL 60624**

SHEET TITLE:
**ASBESTOS INSPECTION
2ND FLOOR**

CCA PROJECT NO.
E12834W006

DATE:
August 1, 2019

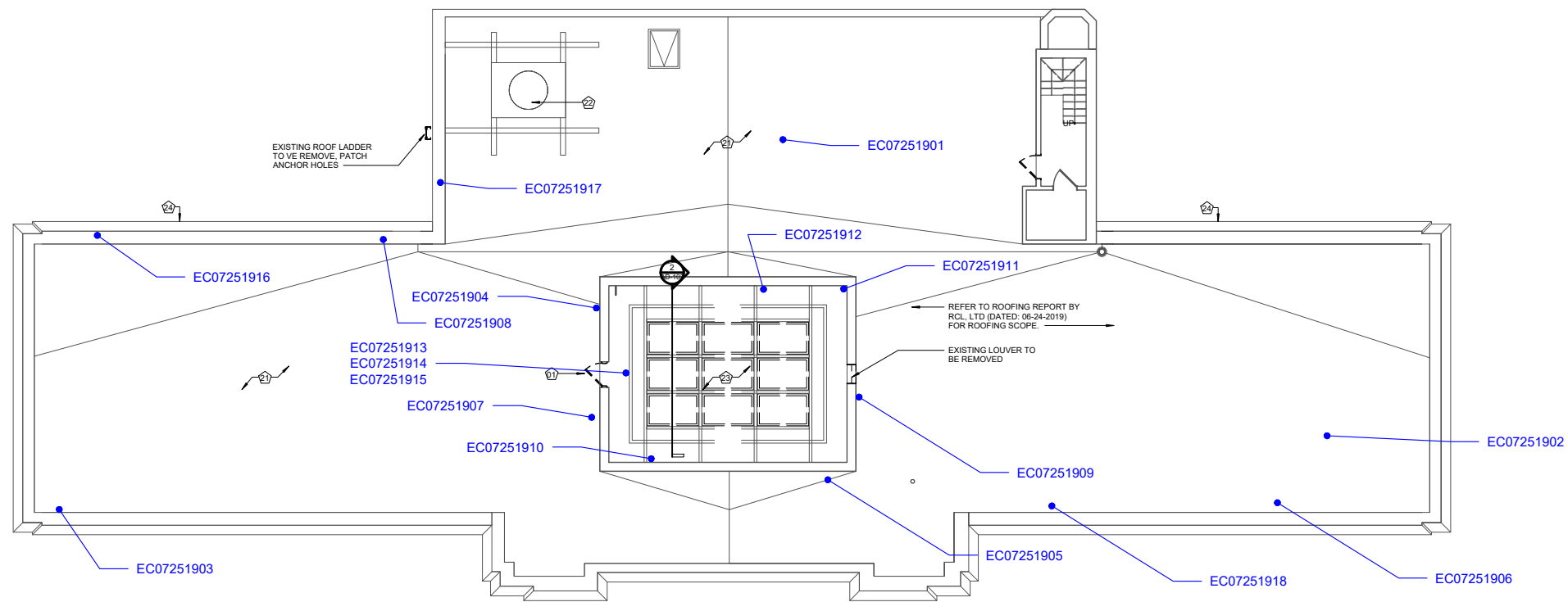
SHEET NO.
ASB-3

Carnow, Conibear & Assoc., Ltd.
Environmental Consulting Services
600 W. Van Buren St., Suite 500, Chicago, IL 60607
t: 312.762.4486 f: 312.762.5145
www.ccaltd.com

**CARNOW
CONIBEAR**

W:_com\p19202\Public Building Commission of Chicago\Legler Regional Library\Sample Location drawing.dwg

KEYNOTES	
●	Sample Location -- Sample ID



4 ASBESTOS INSPECTION
ROOF PLAN

W:_comawp\FDCC\Legler Branch Library\Chicago\Legler Branch Library Sample Location drawing.dwg

DRAWING HISTORY					CLIENT:	PROJECT NAME:	SHEET TITLE:	CCA PROJECT NO.
NO.	DATE	DRAWN BY:	CHECKED BY:	REMARKS	Public Building Commission of Chicago Richard J. Daley Center, Room 200 50 West Washington Street Chicago, Illinois 60602	Asbestos Inspection Legler Regional Library 115 South Pulaski Road Chicago, IL 60624	ASEBSTOS ABATEMENT ROOF	E12834W006
1	08/01/2019	J. Kalingasan	E. Christian	DATE:				August 1, 2019
2				SHEET NO.				ASB-4
0								
Carnow, Conibear & Assoc., Ltd. Environmental Consulting Services 600 W. Van Buren St., Suite 500, Chicago, IL 60607 t: 312.762.4486 f: 312.762.5145 www.ccaltd.com								

APPENDIX C

Asbestos Laboratory Results and Chain of Custody Documentation

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Carnow, Conibear, & Associates
 600 W. Van Buren Street, Suite 500
 Chicago, IL 60607
 Phone: (312) 782-4486
 Fax: (312) 782-5145

Reference: E12834X006 Date Received: 07/25/2019
 Location: Legler Library 115 S Pulaski Date Analyzed: 07/26/2019
 Batch No.: 343283 Date Reported: 07/26/2019
 Customer No.: 141 Turn Around Time: 1 Day

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
343283001	EC072519-01	ND	Binder 80-85% Glass 15-20%
343283002	EC072519-02	ND	Binder 80-85% Glass 15-20%
343283003	EC072519-03	ND	Binder 80-85% Glass 15-20%
343283004	EC072519-04	ND	Binder 99-100%
343283005	EC072519-05	ND	Binder 99-100%
343283006	EC072519-06	ND	Binder 99-100%
343283007	EC072519-07	ND	Binder 99-100%
343283008	EC072519-08	ND	Binder 99-100%
343283009	EC072519-09	ND	Binder 99-100%
343283010	EC072519-10	ND	Cellulose 20-25% Binder 75-80%
343283011	EC072519-11	ND	Cellulose 20-25% Binder 75-80%
343283012	EC072519-12	ND	Cellulose 20-25% Binder 75-80%
343283013	EC072519-13	ND	Binder 90-95% Other 5-10%

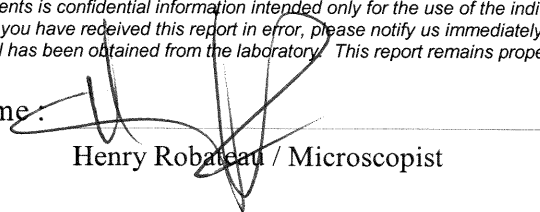
ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This report remains property of STAT Analysis until payment is received in full (see invoice).

Analyzed by Name:



Henry Robateau / Microscopist



ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Carnow, Conibear, & Associates
600 W. Van Buren Street, Suite 500
Chicago, IL 60607
Phone: (312) 782-4486
Fax: (312) 782-5145

Reference: E12834X006 Date Received: 07/25/2019
Location: Legler Library 115 S Pulaski Date Analyzed: 07/26/2019
Batch No.: 343283 Date Reported: 07/26/2019
Customer No.: 141 Turn Around Time: 1 Day

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
343283014	EC072519-14	ND	Binder 90-95% Other 5-10%
343283015	EC072519-15	ND	Binder 90-95% Other 5-10%
343283016	EC072519-16	ND	Binder 99-100%
343283017	EC072519-17	ND	Binder 99-100%
343283018	EC072519-18	ND	Binder 99-100%
343283019	EC072519-19	ND	Binder 90-95% Other 5-10%
343283020	EC072519-20	ND	Binder 90-95% Other 5-10%
343283021	EC072519-21	ND	Binder 90-95% Other 5-10%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This report remains property of STAT Analysis until payment is received in full (see invoice).

Analyzed by Name:

Henry Robitaille / Microscopist

STAT Analysis Corporation

2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
 e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Page: 1 of 2

Client: Carnow Conibear	Turn Around: Immediate: <input type="checkbox"/> 4 Hrs: <input type="checkbox"/> 8 Hrs: <input checked="" type="checkbox"/> 24 Hrs: <input checked="" type="checkbox"/> 1 Day: <input checked="" type="checkbox"/> 2 Days: <input type="checkbox"/> 3 Days: <input type="checkbox"/> 5 Days: <input type="checkbox"/>
Street Address: 600 W. Van Buren Suite 500	Date Due: _____ Time Due: _____ Note: Not all turn around times are available for all analysis.
City, State, Zip: Chicago, IL 60607	OFFICE USE ONLY BELOW:
Phone: 312-762-2900	
Fax: 312-782-5145	Relinquished by: <u>Emm</u> Date/Time: <u>7/25/19 3:10</u>
e-mail/Alt. Fax: _____	Batch No.: <u>343283</u> Received by: <u>EL</u> Date/Time: <u>7/25/19 15:10</u>
Project Number: XXXX <u>E12834X006</u>	Samples Acceptable: Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Project Name: <u>Legler Library</u>	Checked by (Initial/Date): <u>[Signature] 7/26/19</u>
Project Location: <u>115 S. Pulaski</u>	QC by (Initial/Date): <u>[Signature] 7/26/19</u>
Project Manager: <u>EVAN CHRISTIAN</u>	Reported By (Initial/Date/Time/Method): _____
P.O. Number: _____	Comments: _____

Client Sample Number/Description:	Date Taken	Time		Rate (lpm)	Volume (Liters)	Area Wiped (ft ²)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water	Other:
		On	Off														
<u>EC072519-</u>	<u>7/25/19</u>																
<u>01 Asphalt Roof</u>																	
<u>02 Field</u>																	
<u>03 ↓</u>																	
<u>04 Roof Flashing</u>																	
<u>05 ↓</u>																	
<u>06 ↓</u>																	
<u>07 Black/Gray Roof</u>																	
<u>08 Sealant</u>																	
<u>09 ↓</u>																	
<u>10 Membrane Roof</u>																	
<u>11 Insulation</u>																	
<u>12 ↓</u>																	

Comments: Email results to echristian@ccaltd.com

STAT Analysis Corporation

2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
 e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Page: 2 of 2

Client: Carnow Conibear	Turn Around: Immediate: <input type="checkbox"/> 4 Hrs: <input type="checkbox"/> 8 Hrs: <input type="checkbox"/> 24 Hrs: <input checked="" type="checkbox"/> 1 Day: <input checked="" type="checkbox"/> 2 Days: <input type="checkbox"/> 3 Days: <input type="checkbox"/> 5 Days: <input type="checkbox"/>
Street Address: 600 W. Van Buren Suite 500	Date Due: _____ Time Due: _____ Note: Not all turn around times are available for all analysis.
City, State, Zip: Chicago, IL 60607	OFFICE USE ONLY BELOW:
Phone: 312-762-2900	
Fax: 312-782-5145	Relinquished by: <u>Emma Christian</u> Date/Time: <u>7/25/19 3:10</u>
e-mail/Alt. Fax: _____	Batch No.: <u>343283</u> Received by: <u>SL</u> Date/Time: <u>7/25/19 15:10</u>
Project Number: <u>E12834X006</u>	Samples Acceptable: Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Project Name: <u>Legler Library</u>	Checked by (Initial/Date): <u>[Signature] 7/26/19</u>
Project Location: <u>115 S. Polaski</u>	QC by (Initial/Date): _____
Project Manager: <u>Emma Christian</u>	Reported By (Initial/Date/Time/Method): _____
P.O. Number: _____	Comments: _____

Client Sample Number/Description:	Date Taken	Time		Rate (lpm)	Volume (Liters)	Area Wiped (ft ²)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water	Other:
		On	Off														
13 Mezzanine Skylight	7/25/19																
14 Cement Plaster																	
15 ✓																	
16 White/gray Parapet																	
17 Sealant																	
18 ✓																	
19 Ceramic Tile Men's 003																	
20 ✓																	
21 ✓ Women's 035																	

Comments: Email results to echristian@ccltd.com



ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Carnow, Conibear, & Associates
600 W. Van Buren Street, Suite 500
Chicago, IL 60607
Phone: (312) 782-4486
Fax: (312) 782-5145

Reference: E12834X006 Date Received: 03/19/2019
Location: Legler Library 115 S Pulaski Date Analyzed: 03/21/2019
Batch No.: 340816 Date Reported: 03/21/2019
Customer No.: 141 Turn Around Time: 2 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
340816001	EC031919-01	ND	Cellulose 1-5% Binder 95-99%
340816002	EC031919-02	ND	Cellulose 1-5% Binder 95-99%
340816003	EC031919-03	ND	Cellulose 1-5% Binder 95-99%
340816004	EC031919-04	ND	Cellulose 1-5% Binder 95-99%
340816005	EC031919-05	ND	Cellulose 1-5% Binder 95-99%
340816006	EC031919-06	ND	Cellulose 1-5% Binder 95-99%
340816007	EC031919-07	ND	Cellulose 1-5% Binder 95-99%
340816008	EC031919-08	ND	Cellulose 1-5% Binder 95-99%
340816009	EC031919-09	ND	Cellulose 1-5% Binder 95-99%
340816010	EC031919-10	ND	Cellulose 1-5% Binder 95-99%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This report remains property of STAT Analysis until payment is received in full (see invoice).

Analyzed by Name : 
Daniel Mikos / Microscopist

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Carnow, Conibear, & Associates
 600 W. Van Buren Street, Suite 500
 Chicago, IL 60607
 Phone: (312) 782-4486
 Fax: (312) 782-5145

Reference: E12834X006 Date Received: 03/19/2019
 Location: Legler Library 115 S Pulaski Date Analyzed: 03/21/2019
 Batch No.: 340816 Date Reported: 03/21/2019
 Customer No.: 141 Turn Around Time: 2 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
340816011	EC031919-11	ND	Cellulose 1-5% Binder 95-99%
340816012	EC031919-12	ND	Cellulose 1-5% Binder 95-99%
340816013	EC031919-13	ND	Cellulose 1-5% Binder 95-99%
340816014	EC031919-14	ND	Cellulose 1-5% Binder 95-99%
340816015	EC031919-15	ND	Cellulose 1-5% Binder 95-99%
340816016	EC031919-16	ND	Cellulose 1-5% Binder 95-99%
340816017	EC031919-17	ND	Cellulose 1-5% Binder 95-99%
340816018	EC031919-18	ND	Cellulose 1-5% Binder 95-99%
340816019	EC031919-19	ND	Cellulose 1-5% Binder 95-99%
340816020	EC031919-20	ND	Cellulose 1-5% Binder 95-99%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This report remains property of STAT Analysis until payment is received in full (see invoice).

Analyzed by Name : 
 Daniel Mikos / Microscopist

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Carnow, Conibear, & Associates
 600 W. Van Buren Street, Suite 500
 Chicago, IL 60607
 Phone: (312) 782-4486
 Fax: (312) 782-5145

Reference: E12834X006 Date Received: 03/19/2019
 Location: Legler Library 115 S Pulaski Date Analyzed: 03/21/2019
 Batch No.: 340816 Date Reported: 03/21/2019
 Customer No.: 141 Turn Around Time: 2 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
340816021	EC031919-21	ND	Cellulose 1-5% Binder 95-99%
340816022	EC031919-22	ND	Cellulose 1-5% Binder 95-99%
340816023	EC031919-23	ND	Cellulose 35-40% Binder 60-65%
340816024	EC031919-24	ND	Cellulose 35-40% Binder 60-65%
340816025	EC031919-25	ND	Cellulose 35-40% Binder 60-65%
340816026	EC031919-26	ND	Cellulose 1-5% Binder 95-99%
340816027	EC031919-27	ND	Cellulose 1-5% Binder 95-99%
340816028	EC031919-28	ND	Cellulose 1-5% Binder 95-99%
340816029	EC031919-29	ND	Cellulose 1-5% Binder 95-99%
340816030	EC031919-30	ND	Cellulose 1-5% Binder 95-99%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This report remains property of STAT Analysis until payment is received in full (see invoice).

Analyzed by Name : 
 Daniel Mikos / Microscopist

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Carnow, Conibear, & Associates
 600 W. Van Buren Street, Suite 500
 Chicago, IL 60607
 Phone: (312) 782-4486
 Fax: (312) 782-5145

Reference: E12834X006 Date Received: 03/19/2019
 Location: Legler Library 115 S Pulaski Date Analyzed: 03/21/2019
 Batch No.: 340816 Date Reported: 03/21/2019
 Customer No.: 141 Turn Around Time: 2 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
340816031	EC031919-31	ND	Cellulose 1-5% Binder 95-99%
340816032	EC031919-32	ND	Cellulose 1-5% Binder 95-99%
340816033	EC031919-33	ND	Cellulose 1-5% Binder 95-99%
340816034	EC031919-34	ND	Cellulose 1-5% Binder 95-99%
340816035	EC031919-35	ND	Cellulose 1-5% Binder 95-99%
340816036	EC031919-36	ND	Cellulose 1-5% Binder 95-99%
340816037	EC031919-37	ND	Cellulose 1-5% Binder 95-99%
340816038	EC031919-38	ND	Cellulose 10-15% Binder 85-90%
340816039	EC031919-39	ND	Cellulose 10-15% Binder 85-90%
340816040	EC031919-40	ND	Cellulose 10-15% Binder 85-90%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This report remains property of STAT Analysis until payment is received in full (see invoice).

Analyzed by Name : 
 Daniel Mikos / Microscopist

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Carnow, Conibear, & Associates
 600 W. Van Buren Street, Suite 500
 Chicago, IL 60607
 Phone: (312) 782-4486
 Fax: (312) 782-5145

Reference: E12834X006 Date Received: 03/19/2019
 Location: Legler Library 115 S Pulaski Date Analyzed: 03/21/2019
 Batch No.: 340816 Date Reported: 03/21/2019
 Customer No.: 141 Turn Around Time: 2 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
340816041	EC031919-41	ND	Cellulose 1-5% Binder 95-99%
340816042	EC031919-42	ND	Cellulose 1-5% Binder 95-99%
340816043	EC031919-43	ND	Cellulose 1-5% Binder 95-99%
340816044	EC031919-44	ND	Cellulose 10-15% Binder 85-90%
340816045	EC031919-45	ND	Cellulose 10-15% Binder 85-90%
340816046	EC031919-46	ND	Cellulose 10-15% Binder 85-90%
340816047	EC031919-47	ND	Cellulose 1-5% Binder 95-99%
340816048	EC031919-48	ND	Cellulose 1-5% Binder 95-99%
340816049	EC031919-49	ND	Cellulose 1-5% Binder 95-99%
340816050	EC031919-50	ND	Cellulose 35-40% Binder 60-65%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This report remains property of STAT Analysis until payment is received in full (see invoice).

Analyzed by Name : 

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Carnow, Conibear, & Associates
 600 W. Van Buren Street, Suite 500
 Chicago, IL 60607
 Phone: (312) 782-4486
 Fax: (312) 782-5145

Reference:	E12834X006	Date Received:	03/19/2019
Location:	Legler Library 115 S Pulaski	Date Analyzed:	03/21/2019
Batch No.:	340816	Date Reported:	03/21/2019
Customer No.:	141	Turn Around Time:	2 Days

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
340816051	EC031919-51	ND	Cellulose 35-40% Binder 60-56%
340816052	EC031919-52	ND	Cellulose 35-40% Binder 60-65%
340816053	EC031919-53	ND	Binder 95-99% Glass 1-5%
340816054	EC031919-54	ND	Binder 95-99% Glass 1-5%
340816055	EC031919-55	ND	Binder 95-99% Glass 1-5%
340816056	EC031919-56	ND	Binder 99-100%
340816057	EC031919-57	ND	Binder 99-100%
340816058	EC031919-58	ND	Binder 99-100%
340816059	EC031919-59	ND	Cellulose 1-5% Binder 95-99%
340816060	EC031919-60	ND	Cellulose 1-5% Binder 95-99%
340816061	EC031919-61	ND	Cellulose 1-5% Binder 95-99%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This report remains property of STAT Analysis until payment is received in full (see invoice).

Analyzed by Name : 

STAT Analysis Corporation

2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
 e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Page : 1 of 5

Client: Carnow Conibear	Turn Around: Immediate: <input type="checkbox"/> 4 Hrs: <input type="checkbox"/> 8 Hrs: <input type="checkbox"/> 24 Hrs: <input type="checkbox"/> 1 Day: <input type="checkbox"/> 2 Days: <input checked="" type="checkbox"/> 3 Days: <input type="checkbox"/> 5 Days: <input type="checkbox"/>
Street Address: 600 W. Van Buren St. Suite 500	Date Due: _____ Time Due: _____ Note: Not all turn around times are available for all analysis.
City, State, Zip: Chicago, IL 60607	OFFICE USE ONLY BELOW
Phone: 312-296-1287	
Fax: _____	Relinquished by: <i>[Signature]</i> Date/Time: 3/19/19 11:05
e-mail/Alt. Fax: _____	Batch No.: 340816 Received by: <i>[Signature]</i> Date/Time: 3/19/19 11:05
Project Number: E12834X006	Samples Acceptable: Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Project Name: Legler Library	Checked by (Initial/Date): <i>[Signature]</i> 3/19/19
Project Location: 115 S. Pulaski	QC by (Initial/Date): <i>[Signature]</i> 3/19/19
Project Manager: Evan Christian	Reported By (Initial/Date/Time/Method): _____
P.O. Number: _____	Comments: _____

Client Sample Number/Description:	Date Taken	Time		Rate (lpm)	Volume (Liters)	Area Wiped (ft ²)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water	Other:
		On	Off														
EC031919-																	
+01 Hand Coat Plaster	2nd Fl. 227																
+02	2nd Fl. Electrical																
+03	2nd Fl. Janitor																
+04	2nd Fl. 220																
+05	107																
+06	Stacks																
+07 ↓	Basement Meet Rm																
+08 Tan Carpet Glue	227																
+09 ↓ (Broadloom)	227																
+10 ↓	Stacks																
+11 Tan Carpet Glue	Media																
+12 Gray leveling	Media																
+13 V (Carpet Tile)	Stacks																

Comments: email results to echristian@ccltd.com

STAT Analysis Corporation

2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
 e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Client: Carnow Conibear	Turn Around: Immediate: <input type="checkbox"/> 4 Hrs: <input type="checkbox"/> 8 Hrs: <input type="checkbox"/> 24 Hrs: <input type="checkbox"/> 1 Day: <input type="checkbox"/> 2 Days: <input checked="" type="checkbox"/> 3 Days: <input type="checkbox"/> 5 Days: <input type="checkbox"/>
Street Address: 600 W. Van Buren St. Suite 500	Date Due: _____ Time Due: _____ Note: Not all turn around times are available for all analysis.
City, State, Zip: Chicago, IL 60607	OFFICE USE ONLY BELOW:
Phone: 312-296-1287	
Fax: _____	Batch No.: 340810
e-mail/Alt. Fax: _____	Samples Acceptable: Yes: <input type="checkbox"/> No: <input type="checkbox"/>
Project Number: <u>E12834X006</u>	Checked by (Initial/Date): _____
Project Name: <u>Legler Library</u>	QC by (Initial/Date): _____
Project Location: <u>115 S. Aulasiki</u>	Reported By (Initial/Date/Time/Method): _____
Project Manager: <u>Erin Christian</u>	Comments: _____
P.O. Number: _____	Relinquished by: <u>[Signature]</u> Date/Time: <u>8/19/19 11:05</u>
	Received by: <u>[Signature]</u> Date/Time: <u>8/19/19 11:05</u>
	Relinquished by: _____ Date/Time: _____
	Received by: _____ Date/Time: _____
	Relinquished by: _____ Date/Time: _____
	Received by: _____ Date/Time: _____

Client Sample Number/Description:	Date Taken	Time		Rate (lpm)	Volume (Liters)	Area Wiped (ft ²)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb	TEM Microvac Asb.	TEM Water	Other:
		On	Off														
<u>EC031919-</u>																	
<u>-14 White Interior 227</u>																	
<u>-15 Window Caulk 227</u>																	
<u>-16 V Media</u>																	
<u>-17 12x12 Pink Mottled 228</u>																	
<u>-18 Floor Tile</u>																	
<u>-19 V</u>																	
<u>-20 Tan Glue on</u>																	
<u>-21 Floor Tile</u>																	
<u>-22 V</u>																	
<u>-23 2x4 Ceiling Tiles 225</u>																	
<u>-24 Segmented w/</u>																	
<u>-25 V Gouges + Pinholes</u>																	

Comments: email results to echristian@ccltd.com

STAT Analysis Corporation

2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
 e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Page: 3 of 9

Client: Carnow Conibear	Turn Around: Immediate: <input type="checkbox"/> 4 Hrs: <input type="checkbox"/> 8 Hrs: <input type="checkbox"/> 24 Hrs: <input type="checkbox"/> 1 Day: <input type="checkbox"/> 2 Days: <input checked="" type="checkbox"/> 3 Days: <input type="checkbox"/> 5 Days: <input type="checkbox"/>
Street Address: 600 W. Van Buren St. Suite 500	Date Due: _____ Time Due: _____ Note: Not all turn around times are available for all analysis.
City, State, Zip: Chicago, IL 60607	OFFICE USE ONLY BELOW:
Phone: 312-296-1287	
Fax: _____	Batch No.: 340816
e-mail/Alt. Fax: _____	Samples Acceptable: Yes: <input type="checkbox"/> No: <input type="checkbox"/>
Project Number: <u>E12834X006</u>	Checked by (Initial/Date): _____
Project Name: <u>Legler Library</u>	QC by (Initial/Date): _____
Project Location: <u>115. S. Pulaski</u>	Reported By (Initial/Date/Time/Method): _____
Project Manager: <u>Evan Christian</u>	Comments: _____
P.O. Number: _____	Relinquished by: <u>Evan Christian</u> Date/Time: <u>3/19/19 11:05</u>
	Received by: <u>[Signature]</u> Date/Time: <u>3/19/19 11:05</u>
	Relinquished by: _____ Date/Time: _____
	Received by: _____ Date/Time: _____
	Relinquished by: _____ Date/Time: _____
	Received by: _____ Date/Time: _____

Client Sample Number/Description	Date Taken	Time		Rate (lpm)	Volume (Liters)	Area Wiped (ft ²)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water	Other:
		On	Off														
EC031919-																	
-26 12x12 Gray Floor Tile																	
-27 -small black specks																	
-28 ↓ glue storage																	
-29 ↑ glue on																	
-30 Floor Tile																	
-31 ↓																	
-32 12x12 Brown + Tan Air																	
-33 Mottled Floor Tile Air																	
-34 ↓ Basement																	
-35 ↑ Tan Glue on Floor Tile																	
-36 ↓																	
-37 ↓																	

Comments: email results to echristian@caltld.com

STAT Analysis Corporation

2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
 e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Page: 4 of 5

Client: Carnow Conibear Street Address: 600 W. Van Buren St. Suite 500 City, State, Zip: Chicago, IL 60607 Phone: 312-296-1287 Fax: e-mail/Alt. Fax: Project Number: <u>E12834X006</u> Project Name: <u>Legler Library</u> Project Location: <u>115. S. Pulaski</u> Project Manager: <u>Emm Christian</u> P.O. Number:	Turn Around: Immediate: <input type="checkbox"/> 4 Hrs: <input type="checkbox"/> 8 Hrs: <input type="checkbox"/> 24 Hrs: <input type="checkbox"/> 1 Day: <input type="checkbox"/> 2 Days: <input checked="" type="checkbox"/> 3 Days: <input type="checkbox"/> 5 Days: <input type="checkbox"/> Date Due: _____ Time Due: _____ Note: Not all turn around times are available for all analysis. OFFICE USE ONLY BELOW: Relinquished by: <u>Emm Christian</u> Date/Time: <u>3/19/19 11:05</u> Received by: _____ Date/Time: <u>3/19/19 11:05</u> Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Batch No.: <u>340816</u> Samples Acceptable: Yes: <input type="checkbox"/> No: <input type="checkbox"/> Checked by (Initial/Date): _____ QC by (Initial/Date): _____ Reported By (Initial/Date/Time/Method): _____ Comments: _____
--	---

Client Sample Number/Description:	Date Taken	Time		Rate (lpm)	Volume (Liters)	Area Wiped (ft ²)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water	Other:
		On	Off														
<u>ECO31919 -</u>																	
<u>38 Drywall Media</u>																	
<u>39 Music</u>																	
<u>40 ↓ 225</u>																	
<u>41 Drywall Joint Compound 225</u>																	
<u>42 ↓ Compound 2nd Fl. N Room</u>																	
<u>43 ↓ Music</u>																	
<u>44 Gray Sink Underneath Art</u>																	
<u>45 ↓</u>																	
<u>46 ↓</u>																	
<u>47 Tan Blue below</u>																	
<u>48 ↓ Acoustical Panels</u>																	
<u>49 ↓</u>																	

Comments: email results to echristian@calttd.com

STAT Analysis Corporation

2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
 e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Page: 5 of 5

Client: Carnow Conibear Street Address: 600 W. Van Buren St. Suite 500 City, State, Zip: Chicago, IL 60607 Phone: 312-296-1287 Fax: e-mail/Alt. Fax:	Turn Around: Immediate: <input type="checkbox"/> 4 Hrs: <input type="checkbox"/> 8 Hrs: <input type="checkbox"/> 24 Hrs: <input type="checkbox"/> 1 Day: <input type="checkbox"/> 2 Days: <input checked="" type="checkbox"/> 3 Days: <input type="checkbox"/> 5 Days: <input type="checkbox"/>	Date Due: _____ Time Due: _____ Note: Not all turn around times are available for all analysis.																																																																																																																																																																																																																																																								
Project Number: <u>E12834X000</u> Project Name: <u>Legler Library</u> Project Location: <u>115. S. Pulaski</u> Project Manager: <u>Erin Christian</u> P.O. Number:	Batch No.: 340810 Samples Acceptable: Yes: <input type="checkbox"/> No: <input type="checkbox"/> Checked by (Initial/Date): _____ QC by (Initial/Date): _____ Reported By (Initial/Date/Time/Method): _____ Comments:	Relinquished by: <u>Erin Christian</u> Date/Time: <u>3/19/19 11:05</u> Received by: <u>[Signature]</u> Date/Time: <u>3/19/19 11:05</u> Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____ Relinquished by: _____ Date/Time: _____ Received by: _____ Date/Time: _____																																																																																																																																																																																																																																																								
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Client Sample Number/Description:</th> <th rowspan="2">Date Taken</th> <th colspan="2">Time</th> <th rowspan="2">Rate (lpm)</th> <th rowspan="2">Volume (Liters)</th> <th rowspan="2">Area Wiped (ft²)</th> <th rowspan="2">Laboratory Sample No.</th> <th rowspan="2">PCM Asbestos</th> <th rowspan="2">PLM Asbestos (Bulk)</th> <th rowspan="2">PLM Point Count</th> <th rowspan="2">PLM Gravimetric</th> <th rowspan="2">TEM Air Asbestos</th> <th rowspan="2">TEM Bulk Asbestos</th> <th rowspan="2">TEM Gravimetric Asb.</th> <th rowspan="2">TEM Microvac Asb.</th> <th rowspan="2">TEM Water</th> <th rowspan="2">Other:</th> </tr> <tr> <th>On</th> <th>Off</th> </tr> </thead> <tbody> <tr><td>-50 2x4 fissures + Basement</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-51 Pinholes</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-52 V</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-53 Red Fire Strip</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-54 V</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-55 V</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-56 4" Black Baseboard</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-57 V</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-58 V</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-59 Turn Glue behind</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-60 Baseboard</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>-61 V</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Client Sample Number/Description:	Date Taken	Time		Rate (lpm)	Volume (Liters)	Area Wiped (ft ²)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water	Other:	On	Off	-50 2x4 fissures + Basement																			-51 Pinholes																			-52 V																			-53 Red Fire Strip																			-54 V																			-55 V																			-56 4" Black Baseboard																			-57 V																			-58 V																			-59 Turn Glue behind																			-60 Baseboard																			-61 V																				
Client Sample Number/Description:			Date Taken	Time															Rate (lpm)	Volume (Liters)	Area Wiped (ft ²)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water	Other:																																																																																																																																																																																																																										
	On	Off																																																																																																																																																																																																																																																								
-50 2x4 fissures + Basement																																																																																																																																																																																																																																																										
-51 Pinholes																																																																																																																																																																																																																																																										
-52 V																																																																																																																																																																																																																																																										
-53 Red Fire Strip																																																																																																																																																																																																																																																										
-54 V																																																																																																																																																																																																																																																										
-55 V																																																																																																																																																																																																																																																										
-56 4" Black Baseboard																																																																																																																																																																																																																																																										
-57 V																																																																																																																																																																																																																																																										
-58 V																																																																																																																																																																																																																																																										
-59 Turn Glue behind																																																																																																																																																																																																																																																										
-60 Baseboard																																																																																																																																																																																																																																																										
-61 V																																																																																																																																																																																																																																																										

Comments: email results to echristian@caltld.com

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Carnow, Conibear, & Associates
 600 W. Van Buren Street, Suite 500
 Chicago, IL 60607
 Phone: (312) 782-4486
 Fax: (312) 782-5145

Reference:	E12834X006	Date Received:	10/03/2019
Location:	Legler Library 115 N Pulaski	Date Analyzed:	10/04/2019
Batch No.:	344322	Date Reported:	10/04/2019
Customer No.:	141	Turn Around Time:	1 Day

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
344322001	EC100319-01	ND	Cellulose 10-15% Binder 85-90%
344322002	EC100319-02	ND	Cellulose 10-15% Binder 85-90%
344322003	EC100319-03	ND	Cellulose 10-15% Binder 85-90%
344322004	EC100319-04	ND	Cellulose 1-5% Binder 95-99%
344322005	EC100319-05	ND	Cellulose 1-5% Binder 95-99%
344322006	EC100319-06	ND	Cellulose 1-5% Binder 95-99%
344322007	EC100319-07	ND	Cellulose 1-5% Binder 95-99%
344322008	EC100319-08	ND	Cellulose 1-5% Binder 95-99%
344322009	EC100319-09	ND	Cellulose 1-5% Binder 95-99%
344322010	EC100319-10	ND	Cellulose 10-15% Binder 85-90%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This report remains property of STAT Analysis until payment is received in full (see invoice).

Analyzed by Name :


 Daniel Mikos / Microscopist

ASBESTOS ANALYSIS BY POLARIZED LIGHT MICROSCOPY

Method: EPA/600/R-93/116

Carnow, Conibear, & Associates
 600 W. Van Buren Street, Suite 500
 Chicago, IL 60607
 Phone: (312) 782-4486
 Fax: (312) 782-5145

Reference:	E12834X006	Date Received:	10/03/2019
Location:	Legler Library 115 N Pulaski	Date Analyzed:	10/04/2019
Batch No.:	344322	Date Reported:	10/04/2019
Customer No.:	141	Turn Around Time:	1 Day

Laboratory Sample	Customer Sample Number	Asbestos Components (%)	Non-Asbestos Components (%)
344322011	EC100319-11	ND	Cellulose 10-15% Binder 85-90%
344322012	EC100319-12	ND	Cellulose 10-15% Binder 85-90%
344322013	EC100319-13	ND	Cellulose 10-15% Binder 85-90%
344322014	EC100319-14	ND	Cellulose 10-15% Binder 85-90%
344322015	EC100319-15	ND	Cellulose 10-15% Binder 85-90%
344322016	EC100319-16	ND	Cellulose 10-15% Binder 85-90%
344322017	EC100319-17	ND	Cellulose 10-15% Binder 85-90%
344322018	EC100319-18	ND	Cellulose 10-15% Binder 85-90%
344322019	EC100319-19	Chrysotile 10-15%	Binder 85-90%
344322020	EC100319-20	Chrysotile 10-15%	Binder 85-90%
344322021	EC100319-21	Chrysotile 10-15%	Binder 85-90%

ND = Asbestos Not Detected (Not Present) NA = Not Analyzed NS = Not Submitted

Components of inhomogeneous samples are analyzed per our Standard Operating Procedure, or per customer request.

The use of the NVLAP logo does not imply endorsement by NVLAP or any agency of the US Government.

The information contained in this report and any attachments is confidential information intended only for the use of the individual or entities named above. The results of this report relate only to the samples tested. If you have received this report in error, please notify us immediately by phone. This report shall not be reproduced, except in its entirety, unless written approval has been obtained from the laboratory. This report remains property of STAT Analysis until payment is received in full (see invoice).

Analyzed by Name : 
 Daniel Mikos / Microscopist

STAT Analysis Corporation

2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
 e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Page: 1 of 2

Client: Carnow Conibear	Turn Around: Immediate: <input type="checkbox"/> 4 Hrs: <input type="checkbox"/> 8 Hrs: <input type="checkbox"/> 24 Hrs: <input type="checkbox"/> 1 Day: <input checked="" type="checkbox"/> 2 Days: <input type="checkbox"/> 3 Days: <input type="checkbox"/> 5 Days: <input type="checkbox"/>
Street Address: 600 W. Van Buren Suite 500	Date Due: _____ Time Due: _____ Note: Not all turn around times are available for all analysis.
City, State, Zip: Chicago, IL 60607	OFFICE USE ONLY BELOW:
Phone: 312-762-2900	
Fax: 312-782-5145	Relinquished by: <u>Evan Christian</u> Date/Time: <u>10/3/19 10:50</u>
e-mail/Alt. Fax: _____	Batch No.: <u>344322</u> Received by: <u>[Signature]</u> Date/Time: <u>10/3/19 10:50</u>
Project Number: <u>E12834X006</u>	Samples Acceptable: Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Project Name: <u>Legler Library</u>	Checked by (Initial/Date): <u>[Signature] 10/4/19</u>
Project Location: <u>115 W. Polaski</u>	QC by (Initial/Date): <u>[Signature] 10/4/19</u>
Project Manager: <u>Evan Christian</u>	Reported By (Initial/Date/Time/Method): _____
P.O. Number: _____	Comments: _____

Client Sample Number/Description:	Date Taken	Time		Rate (lpm)	Volume (Liters)	Area Wiped (ft ²)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water	Other:
		On	Off														
-01 Black Door Caulk 018	10/3/19								X								
-02 ↓	↓																
-03 ↓	↓																
-04 White Interior 021																	
-05 Window Caulk 022																	
-06 ↓	022																
-07 White Interior 211																	
-08 Window Caulk ↓																	
-09 ↓	↓																
-10 Black Residual 006																	
-11 Mastic 007																	
-12 ↓	007 ↓																

Comments: Email results to echristian@ccaltd.com

STAT Analysis Corporation

2242 W. Harrison, Suite 200, Chicago, Illinois 60612 Phone: (312) 733-0551 Fax: (312) 733-2386
e-mail address: STATinfo@STATAnalysis.com

CHAIN OF CUSTODY RECORD

Page : 2 of 2

Client: Carnow Conibear	Turn Around: Immediate: <input type="checkbox"/> 4 Hrs: <input type="checkbox"/> 8 Hrs: <input type="checkbox"/> 24 Hrs: <input type="checkbox"/> 1 Day: <input checked="" type="checkbox"/> 2 Days: <input type="checkbox"/> 3 Days: <input type="checkbox"/> 5 Days: <input type="checkbox"/>
Street Address: 600 W. Van Buren Suite 500	Date Due: _____ Time Due: _____ Note: Not all turn around times are available for all analysis.
City, State, Zip: Chicago, IL 60607	OFFICE USE ONLY BELOW:
Phone: 312-762-2900	
Fax: 312-782-5145	Batch No.: 344322
e-mail/Alt. Fax: _____	Samples Acceptable: Yes: <input type="checkbox"/> No: <input type="checkbox"/>
Project Number: E12834X006	Checked by (Initial/Date): _____
Project Name: Legler Library	QC by (Initial/Date): _____
Project Location: 115 W. Polaski	Reported By (Initial/Date/Time/Method): _____
Project Manager: Evan Christian	Comments: _____
P.O. Number: _____	Relinquished by: <i>Evan Christian</i> Date/Time: 10/2/19 10:50
	Received by: <i>[Signature]</i> Date/Time: 10/3/19 10:50
	Relinquished by: _____ Date/Time: _____
	Received by: _____ Date/Time: _____
	Relinquished by: _____ Date/Time: _____
	Received by: _____ Date/Time: _____

Client Sample Number/Description:	Date Taken	Time		Rate (lpm)	Volume (Liters)	Area Wiped (ft ²)	Laboratory Sample No.	PCM Asbestos	PLM Asbestos (Bulk)	PLM Point Count	PLM Gravimetric	TEM Air Asbestos	TEM Bulk Asbestos	TEM Gravimetric Asb.	TEM Microvac Asb.	TEM Water	Other:
		On	Off														
EC100319-																	
-13 Vapor barrier	209	10/3/19							X								
-14 beneath plywood																	
-15 subfloor																	
+16 Red Flooring	211																
-17 Material beneath																	
-18 subfloor																	
-19 Pendant Light Mezz.																	
-20 Wiring																	
-21																	

Comments: Email results to echristian@ccaltd.com

APPENDIX D

Lead-Based Paint Field Data Sheets



XRF CALIBRATION CHECK TEST RESULTS

Client: PBC Date: 7/25/19

Address: Legler Regional Library - 115 Pulaski

XRF Serial #: 2295

XRF Instrument: Heuresis Pb200i

Inspector/License #: Erin Chuzhik 1002004

XRF Unit File #:

Calibration Check Tolerance Used: +/- 0.2 mg/cm² on 1. mg/cm² Heuresis Standard

Time Corrected Mode – Duration of Test is seconds long

CALIBRATION CHECK (Bare Wood)

Calibration Time	1st Reading	2nd Reading	3rd Reading	Average Reading	Difference From Average & 0.0 mg/cm ²	Acceptable Yes/No
<u>7:45am</u>	<u>-0.2</u>	<u>-0.1</u>	<u>-0.1</u>	<u>-0.13</u>		<u>Yes</u>

CALIBRATION CHECK (Painted)

Calibration Time	1st Reading	2nd Reading	3rd Reading	Average Reading	Difference Between Average & 0.0 mg/cm ²	Acceptable Yes/No
<u>7:47 AM</u>	<u>0.8</u>	<u>0.9</u>	<u>1.0</u>	<u>0.9</u>		<u>Yes</u>

CALIBRATION CHECK (Painted)

Calibration Time	1st Reading	2nd Reading	3rd Reading	Average Reading	Difference Between Average & 0.0 mg/cm ²	Acceptable Yes/No
<u>1:30 PM</u>	<u>0.9</u>	<u>1.1</u>	<u>0.8</u>	<u>0.7</u>		<u>Yes</u>

CALIBRATION CHECK ()

Calibration Time	1st Reading	2nd Reading	3rd Reading	Average Reading	Difference Between Average & 0.0 mg/cm ²	Acceptable Yes/No

Lead Based Paint XRF Data Sheet

Client: PBC Building Address: 115 S. Pulaski City: Chicago Inspection Date: 7/25/17
 Area Description: 2nd Floor State: IL Inspector: EC License #: 1002004

XRF Serial #: 2295 XRF Instrument: RMD LPA-1 XRF Unit /File #: _____ Inspector's Signature: [Signature]

XRF Test Shot #	Test Location	Component	Substrate	Color	Condition Assessment Deterioration Present?	Estimated Damage	XRF Reading mg/cm ²	Classification P=Positive >1.0 N=Negative <1.0
7	Stairwell to Roof-221	N. Wall	Plaster	White	Y		0.1	P (N)
8		E. Wall			Y		0.1	P
9		S. Wall			Y		0.1	P
10		W. Wall			Y		0.2	P
11		Ceiling			Y		0.1	P
12	Corridor 225	N. Wall	Drywall		Y		0.2	P
13		E. Wall			Y		0.6	P
14		S. Wall			Y		0.3	P
15		W. Wall			Y		0.1	P
16		Recessed Ceiling	Plaster		Y		0.1	P
17	Room 227	N. Wall	Plaster	White	Y		0.5	P
18		E. Wall			Y		0.4	P
19		S. Wall			Y		0.3	P
20		W. Wall			Y		0.4	P
21		Ceiling			Y		0.8	P
22	Lobby 201	N. Wall	Concrete	White	Y		10.0	P
23		E. Wall			Y		7.0	P
24		S. Wall			Y		4.0	P
25		W. Wall			Y		3.0	P
26		Column			Y		7.0	P
27	Room 217	N. Wall	Drywall	White	Y		0.4	P
28		E. Wall	Plaster		Y		0.4	P
29		S. Wall	Drywall		Y		0.3	P
30		W. Wall	Drywall		Y		0.1	P
31		Ceiling	Plaster		Y		0.7	P



Lead Based Paint XRF Data Sheet

Client: PBC Building Address: 115. S. Pulaski City: Chicago Inspection Date: 7/25/19
 Area Description: 2nd Floor State: IL Inspector: EC License #: 1002007
 XRF Serial #: 2295 XRF Instrument: RMD LPA-1 XRF Unit /File #: _____ Inspector's Signature: [Signature]

XRF Test Shot #	Test Location	Component	Substrate	Color	Condition Assessment Deterioration Present?	Estimated Damage	XRF Reading mg/cm ²	Classification P=Positive ≥1.0 N=Negative <1.0
32	Room 214	N. Wall	Drywall	White	Y N		0.4	P (N)
33		E. Wall	Plaster		Y N		0.2	P
34		S. Wall	Drywall		Y N		0.3	P
35		W. Wall	Drywall		Y N		0.5	P
36		Ceiling	Plaster		Y N		0.7	P
37	Room 210	Display Platform	Orange Drywall	Orange	Y N		0.2	P
38		E. Wall		White	Y N		0.3	P
39		S. Wall			Y N		0.2	P
40		W. Wall			Y N		0.1	P
41		Ceiling			Y N		0.6	P
42	Room 209	N. Wall	Plaster	Yellow	Y N		0.1	P
43		E. Wall	Drywall		Y N		0.1	P
44		W. Wall	Drywall		Y N		0.2	P
45		Ceiling	Ceiling		Y N		0.3	P
46		Door Frame	Metal	Black	Y N		0.4	P
47	Room 211	N. Wall	Plaster	White	Y N		0.1	P
48		E. Wall			Y N		0.1	P
49		S. Wall	Drywall		Y N		0.2	P
50		W. Wall			Y N		—	P
51		Door Frame	Metal	Black	Y N		0.3	P
52	Room 206	N. Wall	Plaster	Beige	Y N		0.2	P
53		E. Wall			Y N		0.3	P
54		S. Wall			Y N		0.4	P
55		W. Wall			Y N		0.1	P
56	Storage	Storage	Drywall	Orange	Y N		0.2	P



Lead Based Paint XRF Data Sheet

Client: PBC Building Address: 115 S. Polaski City: Chicago Inspection Date: 7/25/19
 Area Description: 1st Floor State: IL Inspector: EC License #: 1002004
 XRF Serial #: 2295 XRF Instrument: RMD LPA-1 XRF Unit /File #: _____ Inspector's Signature: [Signature]

XRF Test Shot #	Test Location	Component	Substrate	Color	Condition Assessment Deterioration Present?	Estimated Damage	XRF Reading mg/cm ²	Classification P=Positive ≥1.0 N=Negative <1.0
57	Elevator	Door	Metal	White	Y		0.1	P
58	↓	N.Wall	Metal	Purple	Y		0.2	P
59	↓	E.Wall	↓	↓	Y		0.3	P
60	↓	S.Wall	↓	↓	Y		0.1	P
61	↓	W.Wall	↓	↓	Y		0.7	P
62	Room 116	N.Wall	Plaster	White	Y		0.1	P
63	↓	E.Wall	↓	↓	Y		0.2	P
64	↓	S.Wall	↓	↓	Y		0.7	P
65	↓	W.Wall	↓	↓	Y		0.3	P
66	↓	Ceiling	↓	↓	Y		0.7	P
67	Room 119	N.Wall	Plaster	White	Y		0.3	P
68	↓	E.Wall	↓	↓	Y		0.2	P
69	↓	S.Wall	↓	↓	Y		0.4	P
70	↓	W.Wall	↓	↓	Y		0.5	P
71	Room 107	N.Wall	Plaster	White	Y		0.4	P
72	↓	E.Wall	↓	↓	Y		0.3	P
73	↓	S.Wall	↓	↓	Y		0.2	P
74	↓	W.Wall	↓	↓	Y		0.2	P
75	Room 108	N.Wall	Plaster	White	Y		0.1	P
76	↓	E.Wall	↓	↓	Y		0.3	P
77	↓	S.Wall	↓	↓	Y		0.4	P
78	↓	W.Wall	↓	↓	Y		0.1	P
79	Stack 115	Cast Iron Bookcase	Metal	White	Y		5.8	P
					Y			P
					Y			P



Client: PBC Building Address: 115 S. Polaski City: Chicago Inspection Date: 7/25/19 Page 9 of 6
 Area Description: 1st Floor, Basement State: IL Inspector: EC License #: 10020094
 XRF Serial #: 2295 XRF Instrument: RMD LPA-1 XRF Unit/File #: _____ Inspector's Signature: [Signature]

XRF Test Shot #	Test Location	Component	Substrate	Color	Condition Assessment Deterioration Present?	Estimated Damage	XRF Reading mg/cm ²	Classification P=Positive ≥1.0 N=Negative <1.0
80	Room 111	N. Wall	Drywall	White	Y		0.1	P
81	↓	E. Wall	↓	↓	Y		0.2	P
82	↓	S. Wall	↓	↓	Y		0.2	P
83	↓	W. Wall	↓	↓	Y		0.5	P
84	Men's 109	N. Wall	CMU	White	Y		0.2	P
85	↓	E. Wall	↓	↓	Y		0.3	P
86	↓	S. Wall	↓	↓	Y		0.4	P
87	↓	W. Wall	↓	↓	Y		0.5	P
88	Room 114	N. Wall	Drywall	White	Y		0.1	P
89	↓	E. Wall	Plaster	↓	Y		0.3	P
90	↓	S. Wall	↓	↓	Y		0.4	P
91	↓	W. Wall	↓	↓	Y		0.1	P
92	↓	Ceiling	↓	↓	Y		0.4	P
93	Stair 121	N. Wall	Plaster	White	Y		0.1	P
94	↓	E. Wall	↓	↓	Y		0.5	P
95	↓	S. Wall	↓	↓	Y		0.6	P
96	↓	W. Wall	↓	↓	Y		0.2	P
97	Room 007	N. Wall	Plaster	White	Y		10.0	P
98	↓	E. Wall	↓	↓	Y		14.0	P
99	↓	W. Wall	↓	↓	Y		8.0	P
100	↓	S. Wall	↓	↓	Y		4.0	P
101	Basement Corridor	Ceiling	↓	↓	Y		0.1	P
102	↓	Duct	Metal	White	Y		0.3	P
103	↓	↓	↓	Berye	Y		0.4	P
104					Y			P

Area Description: Basement State: IL Inspector: EC License #: 1002004

XRF Serial #: 2295 XRF Instrument: RMD LPA-1 XRF Unit/File #: _____ Inspector's Signature: [Signature]

XRF Test Shot #	Test Location	Component	Substrate	Color	Condition Assessment Deterioration Present?	Estimated Damage	XRF Reading mg/cm ²	Classification P=Positive ≥1.0 N=Negative <1.0
101	Locker Room 005	N. Wall	CMU	White	Y		0.1	P
105	↓	E. Wall	↓	↓	Y		0.2	P
106	↓	S. Wall	↓	↓	Y		0.1	P
107	↓	W. Wall	↓	↓	Y		0.4	P
108	↓	Ceiling	Drywall	↓	Y		0.1	P
109	Staff Lounge 006	N. Wall	CMU	White	Y		0.2	P
110	↓	E. Wall	Drywall	↓	Y		0.3	P
111	↓	S. Wall	Plaster	↓	Y		0.1	P
112	↓	W. Wall	↓	↓	Y		0.4	P
113	Men's 003	N. Wall	CMU	White	Y		0.1	P
114	↓	E. Wall	↓	↓	Y		0.3	P
115	↓	S. Wall	↓	↓	Y		0.6	P
116	↓	W. Wall	↓	↓	Y		0.6	P
117	↓	Ceiling	Drywall	↓	Y		0.1	P
118	Women's 035	N. Wall	CMU	White	Y		0.2	P
119	↓	E. Wall	↓	↓	Y		0.3	P
120	↓	S. Wall	↓	↓	Y		0.1	P
121	↓	W. Wall	↓	↓	Y		0.2	P
122	↓	Ceiling	Drywall	↓	Y		0.4	P
123	Basement Corridor	N. Wall	Brick	White	Y		0.3	P
124	↓	E. Wall	CMU	↓	Y		0.1	P
125	↓	S. Wall	Plaster	↓	Y		0.1	P
126	↓	W. Wall	CMU	↓	Y		0.3	P
127	↓	Ceiling	Plaster	↓	Y		0.4	P
					Y			P
					N			N





XRF CALIBRATION CHECK TEST RESULTS

Client: PBC Date: 12/3/19

Address: Legler Regional Library - 115 Pulaski

XRF Serial #: 2295

XRF Instrument: Heuresis Pb200i

Inspector/License #: Evan Christian 1002004

XRF Unit File #:

Calibration Check Tolerance Used: +/- 0.2 mg/cm² on 1. mg/cm² Heuresis Standard

Time Corrected Mode – Duration of Test is seconds long

CALIBRATION CHECK (Bare Wood)

Calibration Time	1st Reading	2nd Reading	3rd Reading	Average Reading	Difference From Average & 0.0 mg/cm ²	Acceptable Yes/No
8:35 AM	-0.0	-0.1	-0.1	-0.07		Yes

CALIBRATION CHECK (Painted)

Calibration Time	1st Reading	2nd Reading	3rd Reading	Average Reading	Difference Between Average & 0.0 mg/cm ²	Acceptable Yes/No
8:37 AM	0.9	0.9	1.0	0.93		Yes

CALIBRATION CHECK (Painted)

Calibration Time	1st Reading	2nd Reading	3rd Reading	Average Reading	Difference Between Average & 0.0 mg/cm ²	Acceptable Yes/No
9:10 AM	0.9	1.0	0.9	0.93		Yes

CALIBRATION CHECK ()

Calibration Time	1st Reading	2nd Reading	3rd Reading	Average Reading	Difference Between Average & 0.0 mg/cm ²	Acceptable Yes/No

APPENDIX E

Photographic Documentation

Legler Regional Library
115 S. Pulaski Road, Chicago, IL 60624



Sample ID:
EC031919-23 thru 25

Location:
Receiving Room 119, Corridor 120,
Stack Area, Office Spaces, Corridor 225

Sample Description:
2'x4' Suspended Ceiling Tile –
Segmented Gouges and Pinholes



Sample ID:
EC031919-14 thru 16

Location:
Windows Throughout

Sample Description:
White Interior Window Caulk

Legler Regional Library
115 S. Pulaski Road, Chicago, IL 60624



Sample ID:
EC031919-17 thru 19; EC031919-20 thru 22

Location:
Corridor 225

Sample Description:
12"x12" Pink Mottled
Floor Tile and associated Glue



Sample ID:
EC031919-32 thru 34; EC031919-35 thru 37

Location:
Basement Corridor, Staff Lounge 006,
Meeting Room 007, Basement Corridor 019,
Receiving 119, Corridor 120, Closet 104, Lab
209

Sample Description:
12"x12" Brown and Tan Mottled Floor Tile
and associated Glue

Legler Regional Library
115 S. Pulaski Road, Chicago, IL 60624



Sample ID:
EC031919-50 thru 52

Location:
Work Room 001, Meeting Room 007, Staff
Lounge 006

Sample Description:
2'x4' Suspended Ceiling Tile – Pinholes



Sample ID:
EC072519-13 thru 15

Location:
Penthouse/Mezzanine Glass

Sample Description:
Cement Plaster

Legler Regional Library
115 S. Pulaski Road, Chicago, IL 60624



Sample ID:
EC072519-07 thru 09

Location:
Main Roof

Sample Description:
Black/Gray Roof Sealant



Sample ID:
EC072519-04 thru 06

Location:
Main Roof

Sample Description:
Roof Flashing

Legler Regional Library
115 S. Pulaski Road, Chicago, IL 60624



Sample ID:
EC072519- 01 thru 03

Location:
Main Roof

Sample Description:
Asphalt Roof Field

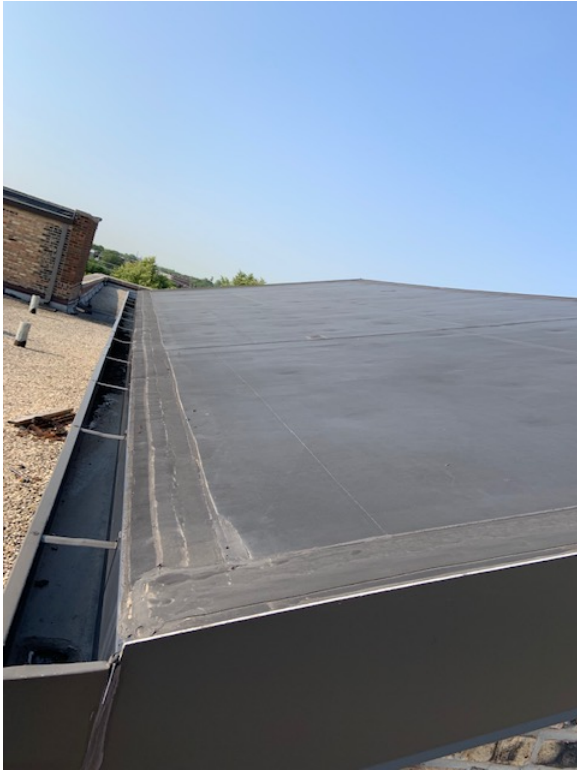


Sample ID:
EC072519-16 thru 19

Location:
Main Roof

Sample Description:
White/Gray Parapet Sealant

Legler Regional Library
115 S. Pulaski Road, Chicago, IL 60624



Sample ID:
EC072519-10 thru 12

Location:
Penthouse Roof, Walkout Roofs

Sample Description:
Membrane Roof Insulation



Sample ID:
EC031919-01 thru 07

Location:
Original Walls and Ceilings Throughout

Sample Description:
Hard Coat Plaster

Legler Regional Library
115 S. Pulaski Road, Chicago, IL 60624



Sample ID:
EC031919-08 thru 10

Location:
108, 111, 114, Stack 113, 227

Sample Description:
Tan Carpet (Broadloom) Glue



Sample ID:
EC031919-44 thru 46

Location:
Room 209

Sample Description:
Gray Sink Undercoating

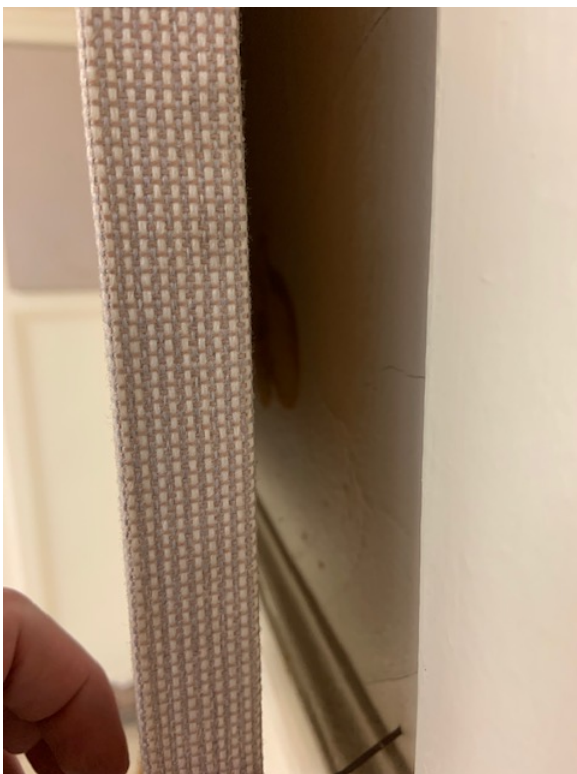
Legler Regional Library
115 S. Pulaski Road, Chicago, IL 60624



Sample ID:
EC031919-26 thru 28;
EC031919-20 thru 22

Location:
Closets 212, 213, 215; Storage
220

Sample Description:
12"x12" Gray Floor Tile w/ Small
Black Specks and associated
Glue



Sample ID:
EC031919-47 thru 49

Location:
Meeting Room 007

Sample Description:
Tan Glue behind
Acoustical Panels

Legler Regional Library
115 S. Pulaski Road, Chicago, IL 60624



Sample ID:
Material Not Sampled – Not Suspected to
Contain Asbestos

Location:
Basement

Sample Description:
Fiberglass Fire Rated Door Insulation



Sample ID:
Materials Not Sampled – Not Suspected to
Contain Asbestos

Location:
Mechanical Room

Sample Description:
Fiberglass Pipe and Duct Insulation



Sample ID:
Material Not Sampled – Not Suspected to
Contain Asbestos

Location:
Throughout Building

Sample Description:
Fiberglass Pipe Insulation in Pipe Chase



Sample ID:
N/A

Location:
Stacks

Sample Description:
Bookcase with Lead-Based Paint Film

SECTION 080152.61 - WOOD WINDOW **AND DOOR** REPAIRS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes wood window repairs as follows:
 - 1. Repairing wood windows, **doors** and trim.
 - 2. **Window sash and frame restoration or replacement.**
 - 3. **Door leaf and frame restoration or replacement.**
 - 4. **Weather-stripping.**
 - 5. **Temporary weatherproof door closures as required to maintain building in a weatherproof condition.**
- B. Related Sections include the following:**
 - 1. **See Division 7 Section "Joint Sealants" for material and execution requirements for joint sealant work related to window restoration.**
 - 2. **See Division 9 Section "Painting" for material, surface preparation, and application requirements for new finishes on restored wood windows and doors.**

1.3 DEFINITIONS

- A. Design Reference Sample: A sample that represents the Architect's prebid selection of work to be matched; it may be existing work or work specially produced for the Project.
- B. Glazing: Includes glass, glazing points, glazing tapes, glazing sealants, and glazing compounds.
- C. Replicate: To reproduce in exact detail, materials, and finish unless otherwise indicated.
- D. Window: Includes window frame, sash, hardware, storm window, and exterior and interior shutters unless otherwise indicated by context.
- E. Wood Window Component Terminology: Wood window components for repair work include the following classifications:

1. Frame Components: Head, jambs, and sill.
2. Sash Components: Stiles and rails, parting bead, stop, and muntins.
3. Exterior Trim: Exterior casing, brick mold, and cornice or drip cap.
4. Interior Trim: Casing, stool, and apron.

1.4 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at Project site.

1.5 SEQUENCING AND SCHEDULING

- A. Perform window repairs in the following sequence, which includes work specified in this and other Sections:
 1. Label each window frame with permanent opening-identification number in inconspicuous location.
 2. Tag existing window sash, storm windows, ~~and shutters~~ with opening-identification numbers and remove for on-site or off-site repair. Indicate on tags the locations on window of each component, such as "top sash," "bottom sash," ~~"left shutter," and "right shutter."~~
 3. Remove window, dismantle hardware, and tag hardware with opening-identification numbers.
 4. Install temporary protection and security at window openings.
 5. In the shop, label each sash, storm window, ~~and shutter~~ unit with permanent opening-identification number in inconspicuous location and remove site-applied tags.
 6. Sort units by condition, separating those that need extensive repair.
 7. Clean surfaces.
 8. General Wood-Repair Sequence:
 - a. Remove paint to bare wood.
 - b. Rack frames slightly to inject adhesive into mortise and tenon joints; square frames to proper fit before adhesive sets.
 - c. If thicker than original glass is required, rout existing muntins to required rebate size.
 - d. Repair wood by consolidation, member replacement, partial member replacement, and patching.
 - e. Sand, prime, fill, sand again, and prime surfaces again for refinishing.
 9. Repair, refinish, and replace hardware if required. Reinstall operating hardware.
 10. Install glazing.
 11. Remove temporary protection and security at window openings.
 12. Reinstall units.
 13. Apply finish coats.
 14. Install remaining hardware and weather stripping.

B. Perform door repairs in the following sequence, which includes work specified in this and other Sections:

1. **Label each door leaf with permanent opening-identification number in inconspicuous location.**
2. **Tag existing door leaf with opening-identification numbers and remove for on-site or off-site repair. Indicate on tags the locations on door of each component.**
3. **Remove door, dismantle hardware, and tag hardware with opening-identification numbers.**
4. **Install temporary protection and security at door openings.**
5. **In the shop, label each leaf unit with permanent opening-identification number in inconspicuous location and remove site-applied tags.**
6. **Sort units by condition, separating those that need extensive repair.**
7. **Clean surfaces.**
8. **General Wood-Repair Sequence:**
 - a. **Remove paint to bare wood.**
 - b. **Rack frames slightly to inject adhesive into mortise and tenon joints; square frames to proper fit before adhesive sets.**
 - c. **If thicker than original glass is required, rout existing muntins to required rebate size.**
 - d. **Repair wood by consolidation, member replacement, partial member replacement, and patching.**
 - e. **Sand, prime, fill, sand again, and prime surfaces again for refinishing.**
9. **Repair, refinish, and replace hardware if required. Reinstall operating hardware.**
10. **Install glazing.**
11. **Remove temporary protection and security at window openings.**
12. **Reinstall units.**
13. **Apply finish coats.**
14. **Install remaining hardware and weather stripping.**

1.6 ACTION SUBMITTALS

- A. Product Data: For each type of product.
 1. Include recommendations for product application and use.
 2. Include test data substantiating that products comply with requirements.
- B. Shop Drawings:
 1. Include plans, elevations, and sections showing locations and extent of repair and replacement work, with enlarged details of replacement parts indicating materials, profiles, joinery, reinforcing, method of splicing into or attaching to existing wood window **and door**, accessory items, and finishes.
 2. Include field-verified dimensions and provisions for sealant joints as required for location.

- C. Samples for Initial Selection: For each type of exposed wood and finish.
 - 1. Identify wood species, cut, and other features.
 - 2. Include Samples of hardware and accessories involving color selection.

- D. Samples for Verification: For the following products in manufacturer's standard sizes unless otherwise indicated, finished as required for use in the Work:
 - 1. Replacement Units: 12-inch- long, full-size frame sections with applied finish.
 - 2. Replacement Members: 12 inches long for each replacement member, including parts of frame, sash, exterior trim, and interior trim.
 - 3. Repaired Wood Window **and Door** Members: Prepare Samples using existing wood window members removed from site, repaired, and prepared for refinishing.
 - 4. Refinished Wood Window **and Door** Members: Prepare Samples using existing wood window members removed from site, repaired, and refinished.
 - 5. Hardware: Full-size units with each factory-applied or restored finish.
 - 6. Weather Stripping: 12-inch- long sections.

1.7 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For wood-window **and door**-repair specialist wood **and door**-repair-material manufacturer.

1.8 QUALITY ASSURANCE

- A. Wood-Window **and Door**-Repair Specialist Qualifications: A qualified wood window **and door** specialist, experienced in repairing, refinishing, and replacing wood windows in whole and in part. Experience only in fabricating and installing new wood windows **and doors** is insufficient experience for repairing wood windows.
 - 1. Title X Requirement: Each firm conducting activities that disturb painted surfaces shall be a "Lead-Safe Certified Firm" according to 40 CFR 745, Subpart E, and use only workers that are trained in lead-safe work practices.

- B. Wood-Repair-Material Manufacturer Qualifications: A firm regularly engaged in producing wood consolidant and wood-patching compound that have been used for similar wood-repair applications with successful results, and with factory-authorized service representatives who are available for consultation and Project-site inspection and on-site assistance.

- C. Mockups: Prepare mockups of window **and door**-repair processes to demonstrate aesthetic effects and to set quality standards for materials and execution and for fabrication and installation. Prepare mockups so they are as inconspicuous as practicable.
 - 1. Locate mockups on existing windows where directed by Architect.

2. Wood Window **and Door** Repairs: Prepare one entire window unit and **door leaf** to serve as mockup to demonstrate samples of each type of repair of wood window **and door** members including frame, sash, glazing, and hardware.
3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Pack, deliver, and store products in suitable packs, heavy-duty cartons, or wooden crates; surround with sufficient packing material to ensure that products are not deformed, broken, or otherwise damaged.
- B. Store products inside a well-ventilated area and where environmental conditions comply with manufacturer's requirements; protect from weather, moisture, soiling, abrasion, extreme temperatures, and humidity.

1.10 FIELD CONDITIONS

- A. Weather Limitations: Proceed with wood window **and door** repairs only when existing and forecasted weather conditions are within the environmental limits set by each manufacturer's written instructions and specified requirements.

PART 2 - PRODUCTS

2.1 WOOD WINDOW REPAIRS, GENERAL

- A. Quality Standard: Comply with applicable requirements in Section 6, "Interior & Exterior Millwork," in AWI/AWMAC/WI's "Architectural Woodwork Standards" for construction, finishes, grades of wood windows, and other requirements unless otherwise indicated.
 1. Exception: Industry practices cited in Section 6, Article 1.5, Industry Practices, of the Architectural Woodwork Standards do not apply to the work of this Section.

2.2 WOOD-REPLACEMENT MATERIALS

- A. Wood, General: Clear fine-grained lumber; kiln dried to a moisture content of 6 to 12 percent at time of fabrication; free of visible finger joints, blue stain, knots, pitch pockets, and surface checks larger than 1/32 inch deep by 2 inches wide.

1. Species: Match species of each existing type of wood component or assembly unless otherwise indicated.
- B. Frame Heads and Jambs and Exterior Trim: Match existing species.
- C. Exterior Trim **and wood stop**: Match existing species.
- D. Sills: Match existing species.
- E. Interior Trim: Match existing species.

2.3 WOOD-REPAIR MATERIALS

- A. Source Limitations: Obtain wood consolidant and wood-patching compound from single source from single manufacturer.
- B. Wood Consolidant: Ready-to-use product designed to penetrate, consolidate, and strengthen soft fibers of wood materials that have deteriorated due to weathering and decay and designed specifically to enhance the bond of wood-patching compound to existing wood.
 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Abatron, Inc.
 - b. ConServ Epoxy LLC.
 - c. Gougeon Brothers, Inc.
 - d. Protective Coating Company.
 - e. System Three Resins, Inc.
- C. Wood-Patching Compound: Two-part epoxy-resin wood-patching compound; knife-grade formulation as recommended in writing by manufacturer for type of wood repair indicated, tooling time required for the detail of work, and site conditions. Compound shall be designed for filling voids in damaged wood materials that have deteriorated due to weathering and decay. Compound shall be capable of filling deep holes and spreading to feather edge.
 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Abatron, Inc.
 - b. Advanced Repair Technology, Inc.
 - c. ConServ Epoxy LLC.
 - d. Gougeon Brothers, Inc.
 - e. Polymeric Systems, Inc.
 - f. Protective Coating Company.
 - g. System Three Resins, Inc.

D. Wood Filler: Solvent base, tinted to match surface finish color.

2.4 WEATHER STRIPPING

A. Compression-Type Weather Stripping: Compressible weather stripping designed for permanently resilient sealing under bumper or wiper action; completely concealed when window is closed.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

- a. National Guard Products, Inc.
- b. Pemko Manufacturing Co.
- c. Reese Enterprises, Inc.
- d. Zero International, Inc.

2. Weather-Stripping Material: Match existing materials and profiles as much as possible unless otherwise indicated.

- a. Cellular Elastomeric Gaskets: Preformed; complying with ASTM C 509.
- b. Doors: Silicone bulb in aluminum extrusion, by Reese Enterprises, Inc. or equivalent product by another listed manufacturer.**

B. Sliding-Type Weather Stripping: Woven-pile weather stripping of wool, polypropylene, or nylon pile and resin-impregnated backing fabric.

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

- a. National Guard Products, Inc.
- b. Pemko Manufacturing Co.
- c. Reese Enterprises, Inc.
- d. Zero International, Inc.

2. Weather Seals: Provide weather stripping with integral barrier fin or fins of semirigid, polypropylene sheet or polypropylene-coated material.

2.5 GLAZING MATERIALS

A. Glazing system: Wood stop (profile to replication putty glazing) be fabricated to secure existing IG units in sash.

2.6 MISCELLANEOUS MATERIALS

- A. Borate Preservative Treatment: Inorganic, borate-based solution, with disodium octaborate tetrahydrate as the primary ingredient; manufactured for preserving weathered and decayed wood from further damage by decay fungi and wood-boring insects; complying with AWPA P5; containing no boric acid.
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Abatron, Inc.
 - b. Nisus Corporation.
 - c. System Three Resins, Inc.
- B. Cleaning Materials:
 - 1. Detergent Solution: Solution prepared by mixing 2 cups of tetrasodium pyrophosphate (TSPP), 1/2 cup of laundry detergent that contains no ammonia, 5 quarts of 5 percent sodium hypochlorite bleach, and 15 quarts of warm water for each 5 gal. of solution required.
 - 2. Mildewcide: Commercial, proprietary mildewcide or a solution prepared by mixing 1/3 cup of household detergent that contains no ammonia, 1 quart of 5 percent sodium hypochlorite bleach, and 3 quarts of warm water.
- C. Adhesives: Wood adhesives for exterior exposure, with minimum 15- to 45-minute cure at 70 deg F, in gunnable and liquid formulations as recommended in writing by adhesive manufacturer for each type of repair.
- D. Fasteners: Use fastener metals that are noncorrosive and compatible with each material joined.
 - 1. Match existing fasteners in material and type of fastener unless otherwise indicated.
 - 2. Use concealed fasteners for interconnecting wood components.
 - 3. Use concealed fasteners for attaching items to other work unless exposed fasteners are unavoidable or the existing fastening method.
 - 4. For fastening metals, use fasteners of same basic metal as fastened metal unless otherwise indicated.
 - 5. For exposed fasteners, use Phillips-type machine screws of head profile flush with metal surface unless otherwise indicated.
 - 6. Finish exposed fasteners to match finish of metal fastened unless otherwise indicated.
- E. Anchors, Clips, and Accessories: Fabricate anchors, clips, and window accessories of aluminum, nonmagnetic stainless steel, or hot-dip zinc-coated steel complying with requirements in ASTM B 633 for SC 3 (Severe) service condition.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Protect adjacent materials from damage by performing wood window **and doors** repairs.
- B. Clean wood windows **and doors** of mildew, algae, moss, plant material, loose paint, grease, dirt, and other debris by scrubbing with bristle brush or sponge and detergent solution. Scrub mildewed areas with mildewcide. After cleaning, rinse thoroughly with fresh water. Allow to dry before repairing or painting.
- C. Condition replacement wood members and replacement units to prevailing conditions at installation areas before installing.

3.2 WOOD WINDOW **AND DOOR** REPAIRS, GENERAL

- A. Have wood window and door repairs performed only by qualified wood-window **and door**-repair specialist.
- B. Appearance Standard: Completed work is to have a uniform appearance as viewed by Architect from the window and door interior at 5 feet away and from the window **and door** exterior at 20 feet away.
- C. Execution of the Work: In repairing wood windows **and doors**, disturb them as minimally as possible and as follows:
 - 1. Stabilize and repair wood windows **and doors** to reestablish structural integrity and weather resistance while maintaining the existing form of each item.
 - 2. Remove coatings and apply borate preservative treatment before repair. Remove coatings according to Division 9 Section "Painting" unless otherwise indicated.
 - 3. Repair items in place where possible.
 - 4. Install temporary protective measures to protect wood window **and door** work that is indicated to be completed later.
 - 5. Refinish wood windows **and doors** according to Division 9 Section "Painting" unless otherwise indicated.
- D. Mechanical Abrasion: Where mechanical abrasion is needed for the work, use gentle mechanical methods, such as scraping and natural-fiber bristle brushing, that will not abrade wood substrate, reducing clarity of detail.
- E. Repair Wood Windows **and Doors**: Match existing materials and features.
 - 1. Repair wood windows **and doors** by consolidating, patching, splicing, or otherwise reinforcing wood with new wood matching existing wood or with salvaged, sound, original wood.

- F. Protection of Openings: Where sash or windows **or doors** are indicated for removal, cover resultant openings with temporary enclosures so that openings are weathertight during repair period.
- G. Identify removed windows **and doors**, frames, sash, and members with numbering system corresponding to window locations to ensure reinstallation in same location. Key windows and doors, sash, **leaf** and members to Drawings showing location of each removed unit. Permanently label units in a location that will be concealed after reinstallation.

3.3 WOOD WINDOW **AND DOOR** PATCH-TYPE REPAIR

- A. General: Patch wood members that exhibit depressions, holes, or similar voids and that have limited amounts of rotted or decayed wood.
 - 1. Remove from windows before performing patch-type repairs at meeting or sliding surfaces unless otherwise indicated. Reglaze units before reinstallation.
 - 2. Verify that surfaces are sufficiently clean and free of paint residue before patching.
 - 3. Remove rotted or decayed wood down to sound wood.
- B. Apply borate preservative treatment to accessible surfaces after removing rotted or decayed wood and before applying wood consolidant or patching compound. Apply treatment liberally by brush to joints, edges, and ends; top, sides, and bottom. Allow treatment to dry.
- C. Apply wood-patching compound to fill depressions, nicks, cracks, and other voids created by removed or missing wood.
 - 1. Prime patch area with application of wood consolidant or manufacturer's recommended primer.
 - 2. Mix only as much patching compound as can be applied according to manufacturer's written instructions.
 - 3. Apply patching compound in layers as recommended in writing by manufacturer until the void is completely filled.
 - 4. Sand patch surface smooth and flush with adjacent wood, without voids in patch material, and matching contour of wood member.
 - 5. Clean spilled compound from adjacent materials immediately.

3.4 WOOD WINDOW **AND DOOR** MEMBER-REPLACEMENT REPAIR

- A. General: Replace parts of or entire wood window members at locations where damage is too extensive to patch.
 - 1. Remove from windows before performing member-replacement repairs unless otherwise indicated.
 - 2. Verify that surfaces are sufficiently clean and free of paint residue before repair.
 - 3. Remove broken, rotted, and decayed wood down to sound wood.

4. Custom fabricate new wood to replace missing wood; either replace entire wood member or splice new wood part into existing member.
 5. Secure new wood using finger joints, multiple dowels, or splines with adhesive and nailing to ensure maximum structural integrity at each splice. Use only concealed fasteners. Fill nail holes and patch surface to match surrounding sound wood.
- B. Apply borate preservative treatment to accessible surfaces after replacements are made. Apply treatment liberally by brush to joints, edges, and ends; top, sides, and bottom.
 - C. Repair remaining depressions, holes, or similar voids with patch-type repairs.
 - D. Clean spilled materials from adjacent surfaces immediately.
 - E. Reinstall units removed for repair into original openings.
 - F. Weather Stripping: Replace nonfunctioning and install missing weather stripping to ensure full-perimeter and meeting rail weather stripping for each operable sash.

3.5 GLAZING

- A. Completely remove all glass and glazing materials from existing sash and leaf.**
- B. Verify that glazing rabbets are primed before installing glass.**
- C. Install glass using wood stop.**

3.6 WEATHER STRIPPING INSTALLATION

- A. Install weather stripping for tight seal of joints as determined by preconstruction testing and demonstrated in mockup.

3.7 ADJUSTING

- A. Adjust existing and replacement operating sash, screens, hardware, weather stripping, and accessories for a tight fit at contact points and weather stripping for smooth operation and weathertight closure. Lubricate hardware and moving parts.

3.8 CLEANING AND PROTECTION

- A. Protect window **and door** surfaces from contact with contaminating substances resulting from construction operations. Monitor window surfaces adjacent to and below exterior concrete and masonry during construction for presence of dirt, scum, alkaline deposits, stains, or other contaminants. If contaminating substances contact window surfaces, remove contaminants immediately.

- B. Clean exposed surfaces immediately after repairing wood windows. Avoid damage to coatings and finishes. Remove excess sealants, glazing and patching materials, dirt, and other substances.
- C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction.

END OF SECTION 080152.61

230130 - HVAC AIR-DISTRIBUTION SYSTEM CLEANING

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Section includes cleaning of interior surfaces of HVAC equipment. The HVAC equipment cleaning work includes the following:
 - 1. Supply air, return air, outside air intake, exhaust and relief air duct distribution systems.
 - 2. Duct-mounted VAV boxes, unit heaters, baseboards, and exhaust fans.
 - 3. Air distribution devices (registers, grilles, and diffusers).
- B. The HVAC equipment cleaning work includes verification, through inspection and/or testing by the cleaning contractor, as specified herein and as indicated in referenced NADCA standards.

1.2 DEFINITIONS

- A. HVAC System: For purposes of this section, the surfaces to be cleaned include all interior surfaces of the heating, air-conditioning and ventilation system from the points where the air enters the system to the points where the air is discharged from the system, including the inside of air distribution equipment, coils, and condensate drain pans; see NADCA ACR for more details.

1.3 REFERENCE STANDARDS

- A. NADCA ACR - Assessment, Cleaning and Restoration of HVAC Systems; 2013.
- B. NFPA 90A - Standard for the Installation of Air-Conditioning and Ventilating Systems; 2018.
- C. NFPA 90B - Standard for the Installation of Warm Air Heating and Air-Conditioning Systems; 2018.
- D. UL 181 - Standard for Factory-Made Air Ducts and Air Connectors; current edition, including all revisions.
- E. UL 181A - Closure Systems for Use with Rigid Air Ducts; Current Edition, Including All Revisions.

1.4 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.
- B. Qualifications Statement: Submit qualifications of proposed cleaning contractor for approval.
- C. Project Cleanliness Evaluation and Cleaning Plan, as specified.
- D. Project Closeout Report: Include field quality control reports, evidence of satisfactory cleaning, and documentation of items needing further repair.

1.5 QUALITY ASSURANCE

- A. Cleaning Contractor Qualifications: Company specializing in the cleaning and restoration of HVAC systems as specified in this section.
 - 1. Certified by one of the following:
 - a. NADCA, National Air Duct Cleaners Association: www.nadca.com
 - 2. Having minimum of five years documented experience.
 - 3. Employing for this project a supervisor certified as an Air Systems Cleaning Specialist by NADCA.

PART 2 - PRODUCTS

2.1 TOOLS AND EQUIPMENT

- A. Vacuum Devices and Other Tools: Exceptionally clean, in good working order, and sealed when brought into the facility.
- B. Vacuum Devices That Exhaust Air Inside Building, Including Hand-Held and Wet Vacuums: Equipped with HEPA filtration with 99.97 percent collection efficiency for minimum 0.3-micron size particles and DOP test number.
- C. Vacuum Devices That Exhaust Air Outside Building, Including Truck- and Trailer-Mounted Types: Equipped with particulate collection including adequate filtration to contain debris removed from the HVAC system; exhausted in manner that prevents contaminant re-entry to building; compliant with applicable regulations as to outdoor environmental contamination.

2.2 REPLACEMENT PRODUCTS

- A. Fibrous Glass Insulation: Provide material complying with UL 181 equivalent to existing material in quality and thickness.

2.3 DUCT DEODORIZER

- A. Equal to Madacide, as supplied by Mateson Chemical, EnviroCon as manufactured by Bio-Cide International, Inc., or approved equal.
 - 1. International, Inc., or approved equal.

2.4 SANITIZER

- A. An E.P.A. registered sanitizer "Oxine" as manufactured by Bio-Cide International or approved equal. "BBJ" microbiocide as manufactured by BBJ Chemical Compounds, "Airkem NR Quat" as manufactured by Airkem Industrial Products, or approved equal.

2.5 SURFACE TREATMENTS

- A. A duct liner adhesive coating, Foster 40-10, 40-20 or 40-23, as manufactured by Foster Products Corporation, Cover-Al as manufactured by Mateson Chemical Corporation, or approved equal shall be used. Product shall be a quick setting waterbase adhesive and coating designed for field application to faced or unfaced fiberglass duct liner insulation, or to unfaced fiberboard ductboard insulation. The coating shall dry to form an effective air erosion

preventive coating, sealing and reinforcing the surface. The coating shall be resistant to fire, water, oil, grease, bacteria, and fungus.

- B. Mechanical insulation repair coating, Tough Coat, as manufactured by Vac System Industries, Inc., or approved equal shall be used. The coating material shall contain an anti-microbial agent, shall not affect the thermal or acoustic properties of the insulation, and shall conform to NFPA 90A and NFPA 90B.

PART 3 - EXECUTION

3.1 PROJECT CONDITIONS

- A. Comply with applicable federal, state, and local requirements.
- B. Perform cleaning, inspection, and remediation in accordance with the recommendations of NADCA ACR and as specified herein.
- C. Where NADCA ACR uses the terms "recommended", "highly recommended", or "ideally" in regard to a certain procedure or activity, do that unless it is clearly inapplicable to the project.
- D. Obtain Board's approval of proposed temporary locations for large equipment.
- E. Designate a decontamination area and obtain Board's approval.
- F. If unforeseen mold or other biological contamination is encountered, notify Architect/Engineer of Record immediately, identifying areas affected and extent and type of contamination.

3.2 EXAMINATION

- A. Inspect the system as required to determine appropriate methods, tools, equipment, and protection.
- B. Perform "Project Evaluation and Recommendation" according to NADCA ACR.
- C. Proceed with work only after unsatisfactory conditions have been corrected and after all HVAC equipment renovation has been completed, but prior to the final balancing of the HVAC systems.
- D. Start of cleaning work constitutes acceptance of existing conditions.
- E. When concealed spaces are later made accessible, examine and document interior conditions prior to beginning cleaning.
- F. Document all instances of mold growth, rodent droppings, other biological hazards, and damaged system components.

3.3 PREPARATION

- A. When cleaning work might adversely affect life safety systems, including fire and smoke detection, alarm, and control, coordinate scheduling and testing and inspection procedures with authorities having jurisdiction.

- B. Ensure that electrical components that might be adversely affected by cleaning are de-energized, locked out, and protected prior to beginning work.
- C. Air-Volume Control Devices: Mark the original position of dampers and other air-directional mechanical devices inside the HVAC system prior to starting cleaning.
- D. Access to Concealed Spaces: Use existing service openings and make additional service openings as required to accomplish cleaning and inspection.
 - 1. Do not cut openings in non-HVAC components without obtaining the prior approval of Board.
 - 2. Make new openings in HVAC components in accordance with NADCA Standard 05; do not compromise the structural integrity of the system.
 - 3. Do not cut service openings into flexible duct; disconnect at ends for cleaning and inspection.
- E. Ceiling Tile: Lay-in ceiling tile may be removed to gain access to HVAC systems during the cleaning process; protect tile from damage and reinstall upon completion; replace damaged tile.

3.4 CLEANING

- A. Use any cleaning method recommended by NADCA ACR unless otherwise specified; do not use methods prohibited by NADCA ACR, or that will damage HVAC components or other work, or that will significantly alter the integrity of the system.
- B. Obtain Board's approval before using wet cleaning methods; ensure that drainage is adequate before beginning.
- C. HVAC EQUIPMENT CLEANING
 - 1. General:
 - a. Containment: Debris removed during cleaning shall be collected and precautions must be taken to ensure that debris is not dispersed outside the HVAC system during the cleaning process.
 - b. Particulate Collection: Where the particulate collection equipment is exhausting inside the building. HEPA filtration with 99.97% collection efficiency for 0.3 micron size (or greater) particles shall be used. Mechanical cleaning operations shall be undertaken only with particulate collection equipment in place including adequate filtration to contain debris removed from the HVAC system. When the particulate collection equipment is exhausting outside the building, precautions shall be taken to locate the equipment down wind and away from all air intakes and other points of entry into the building.
 - c. Controlling odors: Control offensive odors and/or mist vapors during the cleaning process. Refer to Division 01 Section, "Dust, Fume and Odor Control."
 - d. Cleaning: Visibly clean all system components as defined in applicable NADCA standards. Upon completion, all components must be returned to those settings recorded prior to cleaning operations.
 - e. Removal: Remove visible surface contaminants and deposits from within the HVAC system in strict accordance with these specifications and NADCA recommendations.

- f. Verification: Verification of HVAC system cleanliness shall be determined after mechanical cleaning, but before the application of any treatment or introduction of any treatment-related substance, including biocidal agents and coatings.
2. Air-Volume Control Devices: Existing dampers and any-directional mechanical devices inside the HVAC system to remain must have their position marked prior to cleaning and upon completion must be restored to their marked position.
3. Service Openings: Utilize service openings, at various points of the HVAC system for physical and mechanical entry and inspection.
 - a. Utilize the existing openings already installed in the HVAC system where possible.
 - b. Other access points shall be provided, where required, and shall be sealed in accordance with industry codes and standards. Refer to Sections 23 31 00- HVAC Ducts and Casings and Section 23 33 00 - Air Duct Accessories.
 - c. Closures must not significantly hinder, restrict, or alter the air-flow within the system.
 - d. Closures must be properly insulated to prevent heat loss/gain or condensation on surfaces within insulated systems.
 - e. Openings must not compromise the structural integrity of the system.
 - f. Construction techniques used in the creation of openings shall conform to requirements of the authority having jurisdiction and applicable NFPA, SMACNA and NADCA standards.
 - g. Cutting service openings into flexible duct is not permitted.
 - h. All service openings capable of being re-opened for future inspection or remediation shall be clearly marked and shall have their location recorded in project record documents.
4. Outside air intake shaft and ducts, Terminal Units (VAV, etc.) Blowers and Exhaust Fans: Clean supply, return and exhaust fans, including blowers, fan housings, air chambers and plenums, heaters/cooling coils, scrolls, blades, vanes, shafts, baffles, dampers and drive assemblies. All visible surface contamination shall be removed.
 - a. Assure that a suitable operative drainage system is in place prior to beginning wash down procedures.
 - b. Clean all coils and related components, including evaporator fins.
5. Debris disposal: All debris removed from the HVAC System shall become property of the Contractor and shall be removed from the Site and disposed of legally.
6. Source Removal Cleaning Methods: The HVAC system shall be cleaned using Source Removal mechanical cleaning methods noted in NADCA ACR. The cleaning method(s) selected shall render the HVAC system visibly clean and capable of passing cleaning verification methods and other specified tests. No cleaning method, or combination of methods, should be used which could potentially damage components, or alter the integrity, of the HVAC system.
 - a. All methods shall incorporate the use of vacuum collection devices that are operated continuously during cleaning. A vacuum device shall be connected to the downstream end of the section being cleaned through a predetermined opening. The vacuum collection device must be of sufficient power to render all areas being cleaned under negative pressure.
 - b. All vacuum devices, including hand-held and wet vacuums, exhausting air inside the building shall be equipped with HEPA filters (99.97 % efficiency).
 - c. All vacuum devices exhausting air outside the facility shall be equipped with particulate collection including adequate filtration to contain debris removed from the HVAC system. Such devices shall exhaust in a manner that will not allow

contaminants to re-enter the facility. Release of debris outdoors shall be done in accordance with requirements of authority having jurisdiction.

- D. Ducts: Mechanically clean all portions of ducts.
- E. Hoses, Cables, and Extension Rods: Clean using suitable sanitary damp wipes at the time they are being removed or withdrawn from their normal position.
- F. Registers, Diffusers, and Grilles: When removing, take care to prevent containment exposure due to accumulated debris.
- G. Coils: Follow NADCA ACR completely including measuring static pressure drop before and after cleaning; do not remove refrigeration coils from system to clean; report coils that are permanently impacted.
 - 1. Measure static pressure differential across each coil.
 - 2. Any cleaning methods used shall render the coil visibly clean and capable of passing coil cleaning verification in accordance with NADCA standards.
 - a. Coil drain pans shall be subject to NADCA ACR, "Non-Porous Surfaces Cleaning Verification."
 - b. The drain for the condensate drain pan shall remain operational.
 - c. Cleaning methods shall not cause any damage to displacement of, inhibit heat transfer, or erosion of the coil surface or fins, and shall conform to coil manufacturer recommendations.
 - d. Coils shall be thoroughly rinsed with clean water to remove latent residues, and all fins shall be combed and straightened.
 - 3. Coils and coil drain pans are to be cleaned in accordance with NADCA ACR, with drain pan(s) kept operational. Rinse coils with clean water to remove latent residues and cleaning materials; comb and straighten fins.
 - 4. Electric-resistance coils shall be de-energized, locked out, and tagged prior to cleaning.
 - 5. Coils that are not equipped with drain pans shall first be subjected to Type 1 cleaning. If Type 1 does not provide acceptable results, Type 2 shall be used, with a means for draining of the cleaning water provided.
- H. Biocidal Agents and Coatings:
 - 1. Biocidal agents shall only be applied if active fungal growth is found, or where unacceptable levels of fungal contamination have been verified through the testing.
 - 2. Application of any biocidal agents used to control the growth of fungal or bacteriological contaminants shall be performed after the removal of surface deposits and debris.
 - 3. Only biocidal agents registered by the U. S. Environmental Protection Agency (EPA) specifically for use within HVAC system shall be used.
 - 4. Biocidal agents shall be applied in strict accordance with manufacturer's instructions.
 - 5. Biocidal coating products for both porous and non-porous surfaces shall be EPA registered, water soluble solutions.
- I. Fibrous Glass Material: Use HEPA vacuuming equipment, under constant negative pressure, do not permit to get wet, and do not damage surfaces; replace material damaged by cleaning operations.

- J. Existing Damaged Fibrous Glass Material: Report to Architect/Engineer of Record all evidence of damage, deterioration, delaminating, friable material, mold or fungus growth, or moisture that cannot be remedied by cleaning or resurfacing with an acceptable insulation repair coating.
 - 1. Material with active fungal growth is considered unremediable.
 - 2. Remove unremediable material and clean underlying surfaces.
- K. Collect debris removed during cleaning; ensure that debris is not dispersed outside the HVAC system during the cleaning process.
- L. Store contaminated tools and equipment in polyethylene bags until cleaned in the designated decontamination area.

3.5 REPAIR

- A. Repair openings cut in the ventilation system so that they do not significantly alter the airflow or adversely impact the facility's indoor air quality.
- B. At insulated ducts and components, accomplish repairs in such a manner as to achieve the equivalent thermal value.
- C. Reseal new openings in accordance with NADCA Standard 05.
- D. Reseal rigid fiber glass duct systems using closure techniques that comply with UL 181 or UL 181A.
- E. When new openings are intended to be capable of being re-opened in the future, clearly mark them and report their locations to Board in project report documents.

3.6 FIELD QUALITY CONTROL

- A. Ensure that the following field quality control activities are completed prior to application of any treatments or coatings and prior to returning HVAC system to normal operation.
- B. Visually inspect all portions of the cleaned components; if not visibly clean as defined in NADCA ACR, re-clean and reinspect.
- C. Coils: Cleaning must restore the coil pressure drop to within 10 percent of the coil's original installed pressure drop; if original pressure drop is not known, coil will be considered clean if free of foreign matter and chemical residue based on visual inspection.
- D. Notify Architect/Engineer of Record when cleaned components are ready for inspection.
- E. Notify Board's testing and inspection agency when cleaned components are ready for inspection.
- F. Board reserves the right to verify cleanliness using NADCA ACR Surface Comparison Testing or NADCA Vacuum Test.
- G. When directed, re-clean components until they pass.
- H. Contractor shall bear the costs of retesting due to inadequate cleaning.

- I. Submit evidence that all portions of the system required to be cleaned have been cleaned satisfactorily.

3.7 ADJUSTING

- A. After satisfactory completion of field quality control activities, restore adjustable devices to original settings, including, but not limited to, dampers, air directional devices, valves, fuses, and circuit breakers.
- B. At the conclusion of the HVAC cleaning work, but before the HVAC systems are returned to normal operation, the Contractor is to return all controls, dampers, and other directional devices within the HVAC system to the settings recorded prior to the start of cleaning.
- C. Where areas of the HVAC systems have been found to be damaged and/or in need of repair, the Contractor shall prepare a written report indicating the nature and locations of these items. A copy of this report shall be submitted to the Owner.

END OF SECTION 220519

SECTION 232500 - HVAC WATER TREATMENT

PART 1 - GENERAL

1.1 SECTION INCLUDES THE FOLLOWING:

- A. Water treatment Scope.
 - 1. Remove existing open and closed systems water treatment and provide new water treatment as noted hereinafter.
 - 2. Remove existing pot feeders and provide new ones for chilled water and hot water systems as noted hereinafter.
 - 3. Provide 30% propylene glycol solution for the chilled and hot water systems.
 - 4. Include flushing and cleaning of the chilled water and hot water systems.
- B. Materials.
 - 1. System cleaner.
 - 2. Closed system treatment (water).
 - 3. Open system Condenser water system treatment (cooling towers).
- C. By-pass (pot) feeder.
- D. Solution metering pump.
- E. Solution tanks.
- F. Liquid level switch.
- G. Acidity controller.
- H. Conductivity controller.
- I. Water meter.
- J. Solenoid valves.
- K. Timers.
- L. Water softeners.
- M. Test equipment.
- N. Side-stream filtration equipment.
- O. Centrifugal separators
- P. Stainless steel piping

1.2 SUBMITTALS

- A. See Section 01 30 00 - Administrative Requirements, for submittal procedures.

- B. Product Data: Provide chemical treatment materials, chemicals, and equipment including electrical characteristics and connection requirements.
- C. Shop Drawings: Indicate system schematic, equipment locations, and controls schematics, electrical characteristics and connection requirements. Submit shop drawings showing scaled plans, elevations, sections, and large-scale details. Include pretreatment and chemical treatment equipment, including tanks, sequence of operations and piping connections to HVAC systems, and clear space required for maintenance.
 - 1. Wiring Diagrams: For power and control wiring. Clearly differentiate between factory-installed and field-installed wiring.
- D. Shop Drawings: Indicate system schematic, equipment locations, and controls schematics, electrical characteristics and connection requirements.
- E. Qualifications: For treatment provider and project technicians.
- F. Manufacturer's Installation Instructions: Indicate placement of equipment in systems, piping configuration, and connection requirements.
- G. Manufacturer's Field Reports: Indicate start-up of treatment systems when completed and operating properly. Indicate analysis of system water after cleaning and after treatment.
- H. Certificate: Submit certificate of compliance from Authority Having Jurisdiction indicating approval of chemicals and their proposed disposal.
- I. Project Record Documents: Record actual locations of equipment and piping, including sampling points and location of chemical injectors.
- J. Operation and Maintenance Data: Include data on chemical feed pumps, agitators, and other equipment including spare parts lists, procedures, and treatment programs. Include step by step instructions on test procedures including target concentrations.
- K. Water Treatment Program: Written explanation of procedures and operations to be performed, on an annual basis, by application equipment to ensure water quality criteria specified in Article "Performance Requirements" is achieved and maintained. Submit three copies in 3-ring binders.
- L. Passivation Confirmation Letter (open condenser water systems): Submit a signed letter verifying passivation of galvanized-steel surfaces.

1.3 QUALITY ASSURANCE

- A. Water Treatment Service Provider Qualifications: Engage a firm with not less than 5 years experience in the analysis and maintenance of the quality of water utilized in HVAC equipment and systems comparable to those indicated or required for the Project, and that clearly demonstrates a capability to accurately analyze water qualities, install water-treatment equipment, and apply water treatment processes as specified.
 - 1. Project Technicians: Certified Water Technologists (CWT) in good standing, certified by the AWT, or have similar training and experience qualifications.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70 by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.

1.4 PERFORMANCE REQUIREMENTS

A. Water Quality:

1. General: Water used within HVAC systems shall minimize corrosion, scale buildup, and biological growth, to ensure optimum efficiency of HVAC equipment and that a hazard to either operating personnel or the environment has not been created.
2. HVAC water treatment shall be based upon quality of water available at Project site, HVAC system equipment material characteristics and functional performance characteristics, operating personnel capabilities, and requirements and guidelines of authorities having jurisdiction.
3. Water used within closed hydronic systems (both water and glycol), including hot-water heating, chilled water, and dual-temperature water systems shall have the following qualities:
 - a. Acidity (pH): 8.5 to 10.2.
 - b. "P" Alkalinity: Record value and include in test report.
 - c. Boron: Adjust value as needed to buffer pH to range indicated. Record final value in test report.
 - d. Soluble Copper: 0.20 ppm, maximum.
 - e. Conductivity: 3500 μ S/cm, maximum.
 - f. Free Caustic Alkalinity: 20 ppm, maximum.
 - g. Microbiological Limits:
 - 1) Total Aerobic Plate Count: 1000 organisms/ml, maximum.
 - 2) Total Anaerobic Plate Count: 100 organisms/ml, maximum.
 - 3) Nitrate Reducers: 100 organisms/ml, maximum.
 - 4) Sulfate Reducers: 0 organisms/ml.
 - 5) Iron Bacteria: 0 organisms/ml.
4. Open Hydronic Systems (including condenser water):
 - a. Acidity (pH): 8.0 to 9.1.
 - b. "P" Alkalinity: 50 ppm, maximum.
 - 1) Soluble Copper: 0.20 ppm, maximum.
 - c. Conductivity: 1500 μ S/cm.
 - d. Free "OH" Alkalinity: 0 ppm.
 - e. Microbiological Limits:
 - 1) Total Aerobic Plate Count: 10,000 organisms/ml, maximum.
 - 2) Total Anaerobic Plate Count: 1,000 organisms/ml, maximum.
 - 3) Nitrate Reducers: 100 organisms/ml, maximum.
 - 4) Sulfate Reducers: 0 organisms/ml.
 - 5) Iron Bacteria: 0 organisms/ml.
 - f. Polymer Testable: 10 to 40.
5. Passivation for Galvanized Steel (cooling tower applications): For the first 60 days of operation.
 - a. pH: 7 to 8.
 - b. Calcium Carbonate Hardness: 100 to 300 ppm.
 - c. Calcium Carbonate Alkalinity: 100 to 300 ppm; pH shall not exceed 8 as the controlling limit.

1.5 MAINTENANCE SERVICE

- A. Scope of Maintenance Service: Provide chemicals and service (all labor) program to maintain required water conditions and quality for chilled-water piping, heating hot-water piping, and dual temperature-water piping, condenser-water piping, and related equipment. Services and

chemicals shall be provided for a period of one year from date of Preliminary Acceptance, and shall include the following:

1. Initial water analysis (conducted at Site) and HVAC water-treatment recommendations. Written report of the findings to be left with the Board and a copy of such report shall be forwarded to both the commissioning agent and consulting engineer.
2. Startup assistance for Contractor to flush the systems, clean with detergents, and initially fill systems with required glycol/chemical treatment prior to operation.
3. Periodic field service and consultation. Include all work specified. Check for proper operation of all pumps, controllers, meters, and sensors. Calibrate sensors as required. Check chemical tank levels and inventory, and arrange chemical deliveries well in advance of needs.
4. Customer report charts and log sheets.
5. Laboratory technical analysis.
6. Analyses and reports of all chemical items concerning safety and compliance with government regulations.
7. Train Board's operating personnel with the operation and adjustment of each piece of equipment / system, care and handling of treatment chemicals, and water test control procedures including basic water chemistry and the importance of water treatment.

1.6 WARRANTY

- A. Written warranty, executed by manufacturer agreeing to repair or replace components or equipment that fail in materials or workmanship within warranty period indicated.
 1. Warranty Period: One year from date of Preliminary Acceptance or eighteen months from date of shipment from factory, whichever is longer.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Nalco, an Ecolab Company
- B. Earthwise Environmental.
- C. H-O-H Chemicals, Inc.
- D. US Water
- E. Global Water Technology, Inc.

2.2 MATERIALS

- A. System Cleaner:
 1. Liquid alkaline compound with emulsifying agents and detergents to remove grease and petroleum products; sodiumtripoly phosphate and sodium molybdate.
 2. Biocide chlorine release agents such as sodium hypochlorite or calcium hypochlorite or microbiocides such as quarternary ammonia compounds, tributyltin oxide, methylene bis (thiocyanate).
- B. Closed System Treatment (Water):
 1. Sequestering agent to reduce deposits and adjust pH; polyphosphate.

2. Corrosion inhibitors; boron-nitrite, sodium nitrite and borax, sodium tolyltriazole, low molecular weight polymers, phosphonates, sodium molybdate, or sulphites.
3. Conductivity enhancers; phosphates or phosphonates.

C. Glycol (Closed Systems):

1. Propylene Glycol: HVAC grade, containing corrosion inhibitors and environmental stabilizer additives for mixing with softened water. Softened water shall be used to dilute the glycol to 30 percent by volume in the system.
 - a. Industrial/automotive/marine/raw glycol shall NOT be used in any HVAC application.

D. Condenser Water System Treatment (Cooling Towers):

1. Sequestering agent to inhibit scaling; phosphonates, sodium polyphosphates, lignin derivatives, synthetic polymer polyelectrolytes, or organic phosphates.
2. Acid to reduce alkalinity and pH; sulphuric acid.
3. Corrosion inhibitor; zinc-phosphate, phosphonate-phosphate, phosphonate-molybdate and phosphonate-silicate, sodium tolyltriazole, or low molecular weight polymers.
4. Biocide chlorine release agents such as sodium hypochlorite or calcium hypochlorite.

2.3 BY-PASS (POT) FEEDER

A. Manufacturers:

1. Griswold Controls
2. J. L. Wingert Company
3. Neptune, a brand of the Dover Company

B. Bypass Feeders: Steel, with corrosion-resistant exterior coating, minimum 3-1/2-inch fill opening in the top, and NPS 3/4 bottom inlet and top side outlet. Quarter turn or threaded fill cap with gasket seal and diaphragm to lock the top on the feeder when exposed to system pressure in the vessel.

1. Capacity: 5 gallons.
2. Minimum Working Pressure: 125 psig.

2.4 SOLUTION METERING PUMP

A. Chemical Solution Injection Pumps:

1. Self-priming, positive-displacement; rated for intended chemical with minimum 25 percent safety factor for design pressure and temperature.
2. Adjustable flow rate.
3. Metal and thermoplastic construction.
4. Built-in relief valve.
5. Fully enclosed, continuous-duty, single-phase motor. Comply with requirements in Section 23 05 13 - Common Motor Requirements for HVAC Equipment.

B. Chemical Solution Tubing: Polyethylene tubing with compression fittings and joints.

C. Injection Assembly:

1. Quill: Minimum NPS 1/2 with insertion length sufficient to discharge into at least 25 percent of pipe diameter.
2. Ball Valve: Two-piece, stainless steel as described in "Stainless-Steel Pipes and Fittings" Article, and selected to fit quill.

3. Packing Gland: Mechanical seal on quill of sufficient length to allow quill removal during system operation.
4. Assembly Pressure/Temperature Rating: Minimum 600 psig at 200 deg F.

2.5 SOLUTION TANKS

- A. 120 gallon capacity, polyethylene, self-supporting, 1 gallon graduated markings; molded fiberglass cover with recess for mounting pump, agitator, and liquid level switch.
- B. Minimum 110% containment vessel

2.6 LIQUID LEVEL SWITCH

- A. Polypropylene housing with integrally mounted PVC air trap, receptacles for connection to metering pump, and low level alarm.

2.7 ACIDITY (PH) CONTROLLER (OPEN SYSTEMS REQUIRING ACID INJECTION FOR ACIDITY (PH) CONTROL):

- A. Microprocessor-based controller, 1 percent accuracy in a range from zero to 14 units. Incorporate solid-state integrated circuits and digital LCD display in NEMA 250, Type 12 enclosure with gasketed and lockable door.
- B. Digital display and touch pad for input.
- C. Sensor probe adaptable to sample stream manifold.
- D. High, low, and normal pH indication.
- E. High or low pH alarm light, trip points field adjustable; with silence switch.
- F. Hand-off-auto switch for acid pump.
- G. Internal adjustable hysteresis or deadband.
- H. Building automation system alarm dry contacts.
- I. Audible alarm and light.
- J. Provide a backup safety timer for systems requiring acid injection that will shut off the acid pump after a fixed time, to protect against pH controller failure.

2.8 CONDUCTIVITY CONTROLLER (OPEN SYSTEMS - COOLING TOWERS):

- A. Microprocessor-based controller, 1 percent accuracy in a range from zero to 5000 micromhos. Incorporate solid-state integrated circuits and digital LCD display in NEMA 250, Type 12 enclosure with gasketed and lockable door
- B. Digital display and touch pad for input.
- C. Sensor probe adaptable to sample stream manifold.

- D. High, low, and normal conductance indication.
- E. High or low conductance alarm light, trip points field adjustable; with silence switch.
- F. Hand-off-auto switch for solenoid bleed-off valve.
- G. Bleed-off valve activated indication.
- H. Internal adjustable hysteresis or deadband.
- I. Building automation system alarm dry contacts.
- J. Audible alarm and light.
- K. Bleed Valves:
 - 1. Cooling Systems: Forged-brass body, globe pattern, general-purpose solenoid with continuous-duty coil, or motorized valve.

2.9 WATER METER

- A. Water Meter:
 - 1. Type: AWWA C700, oscillating-piston, magnetic-drive, tantalization meter.
 - 2. Body: Bronze.
 - 3. Minimum Working-Pressure Rating: 150 psig.
 - 4. Maximum Pressure Loss at Design Flow: 3 psig.
 - 5. Registration: Gallons or cubic feet.
 - 6. End Connections: Threaded or flanged.
 - 7. Controls: Flow-control switches with normally open contacts; rated for maximum 10 A, 250-V ac; and that will close at adjustable increments of total flow. Hardwired to both the chemical controller and the building automation system (BAS).
- B. Water Meter:
 - 1. Type: AWWA C701, turbine-type, tantalization meter.
 - 2. Body: Bronze.
 - 3. Minimum Working-Pressure Rating: 150 psig.
 - 4. Maximum Pressure Loss at Design Flow: 3 psig.
 - 5. Registration: Gallons or cubic feet.
 - 6. End Connections: Threaded or flanged.
 - 7. Controls: Flow-control switch with normally open contacts; rated for maximum 10 A, 250-V ac; and that will close at adjustable increments of total flow. Hardwired to both the chemical controller and the building automation system (BAS).

2.10 SOLENOID VALVES

- A. Forged brass body globe pattern, normally open or closed as required, explosion-proof and watertight solenoid enclosure, and continuous duty coil.

2.11 TIMERS

- A. Inhibitor Injection Timers (Open Systems):

1. Microprocessor-based controller with LCD display in NEMA 250, Type 12 enclosure with gasketed and lockable door.
2. Programmable timers with infinite adjustment over full range, and mounted in cabinet with hand-off-auto switches and status lights.
3. Test switch.
4. Hand-off-auto switch for chemical pump.
5. Illuminated legend to indicate feed when pump is activated.
6. Programmable lockout timer with indicator light. Lockout timer to deactivate the pump and activate alarm circuits.
7. LCD makeup totalizer to measure amount of makeup and bleed-off water from two water meter inputs.
8. Building automation system alarm dry contacts.
9. Audible alarm and light.

B. Biocide Feeder Timer (Open Systems - Cooling Towers):

1. Microprocessor-based controller with digital LCD display in NEMA 250, Type 12 enclosure with gasketed and lockable door.
2. 24-hour timer with 14-day skip feature to permit activation any time of day.
3. Precision, solid-state, bleed-off lockout timer and clock-controlled biocide pump timer. Prebleed and bleed lockout timers.
4. Solid-state alternator to enable use of two different formulations.
5. 24-hour display of time of day.
6. 14-day display of day of week.
7. Battery backup so clock is not disturbed by power outages.
8. Hand-off-auto switches for biocide pumps.
9. Biocide A and Biocide B pump running indication.
10. Building automation system alarm dry contacts.
11. Audible alarm and light.

2.12 TEST EQUIPMENT

- A. Test Kit: Manufacturer-recommended equipment and chemicals in a wall-mounted cabinet for testing pH, conductivity, inhibitor, chloride, alkalinity, and hardness; include sulfite and testable polymer tests for high-pressure boilers, oxidizing biocide test for open cooling systems, glycol test kit for closed loop heating/cooling/dual temperature systems, and other test equipment as required by the water treatment supplier.
- B. Portable Glycol Test Kit Assembly: Kit shall include sample container, chart, carrying case, instructions, all components required to determine the type of glycol, percent of glycol to water by volume, and condition of glycol (contamination) in the field.
- C. Corrosion Test-Coupon Assembly: Constructed of 1-inch diameter corrosion resistant material, complete with piping, valves, 0-20 gpm flow meter and control valve, and mild steel and copper coupons. Alternatively, the assembly may be constructed from 1-inch black iron pipe, to provide additional surfaces for corrosion evaluation. The assembly shall be installed in the vertical plane, properly supported, with water flow from the bottom to the top of the assembly.
 1. Two-station rack for closed-loop systems.
 2. Four-station rack for open systems.

2.13 SIDE-STREAM FILTRATION SYSTEM

- A. Manufacturers:
 - 1. PEP Filters, Inc.
 - 2. Cuno.
 - 3. Watts.
- B. Description: Floor-mounting housing with multiple filter cartridges (minimum 4) for removing particles from water.
 - 1. Housing: Stainless steel; designed to separate inlet from outlet and to direct inlet through multiple cartridge-type water filters; with base, feet, or skirt.
 - a. Pipe Connections NPS 2 and Smaller: Threaded according to ASME B1.20.1.
 - b. Stainless Steel Housing Pipe Connections NPS 2-1/2 and Larger: Stainless Steel, Class 150 flanges according to ASME B16.5 or grooved according to AWWA C606.
 - c. Tool free replacement of filters (V-Band Clamp, etc.).
 - d. Top vent with valve.
 - e. Bottom drain with valve.
 - f. Pressure and temperature taps across unit.
 - 2. Multi-Filter Cartridges: Wound polypropylene media with a tin core, 0-20 micron rating, and a maximum temperature rating of 200 deg F; sized to properly fit the filter vessel. The minimum flow rate shall be the greatest of 5% of system pump flow rate/filtration of the entire system volume every 4 hours or 25 GPM. Pressure drop through clean filters at flow rate above shall not exceed 2 psig. Filter cartridges shall be furnished in a quantity sufficient for six (6) complete changes of the filter vessel. Filter cartridges shall be changed when the pressure drop across the filter vessel exceeds 6 psi.

2.14 STAINLESS-STEEL PIPES AND FITTINGS

- A. Stainless-Steel Tubing: Complying with ASTM A269/A269M, Type 316.
- B. Stainless-Steel Fittings: Complying with ASTM A815/A815M, Type 316, Grade WP-S.
- C. Two-Piece, Full-Port, Stainless-Steel Ball Valves: ASTM A351/A351M, Type 316 stainless-steel body; ASTM A276/A276M, Type 316 stainless-steel stem and vented ball; carbon-filled TFE seats; threaded body design with adjustable stem packing; threaded ends; 250-psig SWP and 600-psig CWP ratings.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Systems shall be operational, filled, started, and vented prior to cleaning. Use water meter to record capacity in each system.
- B. Place terminal control valves in open position during cleaning.
- C. Verify that electric power is available and of the correct characteristics.

3.2 CLEANING SEQUENCE

- A. Concentration:
 - 1. As recommended by manufacturer.
- B. Hot Water Heating and Dual Temperature Systems:
 - 1. Apply heat while circulating, slowly raising temperature to 160 degrees F and maintain for 12 hours minimum.
 - 2. Remove heat and circulate to 100 degrees F or less; drain systems as quickly as possible and refill with clean water.
 - 3. Circulate for 6 hours at design temperatures, then drain.
 - 4. Refill with clean water and repeat until system cleaner is removed.
- C. Chilled Water Systems:
 - 1. Circulate for 48 hours, then drain systems as quickly as possible.
 - 2. Refill with clean water, circulate for 24 hours, then drain.
 - 3. Refill with clean water and repeat until system cleaner is removed.
- D. Use neutralizer agents on recommendation of system cleaner supplier and approval of Architect/Engineer of Record.
- E. Flush open systems and glycol filled closed systems with clean water for one hour minimum. Drain completely and refill.
- F. Remove, clean, and replace strainer screens.
- G. Inspect, remove sludge, and flush low points with clean water after cleaning process is completed. Include disassembly of components as required.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.

3.4 CLOSED SYSTEM TREATMENT

- A. Provide one bypass feeder on each system. Install isolating and drain valves and necessary piping. Install around balancing valve downstream of circulating pumps unless indicated otherwise.
- B. Introduce closed system treatment through bypass feeder when required or indicated by test.
- C. Provide 3/4 inch water coupon rack around circulating pumps with space for 4 test specimens.
- D. Multi-Cartridge Side Stream Filter: Install in all closed hydronic systems, and equipped with the following:
 - 1. Install multi-cartridge side stream filter in a bypass circuit around circulating pumps.
 - 2. Install a full-port ball isolation valves on inlet, outlet, vent and drain below feeder inlet.
 - 3. Install a swing check on inlet after the isolation valve.
 - 4. Install on 4-inch high equipment pad.
- E. Provide 30% by volume inhibited glycol mix in all closed hydronic systems.

1. Glycol to be propylene for new systems or where propylene is currently used.
- F. Install pressure fill units on all closed hydronic systems and include the following:
1. Install water meter in makeup water supply. Coordinate totalization signal with building automation system.
 2. Coordinate alarm signal tie in to building automation system.
 3. Provide pressure regulator set at the difference in height (in psig) between the discharge of the pressure regulator to the highest point in the system plus 5 psig.
- 3.5 CONDENSER WATER SYSTEMS (COOLING TOWERS)
- A. Provide automatic condenser water control systems for inhibitor feed, blowdown and biocide feeds. Inhibitor application shall be meter activated, blowdown shall be conductivity activated, and biocide shall be meter fed with blowdown locked out to ensure biocide retention time.
- B. Control system shall incorporate solid state integrated circuits and digital LED displays, in NEMA-12 steel enclosure. Provide gasketed and lockable door.
- C. Base dissolved solids control on conductivity and include:
1. LED digital readout display (micro-ohm/cm).
 2. Temperature compensated sensor probe adaptable to sample stream manifold.
 3. High, low, normal conductance indicator lights (LED).
 4. High or low conductance alarm light (flash or steady switch), trip points field adjustable. Flash or steady switch shall have silence position.
 5. Illuminated legend shall indicate "ALARM" whenever alarm condition exists.
 6. Hand-off-automatic switch for solenoid bleed valve.
 7. Illuminated legend shall indicate "BLEED" when valve is operated.
 8. Adjustable hysteresis or dead-band (internal).
- D. Base inhibitor feed control on make-up volume and include:
1. Solid state counter (1-15 field selectable).
 2. Solid state timer (adjustable 1/4 to 5 minutes).
 3. Test switch.
 4. Hand-off-automatic switch for chemical pump.
 5. Illuminated legend shall indicate "FEED" when pump is activated.
 6. Solid state lock-out timer (adjustable 1/4 to 3 hours) and indicator light. Lock-out timer shall deactivate the pump and activate alarm circuits.
 7. Panel totalizer (amount of makeup), electro-mechanical type.
- E. Biocide programmer to include:
1. 24 hour timer with 14 day skip feature to permit activation any hour of the day.
 2. Precision solid state bleed lock-out timer (0-9 hours) and biocide pump timer (0 - 2-1/4 hours), clock controlled.
 3. Solid state alternator to enable the use of two different formulations.
 4. Digital display of the time of day (24 hours).
 5. LED display of day of week (14 days).
 6. Fast and slow clock set controls (internal).
 7. Battery back-up so clock is not disturbed by power outages, quartz timekeeping accuracy.
 8. Hand-off-automatic switches for biocide pumps.
 9. Illuminated legend shall indicate "BIOCIDE A" or "BIOCIDE B" when pump is activated.

- F. Provide water meter on system make-up, wired to control system.
- G. Provide solution pumps to feed sequestering agent and corrosion inhibitor from solution tank into condenser water supply to tower. Provide agitator as required.
- H. Provide conductivity controller to sample condenser water and operate 1 inch solenoid bleed valve and piping to blowdown controller sampler wired to open when condensing water pump is operating.
- I. Introduce biocide to tower by intermittent slug feed.
- J. Provide liquid level switch in each solution tank to deactivate solution pump and agitator and sound local alarm bell.
- K. Provide 3/4 inch water coupon rack around circulating pumps with space for 4 test specimens.
- L. Centrifugal Separator: Install in all open hydronic systems (condenser water), and equipped with the following:
 - 1. Install centrifugal separator in a bypass circuit around circulating pumps.
 - 2. Install a full-port ball isolation valves on inlet, outlet, and vent.
 - 3. Install a motorized purge valve at the outlet and pipe to floor drain.
 - 4. Install on 4-inch high equipment pad.
 - 5. Coordinate interlock of purge operation with building automation system.

3.6 PASSIVATION OF GALVANIZED STEEL (COOLING TOWERS)

- A. General: Upon acceptance of condenser water system cleaning and first chemical treatment, add chemical to passivate all galvanized components of the cooling tower system in the first 60 days of operation. Maintain pH, Hardness and Alkalinity values as specified.

3.7 FIELD QUALITY CONTROL

- A. Perform tests and inspections and prepare test reports.
 - 1. Manufacturer's Field Service: Engage a factory-authorized service representative to inspect components, assemblies, and equipment installations, including connections, and to assist in testing.
- B. Tests and Inspections:
 - 1. Inspect field-assembled components and equipment installation, including piping and electrical connections.
 - 2. Inspect piping and equipment to determine that systems and equipment have been cleaned, flushed, and filled with water/glycol (as indicated), and are fully operational before introducing chemicals for water-treatment system.
 - 3. Place HVAC water-treatment system into operation and calibrate controls during the preliminary phase of HVAC system's startup procedures.
 - 4. Do not enclose, cover, or put piping into operation until it is tested and satisfactory test results are achieved.
 - 5. Test for leaks and defects. If testing is performed in segments, submit separate report for each test, complete with diagram of portion of piping tested.

6. Leave uncovered and unconcealed new, altered, extended, and replaced water piping until it has been tested and approved. Expose work that has been covered or concealed before it has been tested and approved.
 7. Cap and subject piping to static water pressure of 50 psig above operating pressure, without exceeding pressure rating of piping system materials. Isolate test source and allow test pressure to stand for four hours. Leaks and loss in test pressure constitute defects.
 8. Repair leaks and defects with new materials and retest piping until no leaks exist.
 9. Adjust water flow through corrosion coupon assemblies to equal a rate of 8 gpm = 3 ft./sec. through a 1-inch pipe, or lower flow as required by the Board.
- C. Remove and replace malfunctioning units and retest as specified.
- D. Sample boiler water at one-week intervals after boiler startup for a period of five weeks, and prepare test report advising the Board of changes necessary to comply with the specified performance requirements for water quality. Sample boiler water at four-week intervals following the testing noted above to show that automatic chemical-feed systems are maintaining water quality complying with performance requirements specified.
- E. At one week intervals for five weeks following Preliminary Acceptance / Substantial Completion, perform separate water analysis on hydronic systems to show that automatic chemical-feed systems are maintaining water quality complying with performance requirements specified and prepare written report of findings, including changes necessary to ensure water quality is maintained in accordance with specified performance requirements. Submit copy of written reports to the Board.
- F. Comply with ASTM D3370 and with the following standards:
1. Silica: ASTM D859.
 2. Acidity and Alkalinity: ASTM D1067.
 3. Iron: ASTM D1068.
 4. Water Hardness: ASTM D1126.

3.8 CLOSEOUT ACTIVITIES

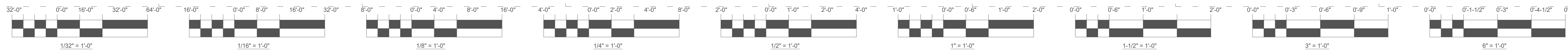
- A. Training: Train Board's personnel on operation and maintenance of chemical treatment system.
1. Provide minimum of two sessions of 4 hours of instruction for two people.
 2. Have operation and maintenance data prepared and available for review during training.
 3. Conduct training using actual equipment after treated system has been put into full operation.

3.9 DEMONSTRATION AND TRAINING

- A. Engage a factory-authorized service representative to train Board's designated maintenance personnel to adjust, operate, and maintain HVAC water-treatment systems and equipment. Refer to Division 01.
1. Train Board's maintenance personnel on procedures and schedules for starting up and shutting down, troubleshooting, servicing, and maintaining the systems and equipment. The training will occur after the startup/cleaning report has been provided to the Board and the trainer will provide two (2) Installation and Operations manuals for the use of the Board's personnel during training. Training shall be provided in two separate 4-hour sessions. Sessions shall not occur on the same day.

2. Review data in maintenance manuals. Refer to Division 01. All required and recommended maintenance will be reviewed as well as operational troubleshooting. If the Installation and Operations Manual does not include a written troubleshooting guide one shall be provided.
 3. Schedule training with the Board, through Architect/Engineer of Record, with at least seven days' advance notice.
- B. Demonstrate proper operation of equipment to commissioning agent or designated Board personnel. The scope of the demonstration will include functional performance requirements under both local and building automation control as well as any commissioning requirements specified in Divisions 01 and 23.

END OF SECTION 232500



1 EXTERIOR LEAD BASED PAINT MITIGATION
EAST ELEVATION FIRE ESCAPE AND LADDER

- LEAD BASED PAINT MITIGATION SCOPE OF WORK:**
- The Abatement Contractor is responsible for the complete mitigation of all loose and failing paint films. Paint films shall be removed back to tightly adhered areas. All edges shall be wet sanded to create a smooth transition where paint films have been removed.
 - coordinate location of repairs involving torch cutting by the General Contractor for full removal of paint in these locations.
 - Abatement Contractor shall coordinate abatement with General Contractor.
 - All work per Specification Section 02 83 19.13.

- GENERAL NOTES:**
- Contractor shall adhere to all record keeping and reporting requirements as detailed in Illinois Department of Public Health (IDPH) regulations (Illinois Administrative Code Part 845-Lead Poisoning Prevention Code).
 - Work Practice and Occupant Protection Plan (845-255) will be required to be submitted to Carnow Conibear prior to start of work. Work Practice and Occupant Protection Plan shall be prepared by licensed Project Supervisor. Contractor is required to use the attached Lead Compliance Form for this project. Contractor Supervisor shall provide forms for each area to be completed. No compliance investigation (clearance sampling) will begin until the signed Lead Compliance Form has been received. The Lead Compliance Form can be found attached to specification 02 83 19.13.
 - Abatement Contractor shall select and apply an appropriate primer based upon criteria specified in AOR Specification Package. Abatement Contractor responsible for coordination of surface preparation at all areas where lead-based paint mitigation occurs. AC responsible to ensure that any primer paints utilized are approved for use by General Contractor/Painting Subcontractor.
 - All wastes generated during the LBP mitigation activities shall be separated and TCLP'd, by the Abatement Contractor, by homogenous materials (i.e.: suits, towels, water, paint chips, poly, etc.). All costs associated with any TCPL analysis or disposal shall be incurred by the Abatement Contractor. Materials which leach lead in concentrations of 5mg/L or greater, as measured by the TCLP process, must be disposed of as hazardous waste. Materials which leach lead in concentrations of less than 5mg/L shall be disposed of as special waste or at an approved Subtitle D facility.
 - The contractor is responsible for verifying quantities in the field before bidding. Any questions about the scope or clarifications shall be obtained from the Project Designer prior to bidding. Any interpretations of the design documents shall only be made by the Project Designer. The abatement contractor shall be responsible for removing any ACM which will be disturbed during renovation activities, prior to renovation activities.
 - The Environmental Scope is an integral part of the Architect of Record (AOR) total specifications package; therefore, it shall be used in conjunction with the total specification package. **The term "refer to AOR Documents for details" is meant to be an addition to what the architect has indicated on his drawings and by no means limits the work to what is shown on the architect's drawings.**
 - Contractor shall paint entire metal system with a primer suitable for adhesion to a metal surface. New paint films shall be applied following all appropriate specification sections in the AOR documents. Coordinate all work with General Contractor.
 - A Work Practices and Occupant Protection Plan (as detailed in IDPH Lead Poisoning Prevention Code Section 845 255) will be required to be submitted and approved prior to start of any lead mitigation/abatement work. This plan shall be reviewed by the MEC and AOR to ensure appropriate measure are being implemented to prevent lead exposures to surrounding community or school occupants.
 - Sandblasting, grinding and chemical washing of buildings, facilities and other structures require permit from the City of Chicago - Ordinance 11-4-2190.
 - Mitigation Contractor must be USEPA RRP certified.



GENERAL ENVIRONMENTAL NOTES

WARNING: VARIOUS COMPONENTS/SURFACES WITHIN THE BUILDING HAVE TESTED ABOVE AND BELOW THE LEAD THRESHOLD OF 1.0 MG/CM2 REGARDLESS OF CONCENTRATIONS, THERE IS A POTENTIAL FOR LEAD DUST GENERATION DURING DRILLING, CORING, PAINTING PREPARATION AND OTHER RENOVATION ACTIVITIES FOR ALL SMALL SCALE DISTURBANCES. THE CONTRACTOR SHALL FACILITATE THE APPROPRIATE MEASURES FOUND IN PROJECT SPECIFICATIONS TO PREVENT DUST MITIGATION TO OTHER PARTS OF THE BUILDING. LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (1926.62) COMPLIANCE. WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SPECIFICATIONS PROJECT SPECIFICATIONS.

WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

DOB STAMP APPROVAL

SEAL | DATE 10/31/19

Legler Regional Library Renovation
115 S. Pulaski Road
Chicago, IL 60624
CHICAGO PUBLIC LIBRARY
CITY OF CHICAGO, MAYOR LORI LIGHTFOOT

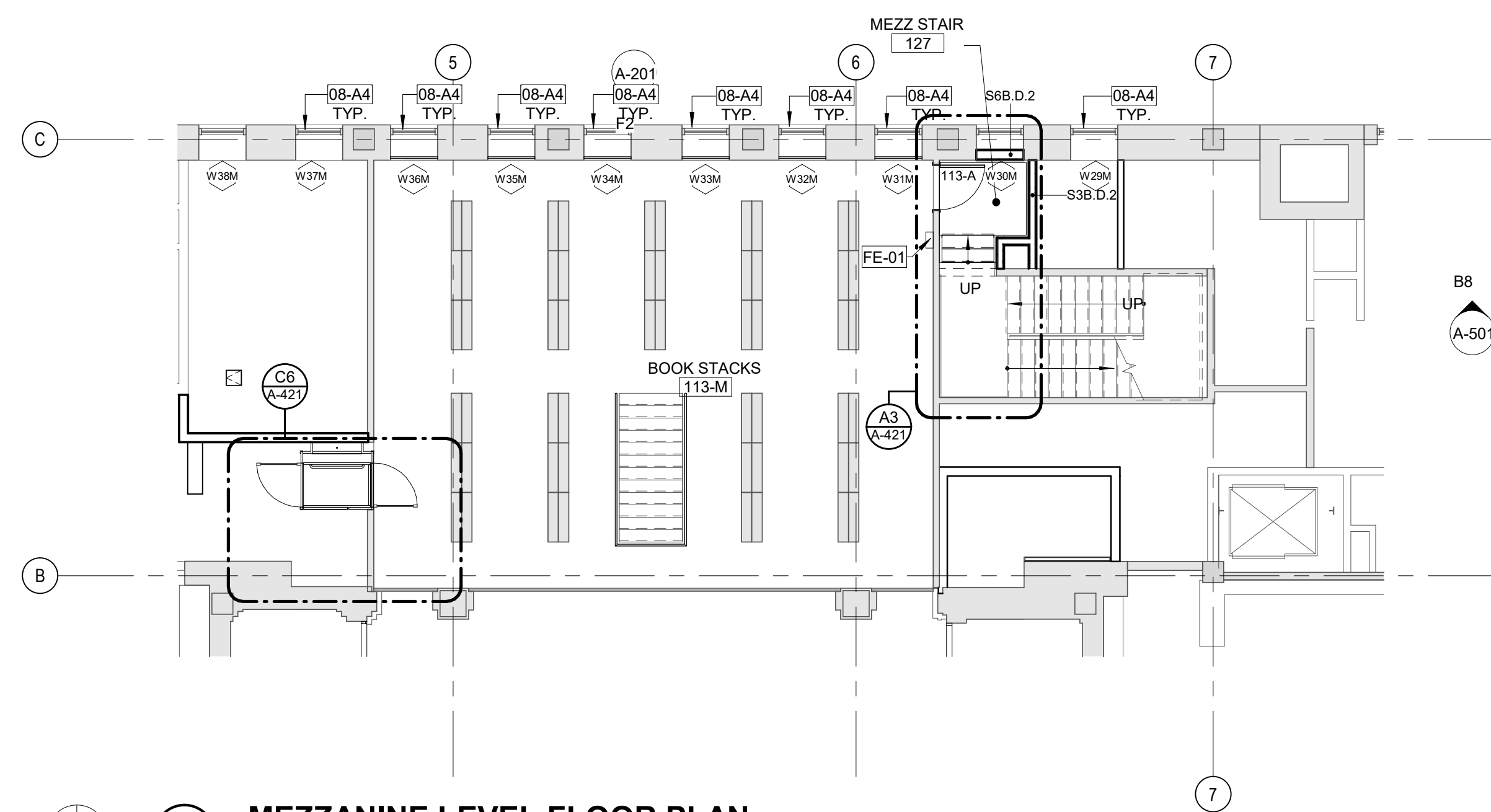
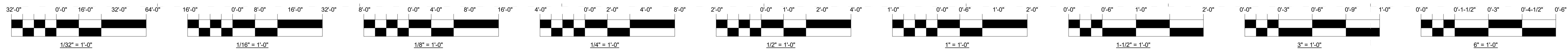
Architect of Record:
RATIO

ADDRESS: 30 West Monroe Street, Suite 500
Chicago, Illinois 60603
PHONE: 312-465-2359
FAX:
WEB: www.ratiodesign.com

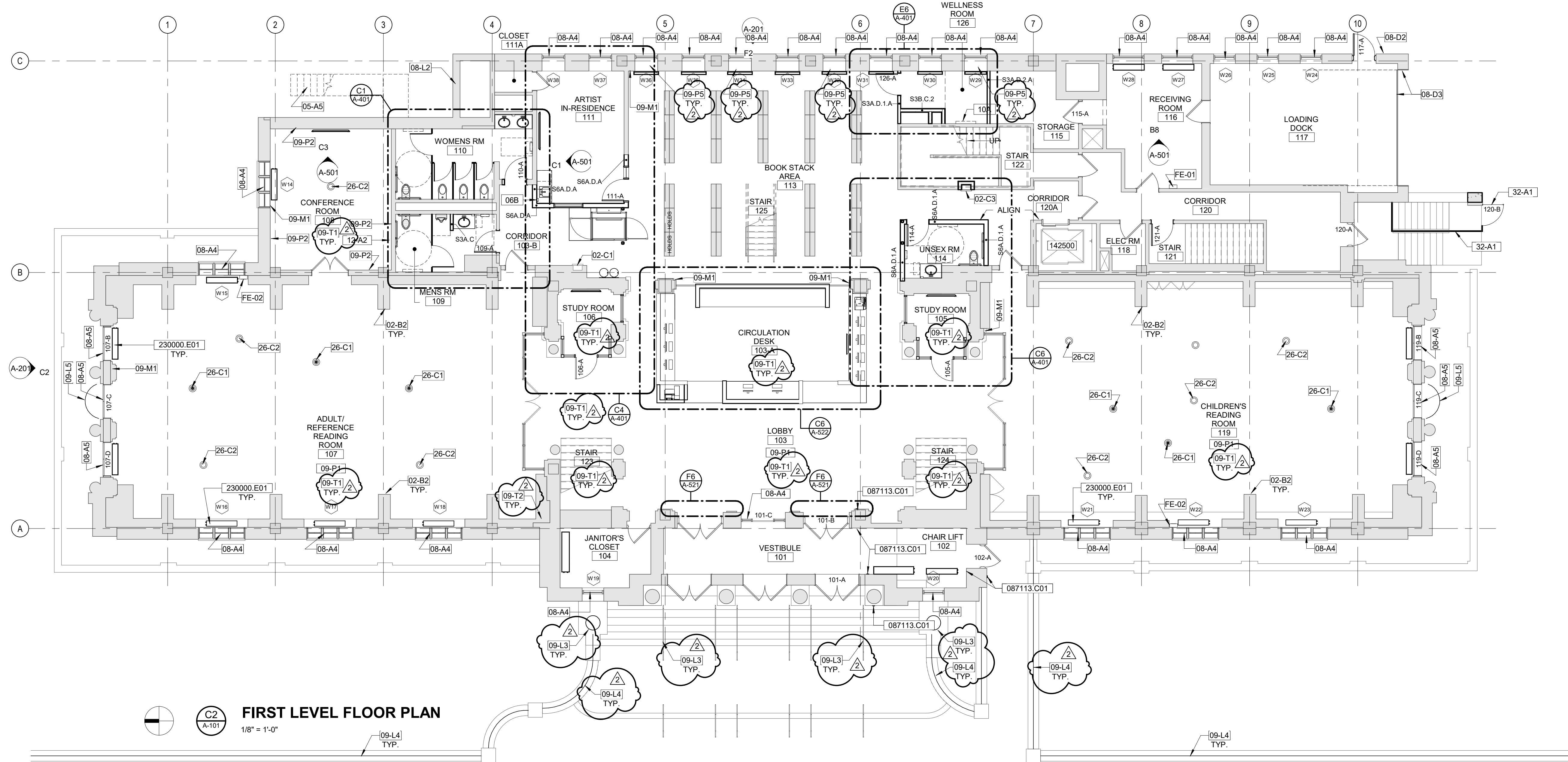
- TERRA Engineering Ltd.**
225 W. Ohio Street, 4th Floor, Chicago, IL 60604
(312) 467-0123
Civil Engineers of Record
- Stearn-Joglekar, Ltd.**
223 W. Jackson Blvd # 1110, Chicago, IL 60606
(312) 461-1800
Structural Engineers of Record
- Brush Architects, LLC**
4200 N. Francisco Ave, Chicago, IL 60618
(312) 925-3070
Facade Consultant
- RCL Engineering Group**
PO BOX 4458, Skokie, IL 60076
(847) 985-3366
Roofing Consultant
- db | HMS**
303 W. Erie St #510, Chicago, IL 60654
(312) 915-0557
MEPPP Engineers of Record
- Gwen Grossman Lighting Design**
53 W. Jackson Blvd, Chicago, IL 60604
(312) 877-5125
Lighting Design Consultant
- Lerch Bates Inc.**
210 S. Jefferson St, Suite LL2, Chicago, IL 60661
(312) 332-5444
Elevator Consultant
- Carnow, Conibear & Assoc., Ltd.**
600 West Van Buren, Suite 500, Chicago, IL 60607
(312) 782-4486
Environmental Consultant

Mark	Description	Date
1	ISSUE FOR BID	11/13/19
2	ADDENDUM #3	12/5/19

PBC Project Name: Legler Regional Library
PBC Contract No.: C1597
PBC Project No.: 08310
Title:
LEAD BASED PAINT MITIGATION EXTERIOR FIRE ESCAPE AND LADDER
Sheet:
LBP-003



MEZZANINE LEVEL FLOOR PLAN
1/8" = 1'-0"



FIRST LEVEL FLOOR PLAN
1/8" = 1'-0"

GENERAL FLOOR PLAN NOTES

- A. THESE GENERAL NOTES APPLY TO A-100 SERIES FLOOR PLAN DRAWINGS.
- B. SEE PROJECT GENERAL NOTES, SYMBOLS AND MOUNTING HEIGHTS ON SHEET A-001.
- C. SEE PARTITION TYPES, ACOUSTIC CONSIDERATIONS AND DEVICE MOUNTING LOCATIONS ON SHEET A-002.

KEYNOTE LEGEND

KEYNOTE	DESCRIPTION
02-B2	EXISTING WOOD BOOKCASES, PROTECT DURING CONSTRUCTION.
02-C1	EXISTING BRONZE FIRE EXTINGUISHER CABINET TO REMAIN. CLEAN & POLISH, AND PROVIDE FE-04. PROTECT DURING CONSTRUCTION.
02-C3	RE-INSTALLED SALVAGED BRONZE FIRE EXTINGUISHER CABINET. PROVIDE 2HR ENCLOSURE AROUND FEC. CLEAN & POLISH, AND PROVIDE FE-04.
05-A5	IN-KIND FIRE ESCAPE REPAIRS TO BE PERFORMED UNDER SEPARATE PERMIT. SEE A-202 FOR IN-KIND FIRE ESCAPE REPAIRS.
08-A4	REFER TO EXISTING WINDOW SCHEDULE ON A-621 FOR SCOPE OF WORK.
08-A5	REFER TO EXISTING EXTERIOR WOOD DOOR SCHEDULE ON A-601 FOR SCOPE OF WORK.
08-D2	DOOR TO RECEIVE KEY CARD ACCESS READER.
08-D3	REPLACE AND PAINT PERIMETER GARAGE DOOR TRIM, STRIP AND PAINT GARAGE DOORS. REPAIR AND LUBRICATE GARAGE DOOR HARDWARE.
08-L2	REMOVE DIRT AND DEBRIS FROM EXISTING EXTERIOR LOUVERS. CLEAN EXTERIOR LOUVERS AND INTAKE SHAFT. PAINT TO MATCH EXISTING. SEE SPEC 099600.
09-L3	RAILINGS, WINDOW SCREENS, FLAG POLE, LAMP POLE, AND ANY EXTERIOR ORNAMENTAL IRON WORK ATTACHED TO BUILDING TO BE RE-PAINTED HIGH PERFORMANCE EXTERIOR PAINT (SPT-01) PER SPECIFICATION 099600.
09-L4	PERIMETER FENCE AND GATES TO BE RE-PAINTED HIGH PERFORMANCE EXTERIOR PAINT (SPT-01) PER SPECIFICATION 099600 AND 323119 FOR STRIP AND PREPARATION OF IRON GATES AND PERIMETER FENCES.
09-L5	REMOVE AND REPLACE JULIET BALCONY RAILING TO MATCH EXISTING. RE-PAINTED HIGH PERFORMANCE EXTERIOR PAINT (SPT-01) PER SPECIFICATION 099600.
09-M1	REPLACE OR REPAIR BROKEN MARBLE BASE. REPAIR BROKEN BASE AT DECORATIVE WALL PLASTER.
09-P1	PATCH AND REPAIR PLASTER CEILING AS REQUIRED. SEE REFLECTED CEILING PLANS.
09-P2	NEW GIP-RED AND MTL FINISHING AT DEMOLISHED CASEWORK LOCATIONS. ALIGN GIP-RED WITH EXISTING FACE OF PLASTER.
09-P5	REMOVE AND SALVAGE WINDOW SILL, TRIM, GRILLE, BASE AND COVER PANEL. AS NECESSARY TO INSTALL NEW FIN TUBE, SEE MECHANICAL. REPAIR AND PATCH WALL TO MATCH EXISTING. RE-INSTALL WINDOW SILL, TRIM, GRILLE, BASE AND COVER PANEL.
09-T1	SURFACE MOUNTED CONDUITS, EXPOSED CONDUIT RACEWAYS, OR EXPOSED MECHANICAL / PLUMBING LINES WILL NOT BE ACCEPTED IN THESE ROOMS. CUT AND TRENCH WALLS AND CEILINGS TO CONCEAL CONDUITS. REPAIR & PATCH WALL, CEILING, AND DECORATIVE MOLDINGS TO MATCH ADJACENT. CONTRACTOR IS TO NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS AND/OR ISSUES OF INSTALLING THIS SCOPE OF WORK. REFER TO ELECTRICAL FOR MORE INFORMATION.
09-T2	MODIFY WALL AS REQUIRED TO CONCEAL NEW MECHANICAL PIPING. SEE MECHANICAL.
09-A2	EXISTING MECHANICAL WORK TO BE REMOVED PER THE CONTRACTOR'S REPAIR AND REVISIONS TO PREVENT DUST AND RE-INSTALLATION OF ARTWORK BY OTHERS.
26-C1	MULTI-SERVICE FURNITURE FEED POKE-THRU DEVICE. MODIFY EXISTING CONCRETE SLAB AS REQUIRED FOR NEW FLOOR POKE-THRU DEVICES. COORDINATE WITH ELECTRICAL.
26-C2	RECESSED FLOOR MOUNTED MULTI-SERVICE POKE-THRU DEVICE. MODIFY EXISTING CONCRETE SLAB AS REQUIRED FOR NEW FLOOR POKE-THRU DEVICES. COORDINATE WITH ELECTRICAL.
32-A1	EXTERIOR ORNAMENTAL METAL ENCLOSURE & GATE. SEE CIVIL & LANDSCAPE. SEE DOOR SCHEDULE FOR DOOR AND PANIC HARDWARE.
087113.C01	AUTOMATIC DOOR OPERATOR - PUSH-PLATE SWITCH
142900	HYDRAULIC ELEVATOR MODERNIZATION
230000.E01	FAN COIL UNIT, REFERENCE MECHANICAL DRAWINGS

GENERAL ENVIRONMENTAL NOTES

WARNING: VARIOUS COMPONENTS/SURFACES WITHIN THE BUILDING HAVE TESTED ABOVE AND BELOW THE LEAD THRESHOLD OF 1.0 MG/CM2 REGARDLESS OF CONCENTRATIONS, THERE IS A POTENTIAL FOR LEAD DUST GENERATION DURING DRILLING, CORING, PAINTING PREPARATION AND OTHER RENOVATION ACTIVITIES FOR ALL SMALL SCALE DISTURBANCES. THE CONTRACTOR SHALL FACILITATE THE APPROPRIATE MEASURES FOUND IN PROJECT SPECIFICATIONS TO PREVENT DUST MITIGATION TO OTHER PARTS OF THE BUILDING. LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (1926.62) COMPLIANCE, WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SPECIFICATIONS PROJECT SPECIFICATIONS.

WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

DOB STAMP APPROVAL

CHICAGO PUBLIC LIBRARY

SEAL / DATE 12/5/19

Leger Regional Library Renovation
115 S. Pulaski Road
Chicago, IL 60624
CHICAGO PUBLIC LIBRARY
CITY OF CHICAGO, MAYOR LORI LIGHTFOOT

Architect of Record:
RATIO

RATIO
30 West Monroe Street, Suite 500
Chicago, Illinois 60603
312-465-2359
www.ratiodesign.com

TERRA Engineering Ltd.
225 W. Ohio Street, 4th Floor, Chicago, IL 60654
(312) 467-0123
Civil Engineers of Record

Steam-Joglekar, Ltd.
223 W. Jackson Blvd # 1110, Chicago, IL 60606
(312) 461-1600
Structural Engineers of Record

Brush Architects, LLC
3125 S. Dearborn Ave, Chicago, IL 60618
(312) 925-3070
Facade Consultant

RCL Engineering Group
620 N. Dearborn Ave, Chicago, IL 60610
(847) 955-3366
Roofing Consultant

db | HMS
303 W. Erie St #510, Chicago, IL 60654
(312) 915-0577
MEPPF Engineers of Record

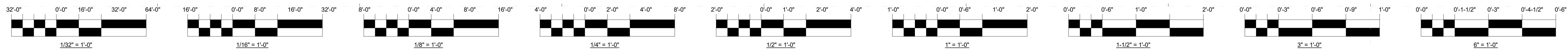
Gwen Grossman Lighting Design
63 W. Jackson Blvd, Chicago, IL 60604
(312) 877-5125
Lighting Design Consultant

Lerch Bates Inc.
216 S. Jefferson St, Suite L12, Chicago, IL 60661
(312) 332-5444
Elevator Consultant

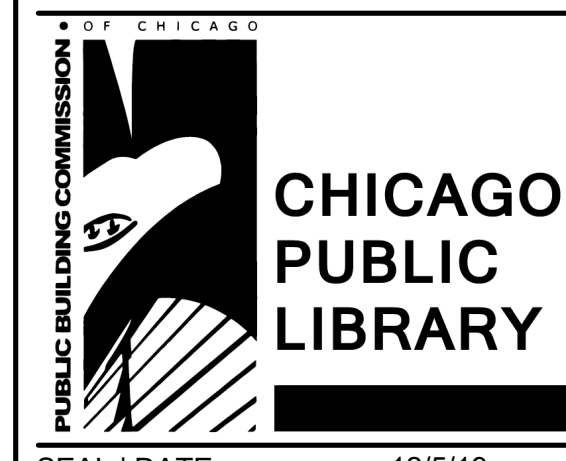
Carnow, Conibear & Assoc., Ltd.
600 West Van Buren, Suite 500, Chicago, IL 60607
(312) 762-4486
Environmental Consultant

Issue No.	Mark	Description	Date
1	ISSUE FOR BID		11/13/19
2	ADDENDUM #3		12/5/19

PBC Project Name: Leger Regional Library
PBC Contract No: C1597
PBC Project No.: 08310
FIRST LEVEL AND MEZZANINE LEVEL FLOOR PLAN



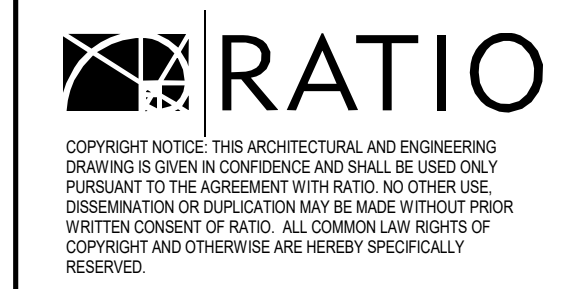
DOB STAMP APPROVAL



SEAL DATE 12/5/19

Leger Regional Library Renovation
 115 S. Pulaski Road
 Chicago, IL 60624
 CHICAGO PUBLIC LIBRARY
 CITY OF CHICAGO, MAYOR LORI LIGHTFOOT

Architect of Record:
RATIO



ADDRESS: 30 West Monroe Street, Suite 500
 Chicago, Illinois 60603
 PHONE: (312) 467-0123
 FAX: (312) 465-2359
 WEB: www.ratiodesign.com

TERRA Engineering Ltd.
 225 W. Ohio Street, 4th Floor, Chicago, IL 60654
 (312) 467-0123
 Civil Engineers of Record

Steam-Joglekar, Ltd.
 223 W. Jackson Blvd # 1110, Chicago, IL 60606
 (312) 461-1600
 Structural Engineers of Record

Brush Architects, LLC
 6200 N. Francisco Ave. Chicago, IL 60618
 (312) 925-3070
 Facade Consultant

RCL Engineering Group
 910 BOX 4458, Skokie, IL 60076
 (847) 955-3366
 Roofing Consultant

db | HMS
 303 W. Erie St #510, Chicago, IL 60654
 (312) 915-0577
 MEPFP Engineers of Record

Gwen Grossman Lighting Design
 63 W. Jackson Blvd, Chicago, IL 60654
 (312) 877-5125
 Lighting Design Consultant

Lerch Bates Inc.
 216 S. Jefferson St., Suite L12, Chicago, IL 60661
 (312) 332-5444
 Elevator Consultant

Carnow, Conibear & Assoc., Ltd.
 600 West Van Buren, Suite 500, Chicago, IL 60607
 (312) 762-4486
 Environmental Consultant

Mark	Description	Date
1	ISSUE FOR BID	11/13/19
2	ADDENDUM #2	11/27/19
3	ADDENDUM #3	12/5/19

PBC Project Name: Leger Regional Library
 PBC Contract No: C1597
 PBC Project No.: 08310

SECOND LEVEL FLOOR PLAN

Sheet

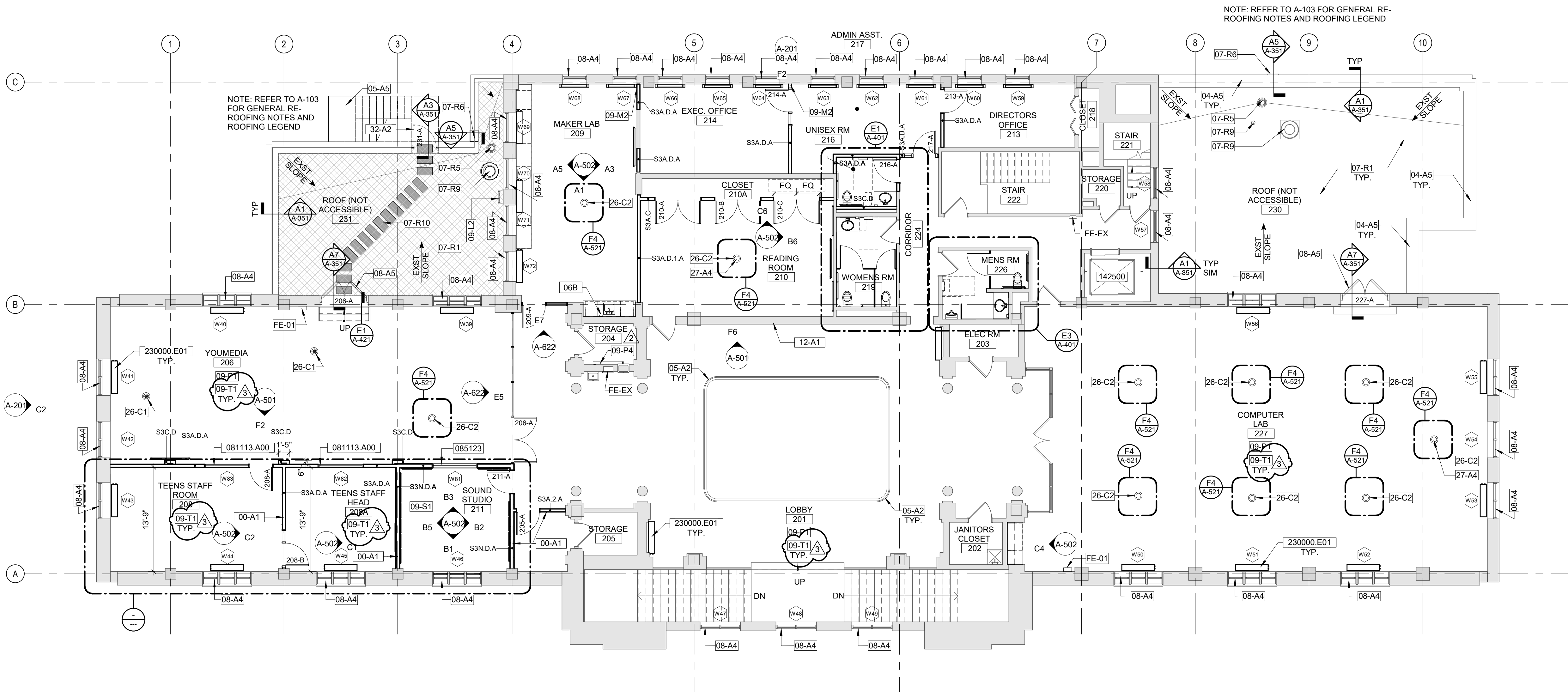
A-102

GENERAL FLOOR PLAN NOTES

- A. THESE GENERAL NOTES APPLY TO A-100 SERIES FLOOR PLAN DRAWINGS.
- B. SEE PROJECT GENERAL NOTES, SYMBOLS AND MOUNTING HEIGHTS ON SHEET A-001.
- C. SEE PARTITION TYPES, ACOUSTIC CONSIDERATIONS AND DEVICE MOUNTING LOCATIONS ON SHEET A-002.

KEYNOTE LEGEND

00-A1	CENTER WALL ON COLUMN GRID LINE
04-A5	REFER TO MASONRY RESTORATION DRAWINGS FOR TUCKPOINTING.
05-A2	REPAIR BENT OR DAMAGED VERTICAL PICKETS. PAINT ENTIRE RAILING WHITE.
05-A5	IN-KIND FIRE ESCAPE REPAIRS TO BE PERFORMED UNDER SEPARATE PERMIT. SEE A-202 FOR IN-KIND FIRE ESCAPE REPAIRS.
07-R1	NEW PVC ROOFING SYSTEM, 1/2" PROTECTION BOARD, 1 1/2" INSULATION, AND VAPOR RETARDER ON EXISTING SLOPED CONCRETE DECK WITH FLASHINGS AND ACCESSORIES. REFER TO SPEC 070150.19 FOR PREPARATION FOR ROOFING. 07-R1 ASSEMBLY R-VALUE: R-11
07-R5	EXISTING ROOF DRAIN TO BE REPLACED WITH NEW. PROVIDE EXTENSION. SEE PLUMBING DRAWINGS.
07-R6	EXISTING ROOF SCUPPER LOCATION
07-R9	EXISTING ROOF VENT TO REMAIN - PROVIDE EXTENSION TO MAINTAIN PROPER FLASHING
07-R10	PROVIDE WALK PADS AS SHOWN AND TO OPERABLE PORTIONS OF MECHANICAL EQUIPMENT WHETHER SHOWN OR NOT
08-A4	REFER TO EXISTING WINDOW SCHEDULE ON A-621 FOR SCOPE OF WORK
08-A5	REFER TO EXISTING EXTERIOR WOOD DOOR SCHEDULE ON A-601 FOR SCOPE OF WORK
09-L2	EXISTING ROOF ACCESS LADDER TO BE PAINTED. PROVIDE SEALANT AT LADDER EMBEDMENTS. SEE SPEC 099600.
09-M2	REFER TO CONVECTOR UNIT WALL PENETRATION DETAIL E21A-002.
09-P1	PATCH AND REPAIR PLASTER CEILING AS REQUIRED. SEE REFLECTED CEILING PLANS.
09-P4	REPAIR & PATCH WALL OPENING. PAINT TO WALL TO MATCH ADJACENT.
09-S1	PROVIDE MIN. STC 60 WALLS FOR THIS ROOM AND ACOUSTICAL PANELS AT ALL WALL SURFACES. PROVIDE AN INDEPENDENT HEAT / COOL UNIT FOR THIS ROOM. DUCT WORK ABOVE CEILING TO BE ACOUSTICALLY LINED. SEE MECHANICAL.
09-T1	SURFACE MOUNTED CONDUITS, EXPOSED CONDUIT RACEWAYS, OR EXPOSED MECHANICAL / PLUMBING LINES WILL NOT BE ACCEPTED IN THESE ROOMS. CUT AND TRENCH WALLS AND CEILINGS TO CONCEAL CONDUITS. REPAIR & PATCH WALL, CEILING, AND DECORATIVE MOLDINGS TO MATCH ADJACENT. CONTRACTOR IS TO NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS AND/OR ISSUES OF INSTALLING THIS SCOPE OF WORK. REFER TO ELECTRICAL FOR MORE INFORMATION.
12-A1	INSTALL ARTWORK AS NOTED IN ENCLOSURE OTHERS. COORDINATE WITH DC&S.
26-C1	MULTI-SERVICE FURNITURE FEED POKE-THRU DEVICE. MODIFY EXISTING CONCRETE SLAB AS REQUIRED FOR NEW FLOOR POKE-THRU DEVICES. COORDINATE WITH ELECTRICAL.
26-C2	RECESSED FLOOR MOUNTED MULTI-SERVICE POKE-THRU DEVICE. MODIFY EXISTING CONCRETE SLAB AS REQUIRED FOR NEW FLOOR POKE-THRU DEVICES. COORDINATE WITH ELECTRICAL.
27-A4	PROVIDE HDMI-LINK BETWEEN TV / PROJECTOR AND FLOOR BOX.
32-A2	EXISTING FENCE GATE TO SWING OUTWARD ONTO FIRE ESCAPE. INSTALL EXTERIOR PANIC HARDWARE. SEE DOOR SCHEDULE.
081113.A00	HOLLOW METAL DOORS AND FRAMES
085123	STEEL WINDOWS
142500	HYDRAULIC ELEVATOR MODERNIZATION
230000.E01	FAN COIL UNIT. REFERENCE MECHANICAL DRAWINGS



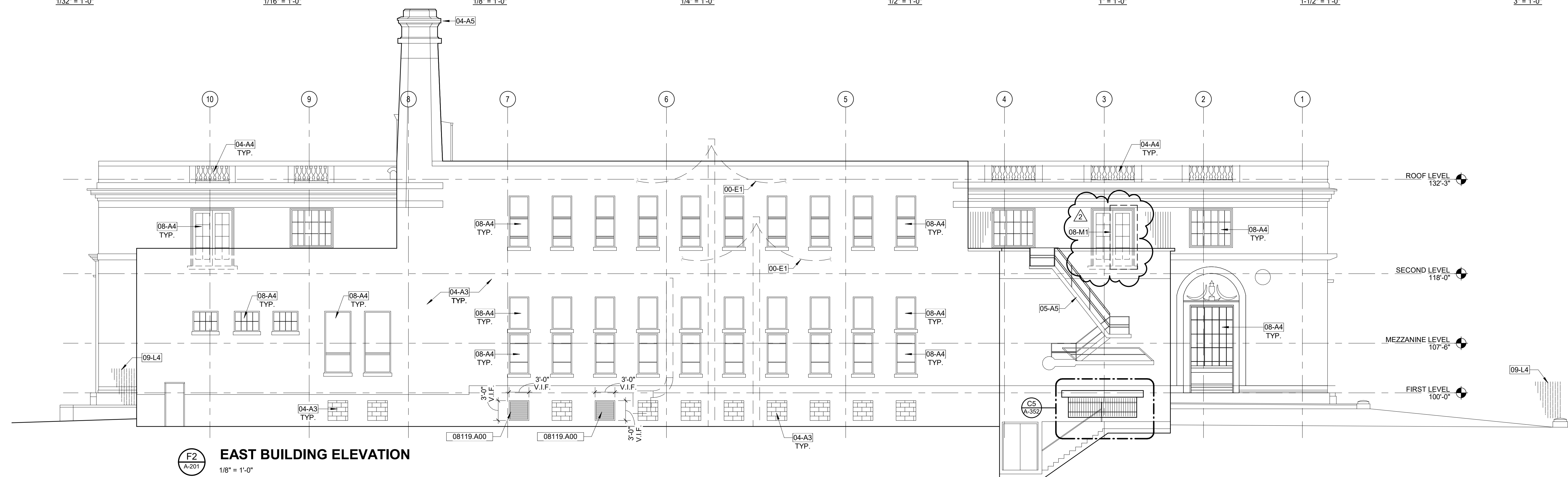
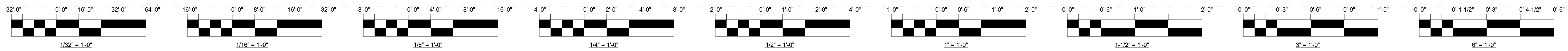
SECOND LEVEL FLOOR PLAN

1/8" = 1'-0"

GENERAL ENVIRONMENTAL NOTES

WARNING: VARIOUS COMPONENTS/SURFACES WITHIN THE BUILDING HAVE TESTED ABOVE AND BELOW THE LEAD THRESHOLD OF 1.0 MG/CM2 REGARDLESS OF CONCENTRATIONS. THERE IS A POTENTIAL FOR LEAD DUST GENERATION DURING DRILLING, CORING, PAINTING PREPARATION AND OTHER RENOVATION ACTIVITIES FOR ALL SMALL SCALE DISTURBANCES. THE CONTRACTOR SHALL FACILITATE THE APPROPRIATE MEASURES FOUND IN PROJECT SPECIFICATIONS TO PREVENT DUST MITIGATION TO OTHER PARTS OF THE BUILDING. LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (1926.62) COMPLIANCE, WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SPECIFICATIONS PROJECT SPECIFICATIONS.

WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.



F2 EAST BUILDING ELEVATION
1/8\"/>

KEYNOTE LEGEND

00-E1	OVERHEAD ELECTRICAL UTILITY LINES. COORDINATE WITH COMED.
04-A3	REFER TO MASONRY RESTORATION DRAWINGS FOR EXTERIOR FACADE WORK SCOPE.
04-A4	REFER TO MASONRY RESTORATION DRAWINGS FOR STONE BALUSTRADE WORK SCOPE.
04-A5	REFER TO MASONRY RESTORATION DRAWINGS FOR TUCKPOINTING.
04-A5	IN-KIND FIRE ESCAPE REPAIRS TO BE PERFORMED UNDER SEPARATE PERMIT. SEE A-202 FOR IN-KIND FIRE ESCAPE REPAIRS.
08-A4	REFER TO EXISTING WINDOW SCHEDULE ON A-621 FOR SCOPE OF WORK.
08-D3	REPLACE AND PAINT PERIMETER GARAGE DOOR TRIM. STRIP AND PAINT GARAGE DOORS. REPAIR AND LUBRICATE GARAGE DOOR HARDWARE.
08-L2	REMOVE DIRT AND DEBRIS FROM EXISTING EXTERIOR LOFTING CLEARANCES. CONTRACTORS MUST TAKE SWEEP. PAINT TO MATCH EXISTING. SEE SPEC 096600.
08-M1	CONTRACTOR TO PROVIDE MOCK-UP OF WOOD WINDOW RESTORATION PER SPEC 080152.61 FOR FINAL APPROVAL BY AOR AND OWNER.
09-L2	EXISTING ROOF ACCESS LADDER TO BE PAINTED. PROVIDE SEALANT AND LADDER EMBLEMENTS. SEE SPEC 096600.
09-L3	RAILINGS, WINDOW SCREENS, FLAG POLE, LAMP POLE, AND ANY EXTERIOR ORNAMENTAL IRON WORK ATTACHED TO BUILDING TO BE RE-PAINTED HIGH PERFORMANCE EXTERIOR PAINT (SPT-01) PER SPECIFICATION 096600.
09-L4	PERIMETER FENCE AND GATES TO BE RE-PAINTED HIGH PERFORMANCE EXTERIOR PAINT (SPT-01) PER SPECIFICATION 096600 AND 323119 FOR STRIP AND PREPARATION OF IRON GATES AND PERIMETER FENCES.
09-L5	REMOVE AND REPLACE JULIET BALCONY RAILING TO MATCH EXISTING. RE-PAINTED HIGH PERFORMANCE EXTERIOR PAINT (SPT-01) PER SPECIFICATION 096600.
32-A1	EXTERIOR ORNAMENTAL METAL ENCLOSURE & GATE. SEE CIVIL & LANDSCAPE. SEE DOOR SCHEDULE FOR DOOR AND PANIC HARDWARE.
08119.A00	FIXED LOUVERS

DOB STAMP APPROVAL

CHICAGO PUBLIC LIBRARY

SEAL / DATE 12/5/19

Leger Regional Library Renovation
115 S. Pulaski Road
Chicago, IL 60624
CHICAGO PUBLIC LIBRARY
CITY OF CHICAGO, MAYOR LORI LIGHTFOOT

Architect of Record:
RATIO

COPYRIGHT NOTICE: THIS ARCHITECTURAL AND ENGINEERING DRAWING IS THE PROPERTY OF RATIO AND SHALL BE USED ONLY PURSUANT TO THE AGREEMENT WITH RATIO. NO OTHER USE, REPRODUCTION, OR TRANSMISSION IN ANY FORM OR BY ANY MEANS, WITHOUT THE WRITTEN CONSENT OF RATIO. ALL COMMON LAW RIGHTS OF COPYRIGHT AND OTHERWISE ARE HEREBY SPECIFICALLY RESERVED.

ADDRESS: 30 West Monroe Street, Suite 500
Chicago, Illinois 60603
PHONE: 312-465-2359
FAX: 312-467-0123
WEB: www.ratiodesign.com

TERRA Engineering Ltd.
225 W. Ohio Street, 4th Floor, Chicago, IL 60654
(312) 467-0123
Civil Engineers of Record

Steam-Joglekar, Ltd.
223 W. Jackson Blvd # 1110, Chicago, IL 60606
(312) 461-1600
Structural Engineers of Record

Brush Architects, LLC
5200 N. Francisco Ave, Chicago, IL 60618
(312) 925-3070
Facade Consultant

RCL Engineering Group
910 BOX 4628, Skokie, IL 60076
(847) 955-3366
Roofing Consultant

db | HMS
303 E. Erie St #510, Chicago, IL 60654
(312) 915-0567
MEFP Engineers of Record

Gwen Grossman Lighting Design
63 W. Jackson Blvd, Chicago, IL 60604
(312) 877-5125
Lighting Design Consultant

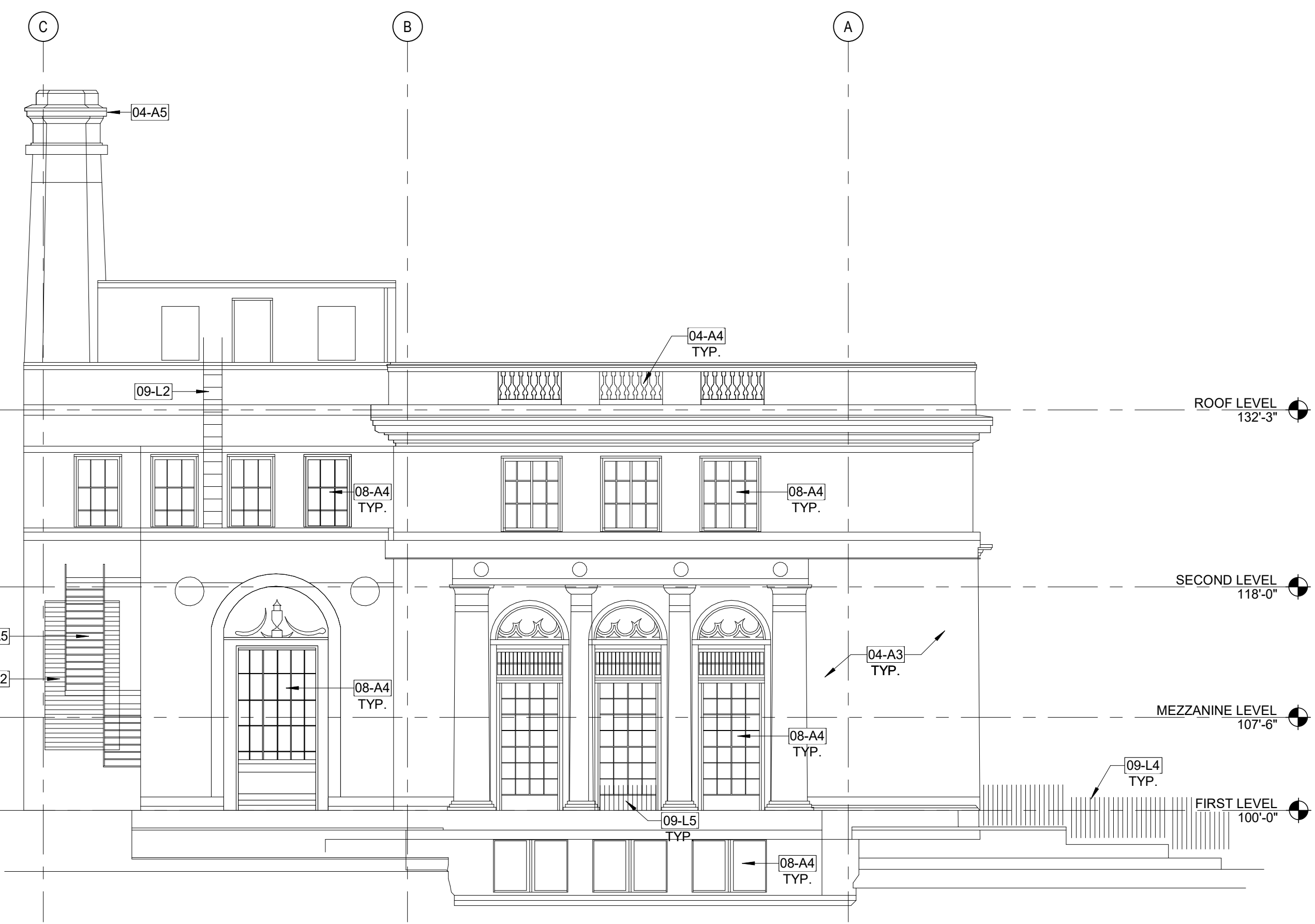
Lerch Bates Inc.
216 S. Jefferson St., Suite L12, Chicago, IL 60661
(312) 332-6444
Elevator Consultant

Carnow, Conibear & Assoc., Ltd.
600 West Van Buren, Suite 500, Chicago, IL 60607
(312) 762-4486
Environmental Consultant

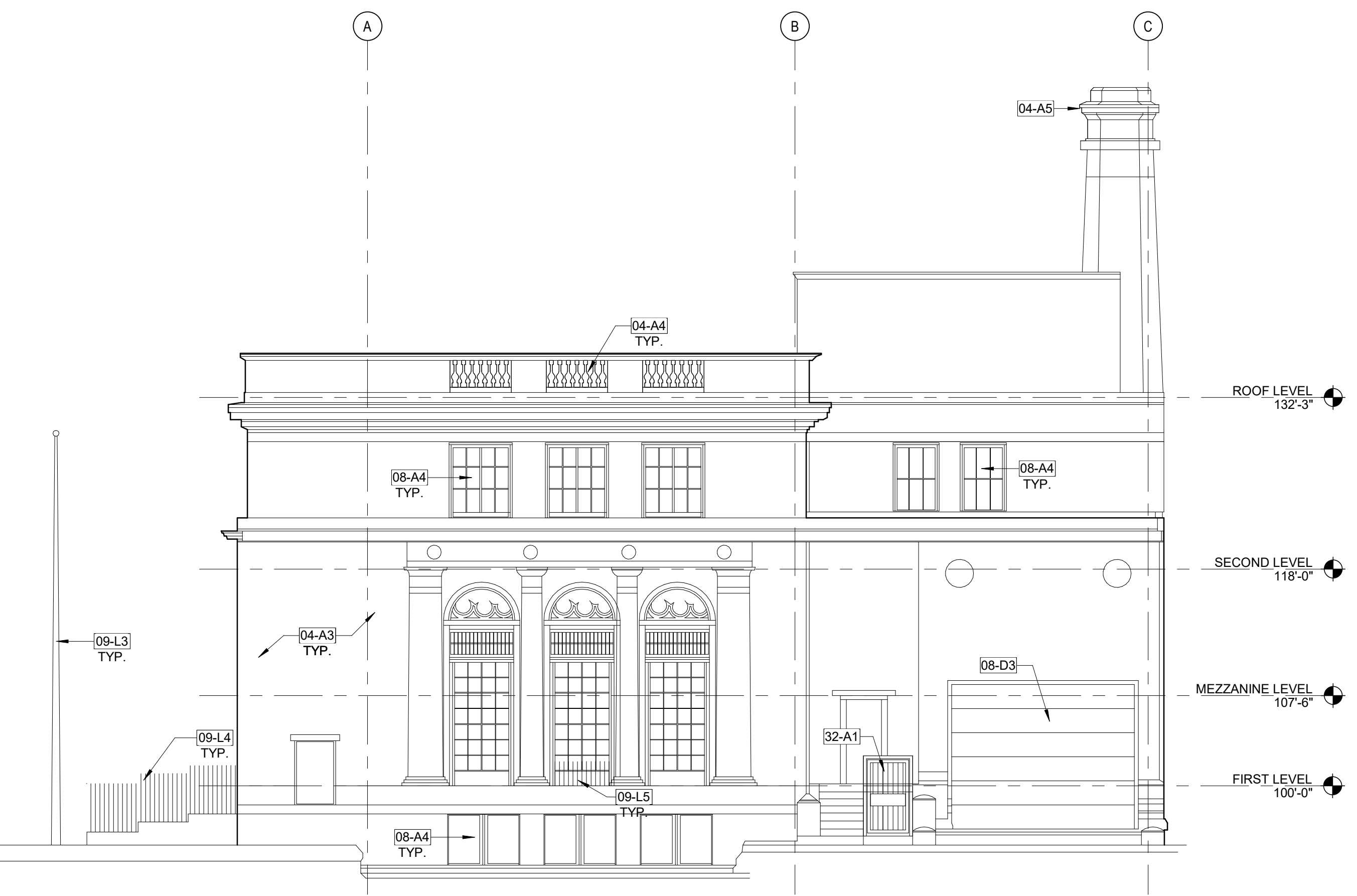
GENERAL ENVIRONMENTAL NOTES

WARNING: VARIOUS COMPONENTS/SURFACES WITHIN THE BUILDING HAVE TESTED ABOVE AND BELOW THE LEAD THRESHOLD OF 1.0 MG/CM2 REGARDLESS OF CONCENTRATIONS. THERE IS A POTENTIAL FOR LEAD DUST GENERATION DURING DRILLING, CORING, PAINTING PREPARATION AND OTHER RENOVATION ACTIVITIES FOR ALL SMALL SCALE DISTURBANCES. THE CONTRACTOR SHALL FACILITATE THE APPROPRIATE MEASURES FOUND IN PROJECT SPECIFICATIONS TO PREVENT DUST MITIGATION TO OTHER PARTS OF THE BUILDING. LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (1926.62) COMPLIANCE. WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SPECIFICATIONS PROJECT SPECIFICATIONS.

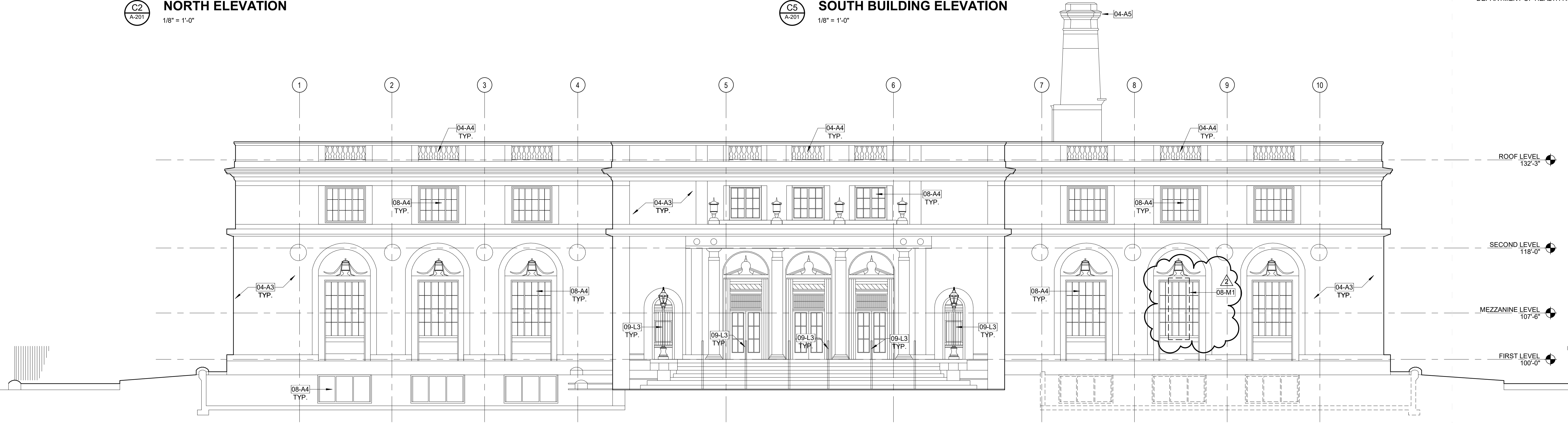
WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.



C2 NORTH ELEVATION
1/8\"/>



C5 SOUTH BUILDING ELEVATION
1/8\"/>

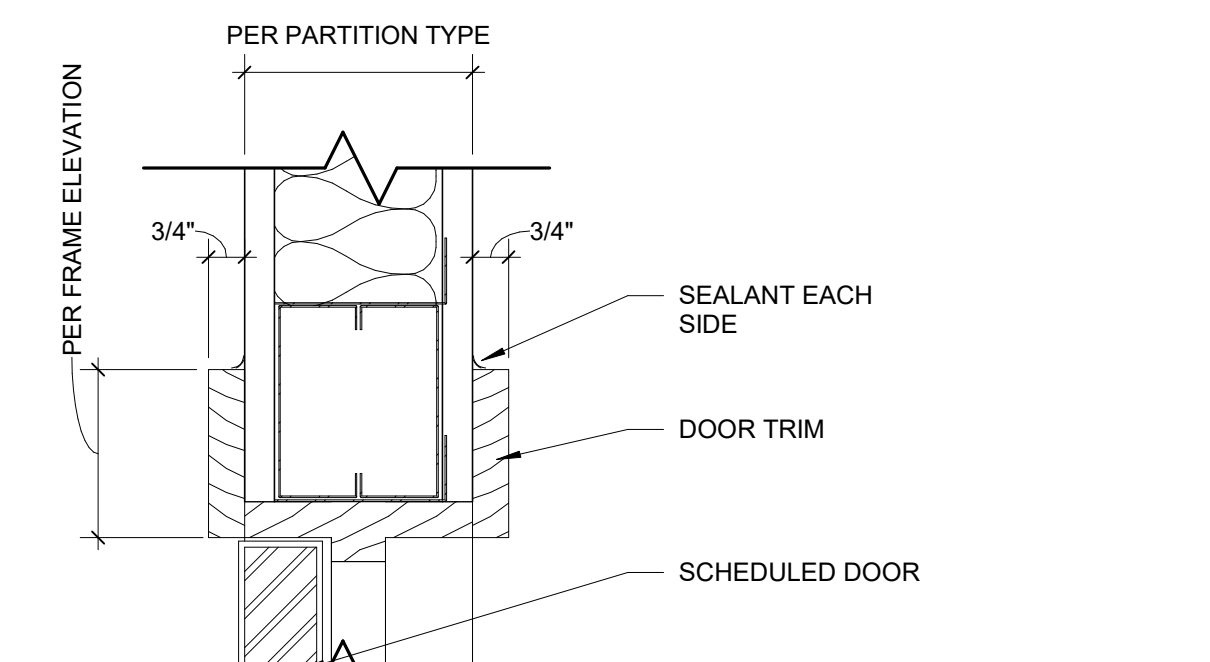
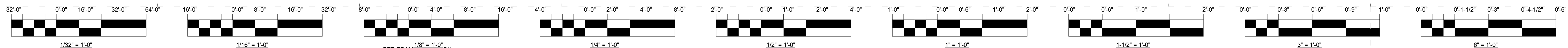


A2 WEST BUILDING ELEVATION
1/8\"/>

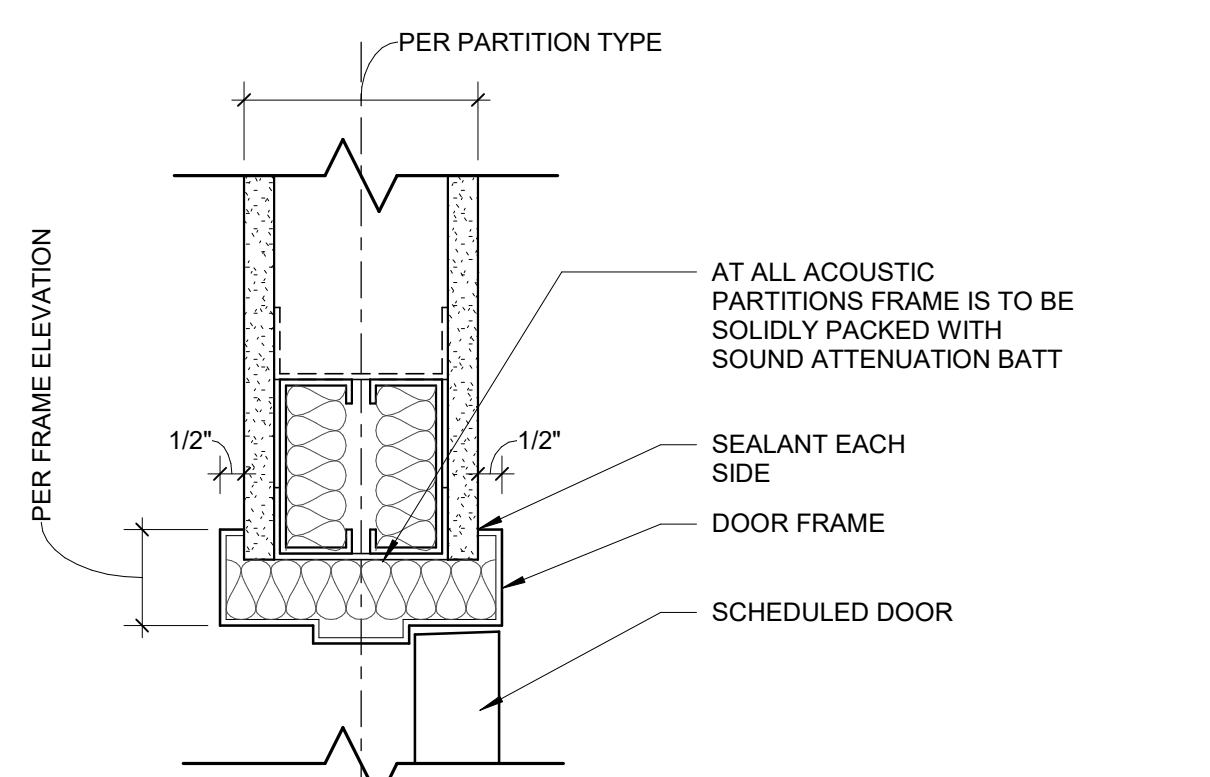
Issue/Revision

Mark	Description	Date
1	ISSUE FOR BID	11/13/19
2	ADDENDUM #3	12/5/19

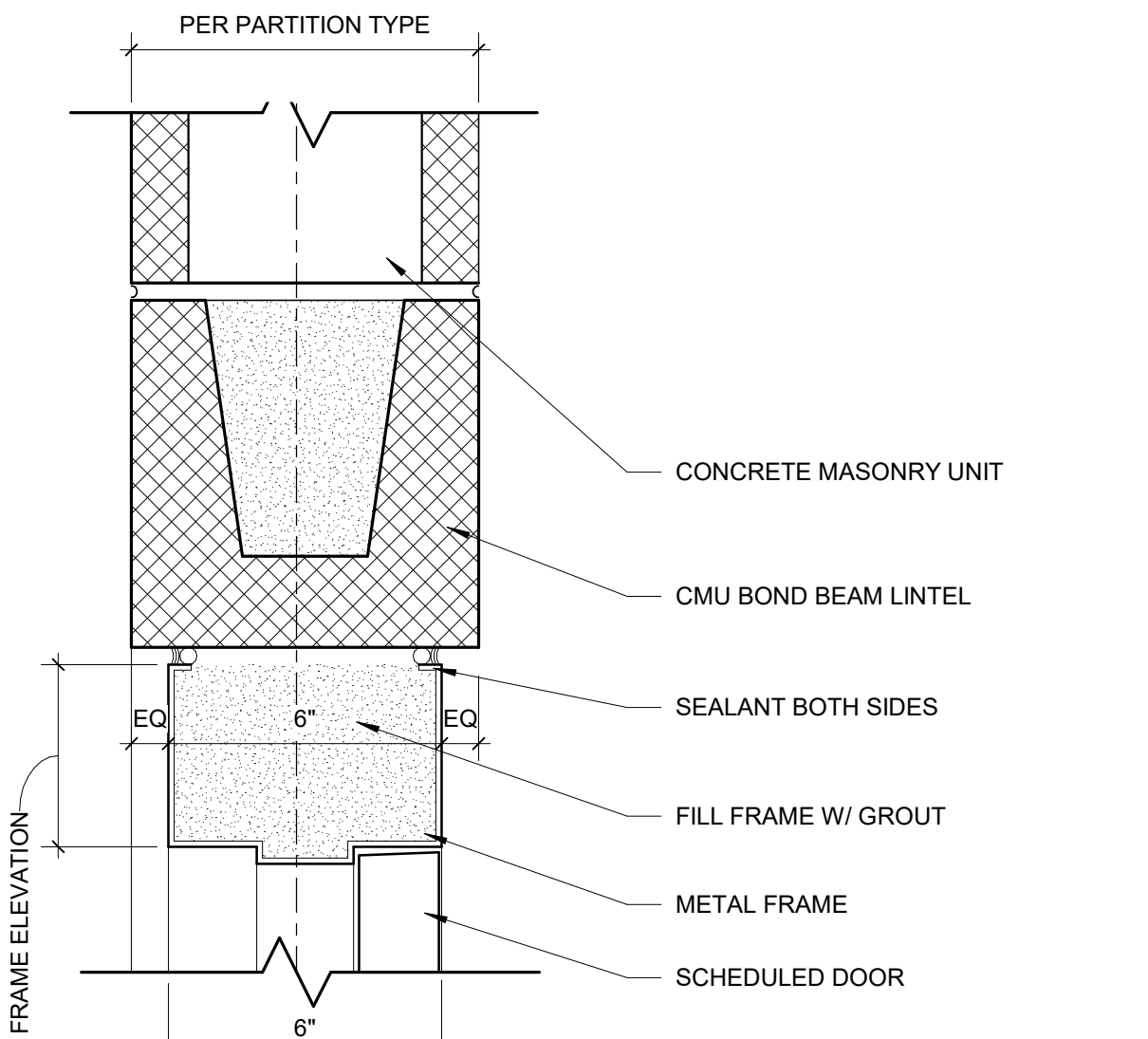
PBC Project Name: Leger Regional Library
PBC Contract No.: C1597
PBC Project No.: 08310
Title: EXTERIOR ELEVATIONS
Sheet: A-201



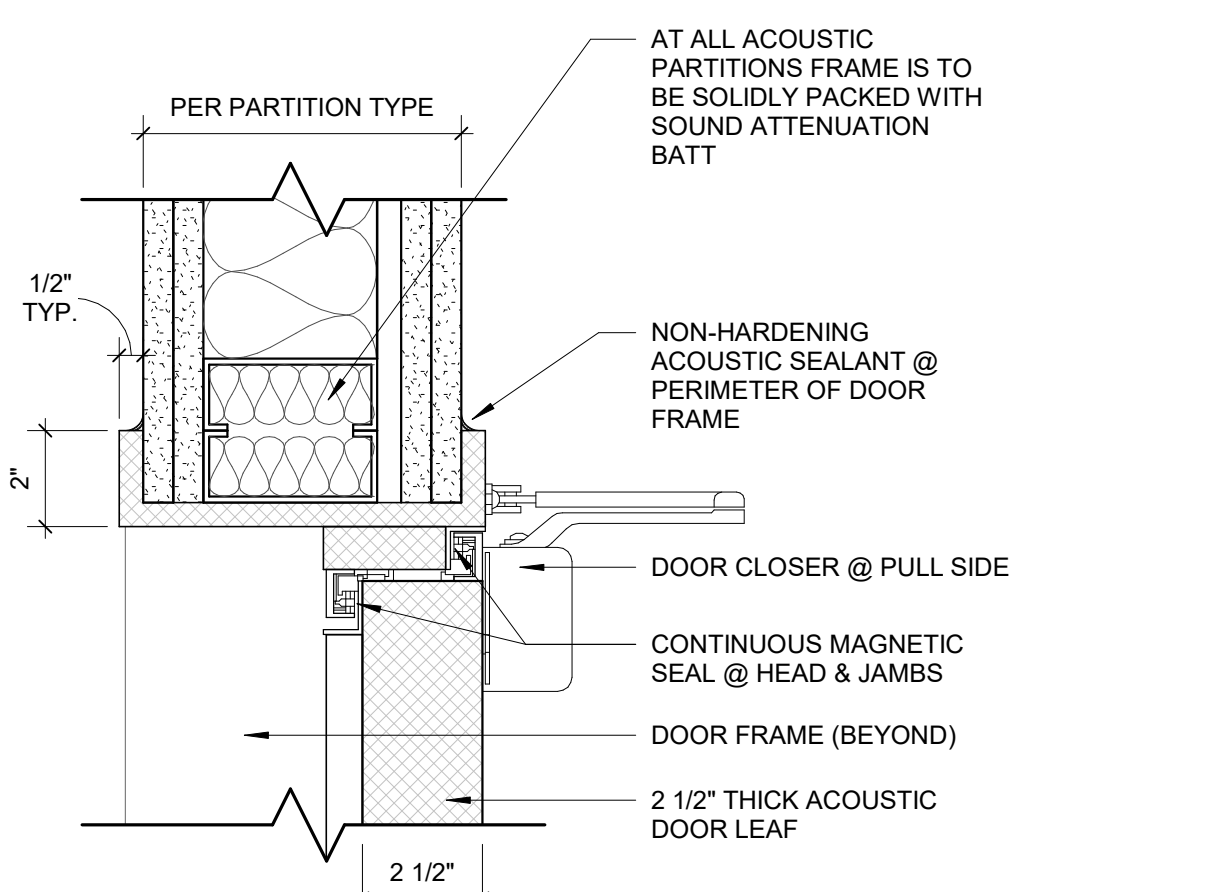
G1
A-601
3" = 1'-0"



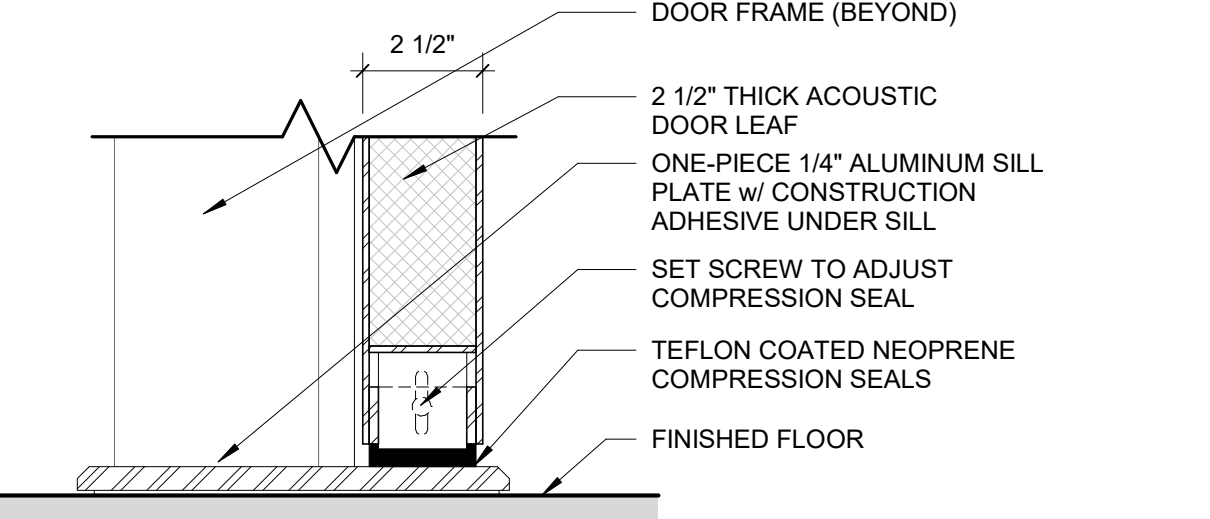
E1
A-601
3" = 1'-0"



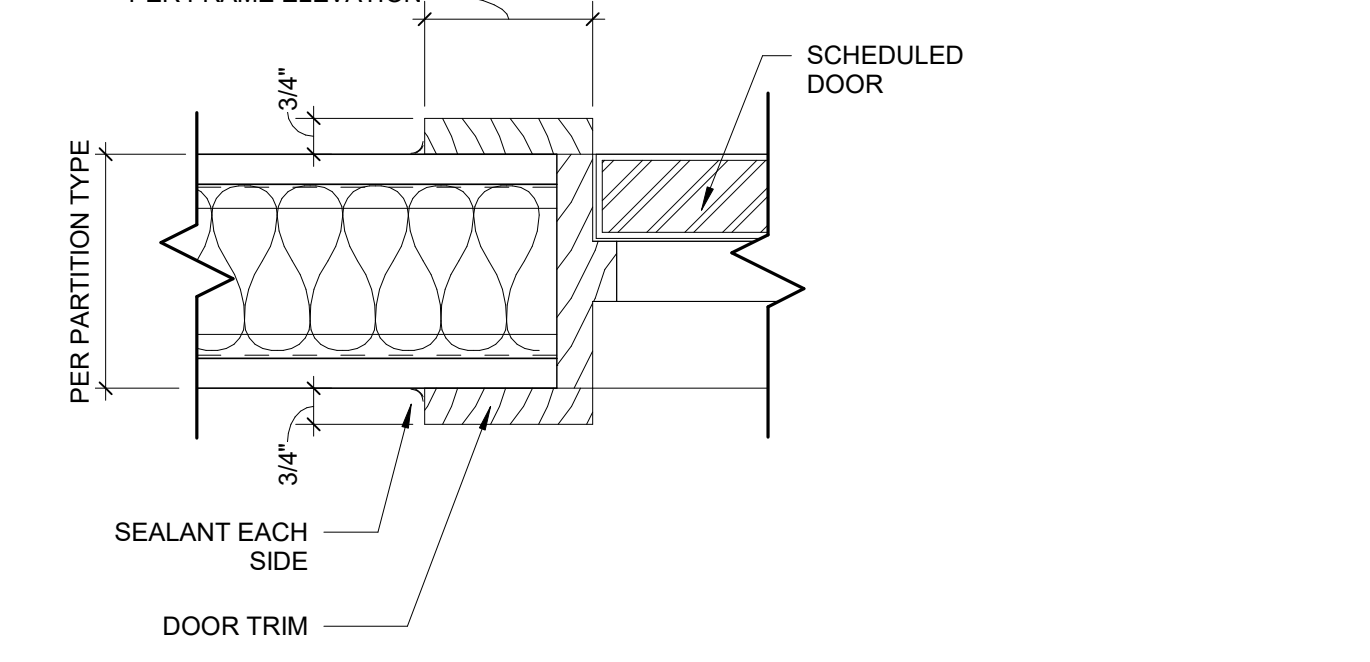
D1
A-601
3" = 1'-0"



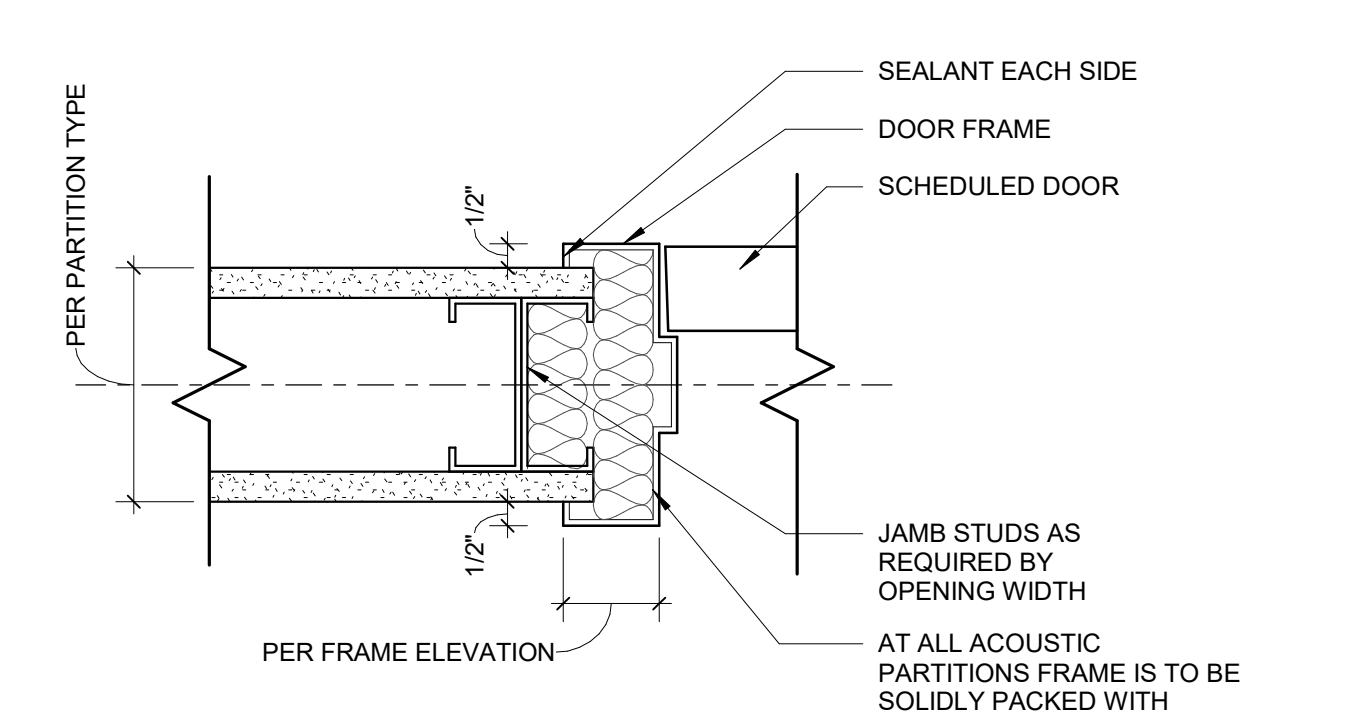
B1
A-601
3" = 1'-0"



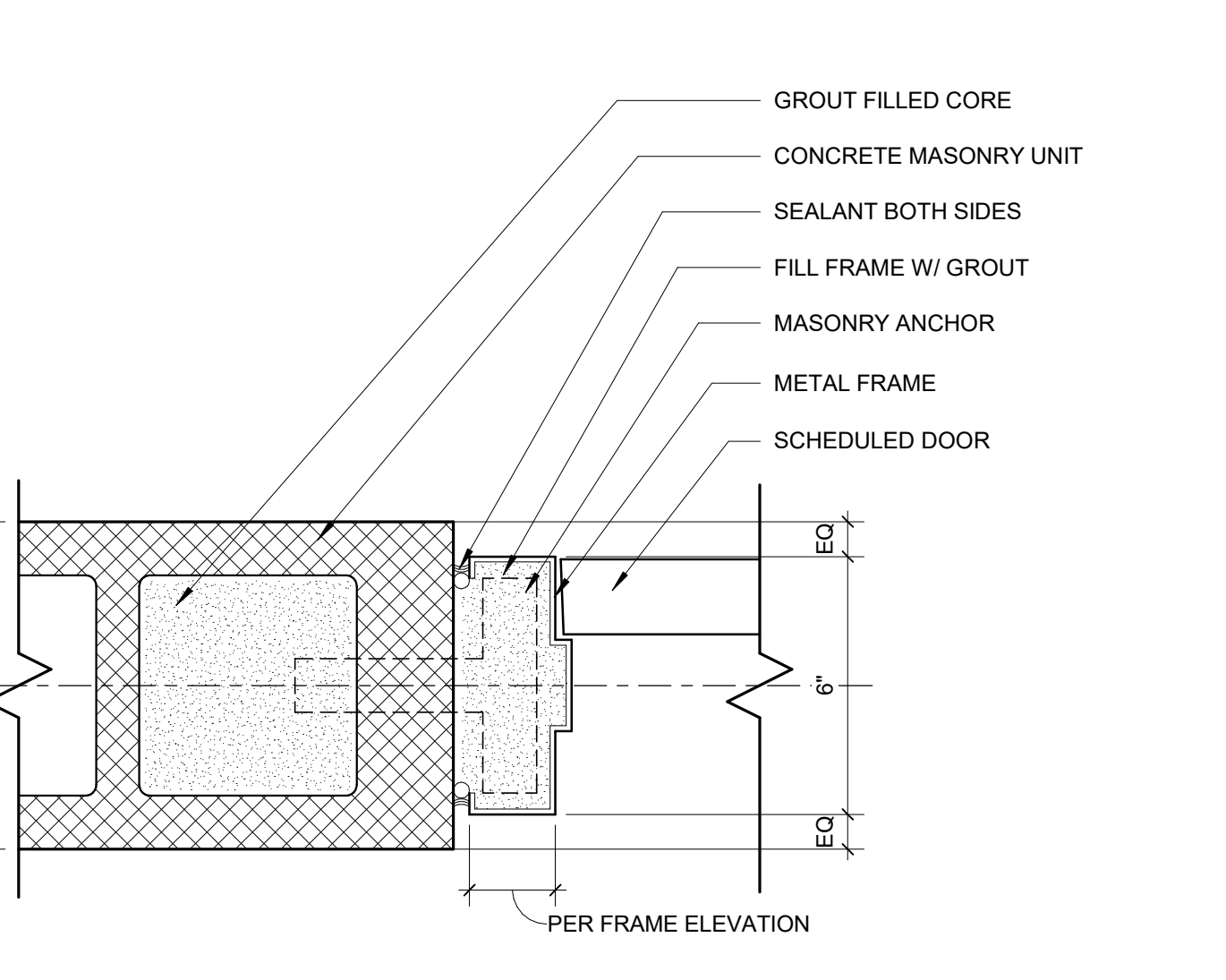
A1
A-601
3" = 1'-0"



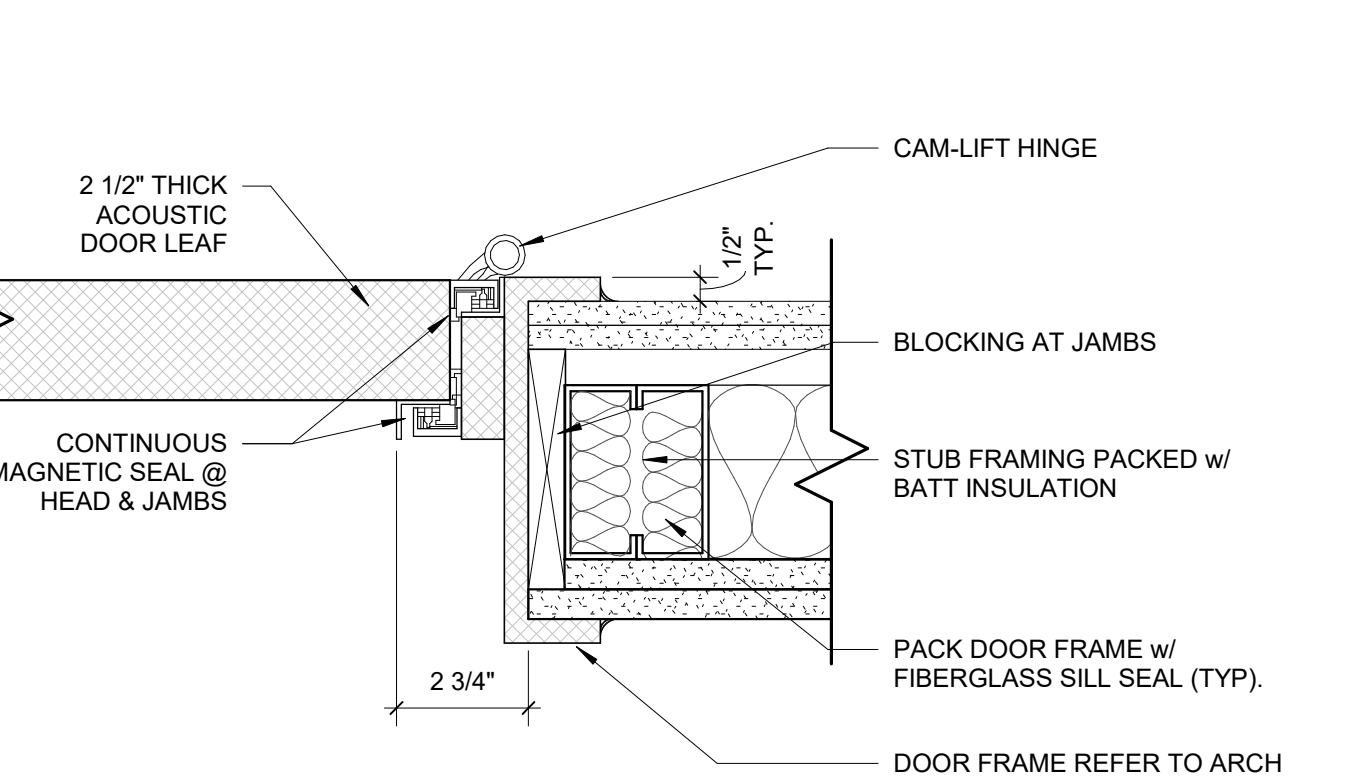
G3
A-601
3" = 1'-0"



E3
A-601
3" = 1'-0"



D3
A-601
3" = 1'-0"



B3
A-601
3" = 1'-0"

DOOR NUMBER	PAIR	DOOR			MTRL.	ELEV.	GLASS	HWRL SET	FRAME			FIRE RATING	REMARKS
		W	H	T					HEAD	JAMB	THRESHOLD		
BASEMENT LEVEL													
005-B		3'-0"	7'-0"	1 3/4"	H.M.	F	-	27.0	H.M.	F1	-	-	EXISTING DOOR, ADD ACCESS CARD
008-A		3'-0"	7'-0"	1 3/4"	H.M.	F	-	24.0	H.M.	F	-	-	EXISTING DOOR, ADD PEEPHOLE
019-A	Yes	2'-6"	7'-0"	1 3/4"	H.M.	F	-	24.0	H.M.	F	-	-	EXISTING DOOR, ADD PEEPHOLE
021-D	Yes	3'-0"	7'-0"	1 3/4"	H.M.	F	-	27.1	H.M.	F	-	-	EXISTING DOOR, ADD ACCESS CARD
FIRST LEVEL													
101-A	Yes	3'-0"	7'-0"	1 3/4"	ALUM.	FG	-	25.1	ALUM.	F1	-	-	EXISTING DOOR, ADD ADA PUSH PLATE BOTH SIDES
101-B	Yes	3'-0"	7'-0"	1 3/4"	H.M.	F	GL-EX	25.0	H.M.	F	-	-	EXISTING DOOR, ADD ADA PUSH PLATE BOTH SIDES
101-C		3'-0"	6'-11"	1 3/4"	W.D.	FG	GL-EX	28.0	W.D.	F1	-	-	EXISTING DOOR TO REMAIN, ADD WEATHER STRIPPING, SEAL DOOR CLOSED.
102-A		3'-0"	7'-0"	1 3/4"	H.M.	F	-	25.0	H.M.	F1	-	-	EXISTING DOOR, ADD ADA PUSH PLATE BOTH SIDES
107-B	Yes	2'-3 1/2"	10'-0"	1 3/4"	W.D.	FG	GL-EX	23.0	H.M.	F1	-	-	EXISTING DOOR
107-C	Yes	2'-3 1/2"	10'-0"	1 3/4"	W.D.	FG	GL-EX	23.0	H.M.	F1	-	-	EXISTING DOOR, ADD WEATHER STRIPPING
107-D	Yes	2'-3 1/2"	10'-0"	1 3/4"	W.D.	FG	GL-EX	23.0	H.M.	F1	-	-	EXISTING DOOR
115-A		3'-0"	7'-0"	1 3/4"	H.M.	F	-	26.0	H.M.	F1	-	-	EXISTING DOOR, STORAGE LOCKET SET
119-B	Yes	2'-3 1/2"	10'-0"	1 3/4"	W.D.	FG	GL-EX	23.0	H.M.	F1	-	-	EXISTING DOOR
119-C	Yes	2'-3 1/2"	10'-0"	1 3/4"	W.D.	FG	GL-EX	23.0	H.M.	F1	-	-	EXISTING DOOR, ADD WEATHER STRIPPING
119-D	Yes	2'-3 1/2"	10'-0"	1 3/4"	W.D.	FG	GL-EX	23.0	H.M.	F1	-	-	EXISTING DOOR, ADD WEATHER STRIPPING
120-A	Yes	3'-0"	7'-0"	1 3/4"	H.M.	F	-	1.0	H.M.	F1	-	-	EXISTING DOOR, ADD REMOTE ELECTRIC BUZZER, PEEPHOLE
SECOND LEVEL													
206-A	Yes	3'-0"	7'-0"	2 1/2"	H.M.	F	-	22.0	H.M.	F	-	-	EXISTING DOOR, ADD WEATHER STRIPPING AND NEW THRESHOLD
227-A	Yes	3'-0"	7'-0"	2 1/2"	H.M.	F	-	22.0	H.M.	F	-	-	EXISTING DOOR, ADD WEATHER STRIPPING AND NEW THRESHOLD
231-A		3'-0"	7'-0"	1 1/2"	C.L.F.	C.L.F.	nlb	2.0	ALUM.	C.L.F.	-	-	EXTERIOR CHAIN-LINK, REMOVE EXISTING LATCH, ADD NEW PANIC HARDWARE, ADJUST FENCE GATE TO SWING OUTWARD ONTO FIRE ESCAPE

DOOR NUMBER	PAIR	DOOR			MTRL.	ELEV.	GLASS	HWRL SET	FRAME			FIRE RATING	REMARKS		
		W	H	T					HEAD	JAMB	THRESHOLD				
BASEMENT LEVEL															
002-A		3'-0"	7'-0"	1 1/8 3/2"	H.M.	F	-	17.0	H.M.	F1	E1A-601	E3A-601	-	IN-USE INDICATOR	
003-A		3'-0"	7'-0"	1 3/4"	H.M.	F	-	20.0	H.M.	F1	E1A-601	E3A-601	90	KEYED FROM OUTSIDE, KICKPLATE	
004-A		3'-0"	7'-0"	1 3/4"	H.M.	F	-	20.0	H.M.	F1	E1A-601	E3A-601	90	KEYED FROM OUTSIDE, KICKPLATE	
006-A		3'-0"	7'-0"	1 3/4"	H.M.	F	-	8.0	H.M.	F1	E1A-601	E3A-601	90	ACCESS CARD	
019-B	Yes	3'-0"	7'-0"	1 3/4"	H.M.	NI	GL-03	12.0	H.M.	F1	E1A-601	E3A-601	90		
021-A		3'-0"	7'-0"	1 3/4"	W.D.	F	-	11.0	H.M.	F2	E1A-601	E3A-601	-		
021-B		3'-0"	7'-0"	1 3/4"	W.D.	F	-	11.0	H.M.	F2	E1A-601	E3A-601	-		
022-A		3'-0"	7'-0"	1 3/4"	H.M.	F	-	10.0	H.M.	F1	E1A-601	E3A-601	90		
024-A		3'-0"	6'-8"	1 3/4"	H.M.	F	-	8.0	H.M.	F1	E1A-601	E3A-601	90	ACCESS CARD	
025-A		3'-0"	6'-8"	1 3/4"	H.M.	F	-	10.0	H.M.	F1	E1A-601	E3A-601	90		
026-A		3'-0"	6'-8"	1 3/4"	H.M.	F	-	10.0	H.M.	F1	E1A-601	E3A-601	90		
FIRST LEVEL															
105-A		3'-0"	8'-0"	1 3/4"	ALUM.	FG	GL-02	5.0	ALUM.	ALUM.	B3A-622	B4A-622	-		
106-A		3'-0"	8'-0"	1 3/4"	ALUM.	FG	GL-02	5.0	ALUM.	ALUM.	B3A-622	B4A-622	-		
109-A		3'-0"	7'-0"	1 3/4"	H.M.	F	-	20.0	H.M.	F1	E.T.R.	E.T.R.	-	KEYED FROM OUTSIDE, KICKPLATE	
110-A		3'-0"	7'-0"	1 3/4"	H.M.	F	-	20.0	H.M.	F1	E.T.R.	E.T.R.	-	KEYED FROM OUTSIDE, KICKPLATE	
111-A		3'-0"	7'-0"	1 3/4"	W.D.	FG	GL-02	13.0	H.M.	F2	E1A-601	E3A-601	-		
114-A		3'-0"	7'-0"	1 3/4"	H.M.	F	-	16.0	H.M.	F1	E1A-601	E3A-601	-	IN-USE INDICATOR	
117-A		3'-0"	7'-0"	1 3/4"	H.M.	F	-	3.0	H.M.	F1	D1A-601	D3A-601	-	HEAVY-DUTY EGRESS DOOR WITH NEW SOLID HM DOOR WITH PANIC HARDWARE	
120-B		3'-0"	8'-0"	1 1/2"	C.L.F.	C.L.F.	-	2.0	ALUM.	C.L.F.	-	-	EXTERIOR CHAIN-LINK DOOR WITH PANIC HARDWARE		
121-A		3'-0"	7'-0"	1 3/4"	W.D.	F	-	10.1	H.M.	F1	E1A-601	E3A-601	90		
126-A		3'-0"	7'-0"	1 3/4"	H.M.	F	-	7.0	H.M.	F1	E1A-601	E3A-601	-	REMOTE ELECTRIC BUZZER, IN-USE INDICATOR	
MEZZANINE LEVEL															
113-A		3'-0"	7'-0"	1 3/4"	W.D.	F	-	10.1	H.M.	F1	E1A-601	E3A-601	90		
SECOND LEVEL															
205-A		3'-0"	7'-0"	1 3/4"	W.D.	F	-	9.0	H.M.	F1	E1A-601	E3A-601	-		
206-A	Yes	3'-0"	8'-0"	1 3/4"	ALUM.	FG	GL-02	4.0	ALUM.	ALUM.	B3A-622	B4A-622	-		
208-A		3'-0"	7'-0"	1 3/4"	W.D.	FG	GL-02	13.0	H.M.	F3	E1A-601	E3A-601	-		
208-B		3'-0"	7'-0"	1 3/4"	W.D.	FG	GL-02	11.0	H.M.	F2	E1A-601	E3A-601	-		
209-A		3'-0"	7'-0"	1 3/4"	ALUM.	FG	GL-02	5.0	ALUM.	ALUM.	B3A-622	B4A-622	-		
210-A	Yes	3'-0"	7'-0"	1 3/4"	W.D.	F	-	18.0	H.M.	F1	E1A-601	E3A-601	-		
210-B	Yes	3'-0"	7'-0"	1 3/4"	W.D.	F	-	18.0	H.M.	F1	E1A-601	E3A-601	-		
210-C	Yes	3'-0"	7'-0"	1 3/4"	W.D.	F	-	18.0	H.M.	F1	E1A-601	E3A-601	-		
211-A		3'-0"	7'-0"	2 1/2"	W.D.	N2	GL-02	15.0	H.M.	F1	B1A-601	B3A-601	A1A-601	-	SOUND STUDIO - ACOUSTICAL DOOR
213-A		3'-0"	7'-0"	1 3/4"	W.D.	N2	GL-02	8.0	H.M.	F1	E1A-601	E3A-601	-		
214-A		3'-0"	7'-0"	1 3/4"	W.D.	N2	GL-02	8.0	H.M.	F2	E1A-601	E3A-601	-		
216-A		3'-0"	7'-0"	1 3/4"	W.D.	F	-	16.0	H.M.	F1	E1A-601	E3A-601	-	IN-USE INDICATOR	
217-A		3'-0"	7'-0"	1 3/4"	W.D.	FG	GL-02	8.0	H.M.	F2	E1A-601	E3A-601	-		
ROOF LEVEL															
R-01		2'-6"	5'-4 1/2"	1 3/4"	H.M.	F	-	29.0	H.M.	F1	D1A-601	D3A-601	-	VERIFY DOOR IN EXISTING MASONRY OPENING AFTER SETTING NEW THRESHOLD.	
R-02		2'-8"	4'-2"	1 3/4"	H.M.	F	-	29.0	H.M.	F1	D1A-601	D3A-601	-	VERIFY DOOR IN EXISTING MASONRY OPENING AFTER SETTING NEW THRESHOLD.	

TYPE	THICKNESS	GLASS DESCRIPTION	COMMENTS
GL-01	1/4"	INTERIOR - CLEAR, ANNEALED FLOAT GLASS	
GL-02	1/4"	INTERIOR - CLEAR, TEMPERED FLOAT GLASS	
GL-03		INTERIOR - CLEAR, CERAMIC, FIRE-RATED GLASS	90 MIN RATING
GL-04		EXTERIOR - LOW E, INSULATING GLASS	MATCH EXISTING
GL-05	3/8"	CLEAR LAMINATED SAFETY GLASS	SOUND STUDIO
GL-06	1/4"	CLEAR LAMINATED SAFETY GLASS	SOUND STUDIO
GL-EX		EXISTING GLAZING	

DOOR #	DOOR TYPE	LINTEL REPAIR	MTL / WD	FRAME REPAIR NEEDED	FIXED / OPERABLE	HARDWARE	WEATHER STRIPPING	SILL REPAIR NEEDED	CONDITION (G/F/P/M)	TREATMENT (1-5)	REMARKS	
107-B	C	SCRAP AND REPAIR	WD	EXT. CLEAN; INT. SAND AND STAIN	F/F	-	-	EXISTING TO REMAIN	G	2	--	
107-C	D	SCRAP AND REPAIR	WD	EXT. CLEAN; INT. SAND AND STAIN	O/O	EXISTING HARDWARE TO REMAIN	YES. WEATHER STRIPPING NEEDED	EXISTING TO REMAIN	G	2	REPAIR/REPLACE JULIET BALCONY RAILING	
107-D	C	SCRAP AND REPAIR	WD	EXT. CLEAN; INT. SAND AND STAIN	F/F	-	-	EXISTING TO REMAIN	G	2	--	
119-B	C	SCRAP AND REPAIR	WD	EXT. CLEAN; INT. SAND AND STAIN	F/F	-	-	EXISTING TO REMAIN	G	2	--	
119-C	D	SCRAP AND REPAIR	WD	EXT. CLEAN; INT. SAND AND STAIN	O/O	EXISTING HARDWARE TO REMAIN	YES. WEATHER STRIPPING NEEDED	EXISTING TO REMAIN	G	2	REPAIR/REPLACE JULIET BALCONY RAILING	
119-D	C	SCRAP AND REPAIR	WD	EXT. CLEAN; INT. SAND AND STAIN	F/F	-	-	EXISTING TO REMAIN	G	2	--	
206-A	--	SCRAP AND REPAIR	WD	EXT. CLEAN; INT. SAND AND STAIN	O-O	O-DBL-DOOR; PATCH DOOR; SAND	REPLACE MISSING HWDR	YES. WEATHER STRIPPING NEEDED	EXT. CLEAN; INT. SAND AND STAIN	P	4	SEE #E & #M; HWDR MISSING
227-A	--	SCRAP AND REPAIR	WD	EXT. CLEAN; INT. SAND AND STAIN	O-O	O-DBL-DOOR; PATCH DOOR; SAND	REPLACE MISSING HWDR	YES. WEATHER STRIPPING NEEDED	EXT. CLEAN; INT. SAND AND STAIN	P	4	SEE #E & #M; HWDR MISSING; SAND & STAIN STAIRS

EXISTING WINDOW AND DOOR REPAIR GENERAL NOTES

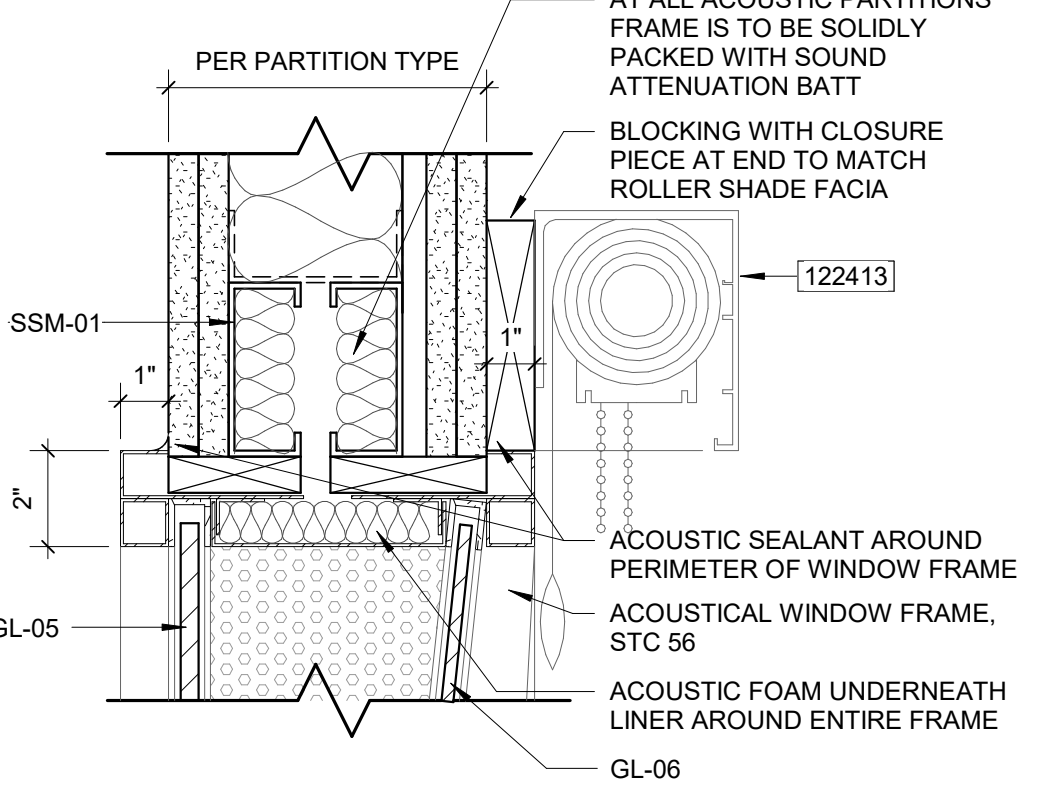
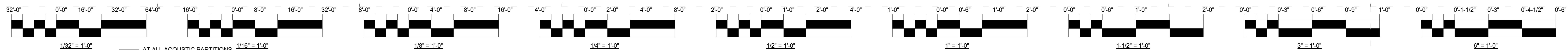
- THESE EXISTING WINDOW AND DOOR REPAIRS APPLY TO EXISTING WINDOW SCHEDULE (A-601) AND EXISTING WINDOW SCHEDULE (A-621).
- REFER TO SPECIFICATIONS 0801261 - WOOD WINDOW REPAIRS FOR REFURBISHING AND REPAIRING WOOD WINDOWS AND TRIM.
- EXISTING WOOD CASEMENT WINDOW SASHES THAT ARE REMOVED FOR RESTORATION WORK UNDER SHOP CONDITION, CONTRACTOR TO PROVIDE PROTECTION TO THE EXISTING BUILDING FROM THE ELEMENTS AND VANDALISM UNTIL THE SASHES & DOORS ARE REINSTALLED.
- STRIP BOTH SURFACES OF THE WINDOWS, DOORS AND FRAMES DOWN TO BARE WOOD, RESTORE THESE ITEMS AND PREPARE FOR NEW FINISH. ALL EXTERIOR FINISH OF THE WINDOWS, DOORS & FRAMES SHALL BE PAINTED. INTERIOR FINISH OF THESE ITEMS SHALL MATCH THE EXISTING TRIM.
- REPLACE THE ENTIRE WOOD WINDOW OR DOOR IF DECAYED WOODEN ELEMENT DAMAGE COVERS MORE THAN 50% OF THE PIECE. USE EPOXY FILLER WHEN IF 75% PERCENT OF THE ELEMENT IS STILL SOUND MATERIAL.
- REFINISH EXPOSED WOOD SURFACES TO MATCH EXISTING (SEE SPECS).
- EXISTING WOOD WINDOWS (CASEMENT AND DOUBLE HUNG) AND DOORS EXTERIOR MOLDING, FRAMING AND SILLS SHALL BE REPAIRED WITH WATER RESISTANT RESIN CONSOLIDANT AND STRUCTURAL NO-SHRINK EPOXY ADHESIVE PUTTY. IF TOTALLY DETERIORATED, NOTIFY ARCH. PRIOR TO REPLACEMENT (MATCH EXISTING PROFILE).
- WOOD BLOCKING AND SHIM SHALL BE TREATED WOOD.
- PERMANENTLY SECURE ALL FIXED SASHES AS INDICATED IN EXISTING WINDOW SCHEDULE.
- PROVIDE SEALANT AROUND THE PERIMETER OF THE OPENING. REMOVE EXISTING AND PROVIDE NEW WEATHERSTRIPPING ON ALL OPERABLE SASHES.
- CHECK EXISTING HARDWARE FOR PROPER OPERATION. CLEAN AND LUBRICATE ALL EXISTING HARDWARE. REPLACE ALL DAMAGED BROKEN OR MISSING HARDWARE WITH HARDWARE FROM OPERABLE SASHES WITH SIMILAR HARDWARE WHICH ARE SCHEDULED TO BECOME FIXED.
- MASONRY JOINT ADJACENT TO WINDOW FRAME SHALL BE IN-LINE WITH EXISTING WOOD TRIM ON ALL SIDES.
- REPLACE EXISTING HARDWARE FOR RE-USE IF EXISTING WOOD DOOR OR WINDOW IS REPAIRED.
- REFER TO DETAIL E3A622 FOR REPLACEMENT OF SEALANT & GLAZING PUTTY ALONG ENTIRE PERIMETER (TOP, BOTTOM, AND BOTH SIDES) OF EACH INSULATED GLASS UNIT (IGU) WITH A HARDWOOD STOP.
- REPLACE EXISTING HARDWARE FOR RE-USE IF EXISTING WOOD DOOR OR WINDOW IS REPAIRED.
- REFER TO DETAIL E3A622 FOR REPLACEMENT OF SEALANT & GLAZING PUTTY ALONG ENTIRE PERIMETER (TOP, BOTTOM, AND BOTH SIDES) OF EACH INSULATED GLASS UNIT (IGU) WITH A HARDWOOD STOP.
- REPLACE EXISTING HARDWARE FOR RE-USE IF EXISTING WOOD DOOR OR WINDOW IS REPAIRED.
- REFER TO DETAIL E3A622 FOR REPLACEMENT OF SEALANT & GLAZING PUTTY ALONG ENTIRE PERIMETER (TOP, BOTTOM, AND BOTH SIDES) OF EACH INSULATED GLASS UNIT (IGU) WITH A HARDWOOD STOP.

CONDITION CLASSIFICATIONS

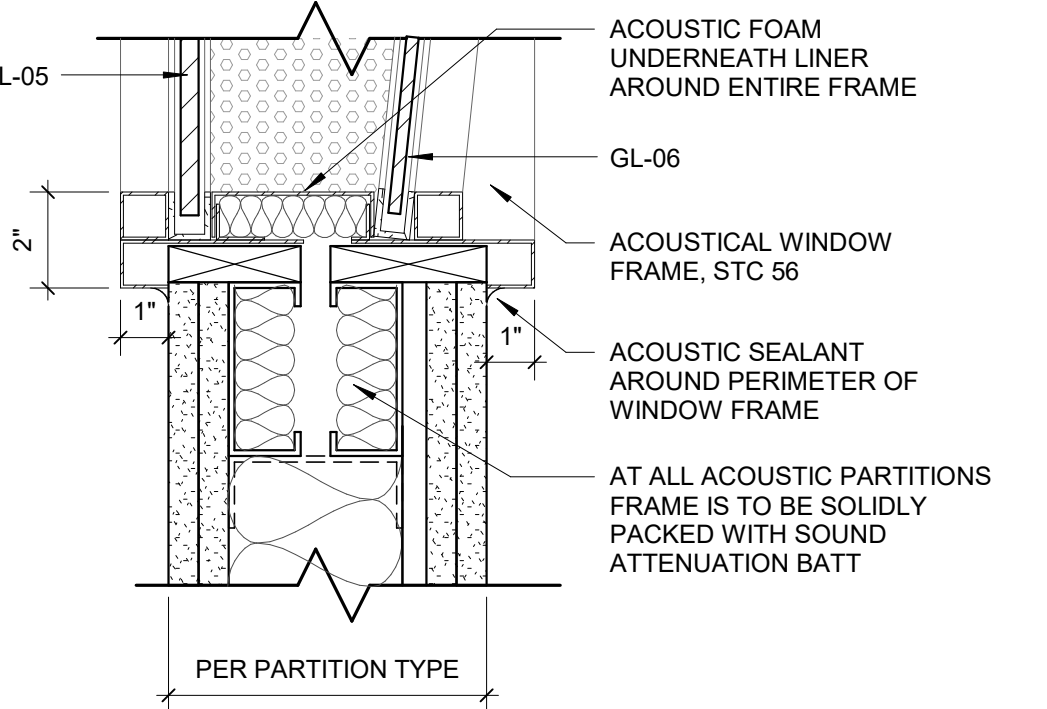
G - GOOD CONDITION
 F - FAIR CONDITION
 P - POOR CONDITION
 M - MISSING

TREATMENT CLASSIFICATIONS

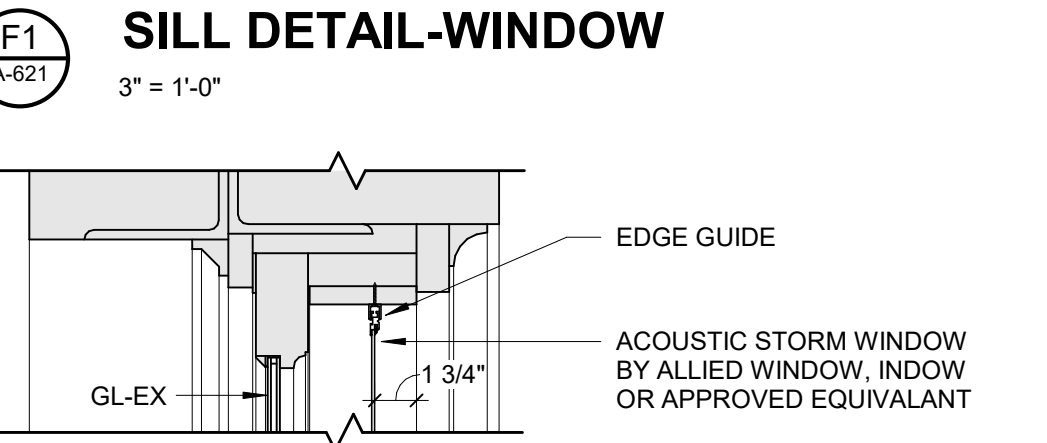
- CLEAN, SCRAPE & PAINT
- CLEAN, SCRAPE, PATCH, SAND & REPAINT (REPAIR CLASS I)
- MINOR REPAIRS (RE-GLAZE & RE-PUTTY) (REPAIR CLASS II)



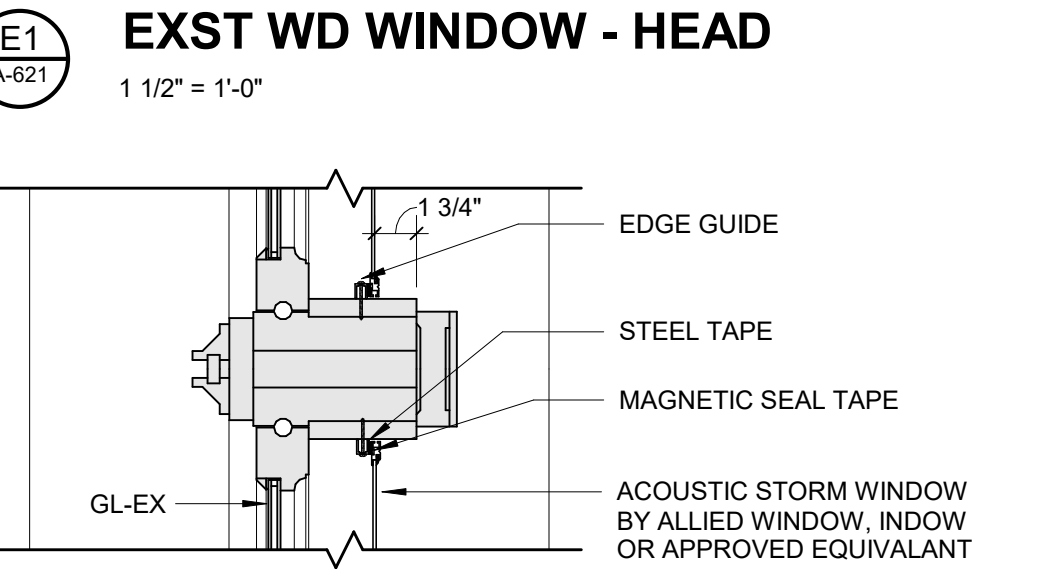
G1 HEAD DETAIL-WINDOW
3" = 1'-0"



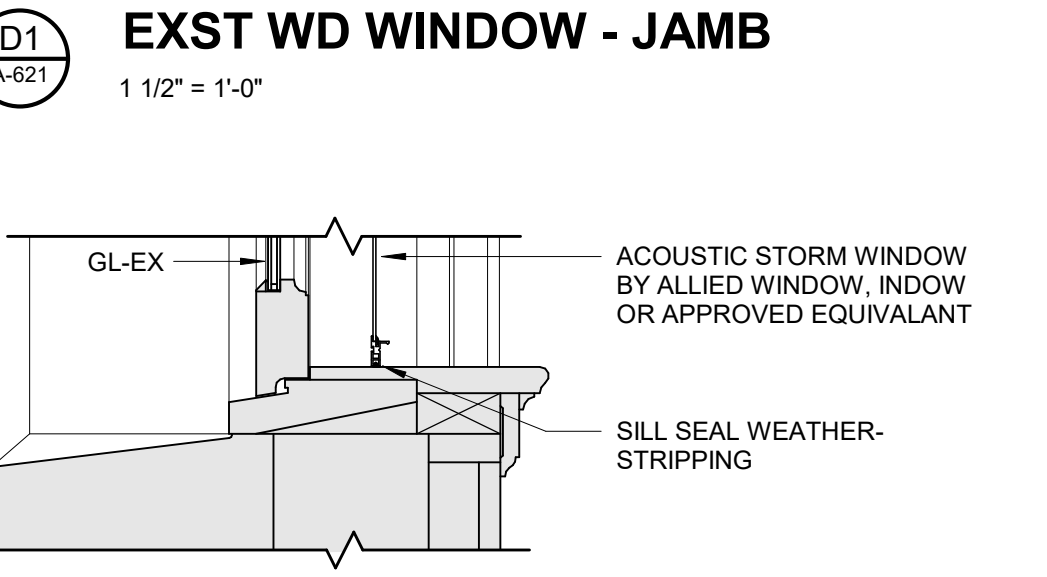
G2 JAMB DETAIL-WINDOW
3" = 1'-0"



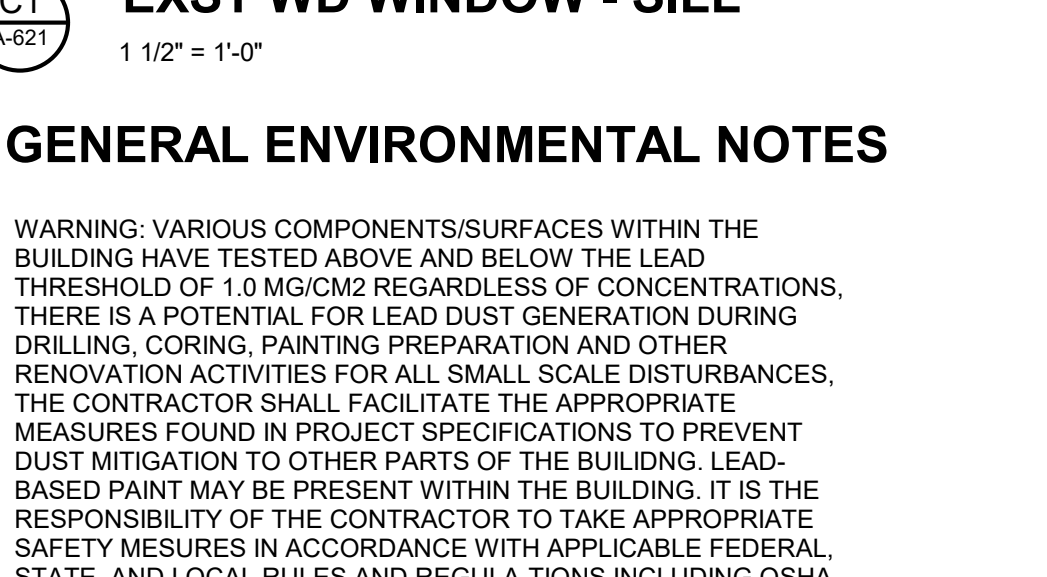
F1 SILL DETAIL-WINDOW
3" = 1'-0"



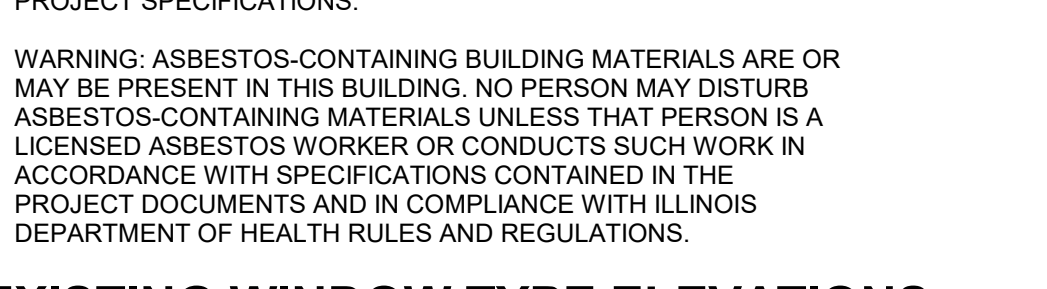
E1 EXST WD WINDOW - HEAD
1 1/2" = 1'-0"



D1 EXST WD WINDOW - JAMB
1 1/2" = 1'-0"



C1 EXST WD WINDOW - SILL
1 1/2" = 1'-0"

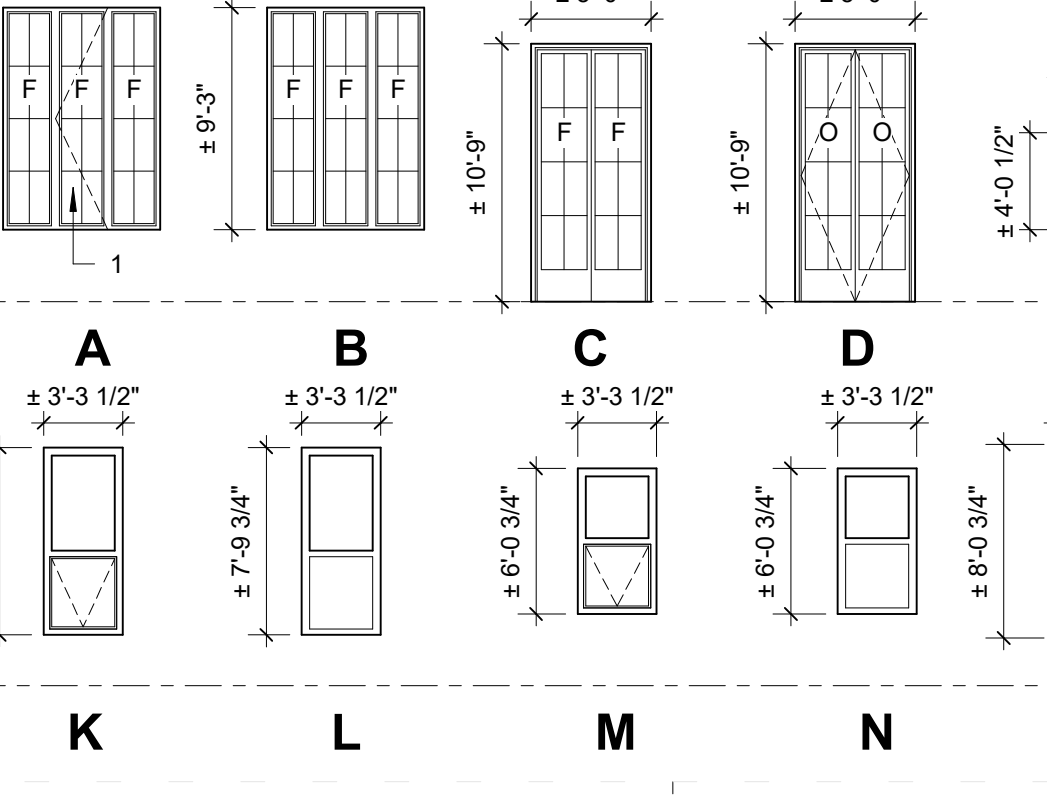


D2 JAMB DETAIL-WINDOW
3" = 1'-0"

C2 LOUVER HEAD DETAIL
1 1/2" = 1'-0"

B2 LOUVER SILL DETAIL
1 1/2" = 1'-0"

GENERAL ENVIRONMENTAL NOTES

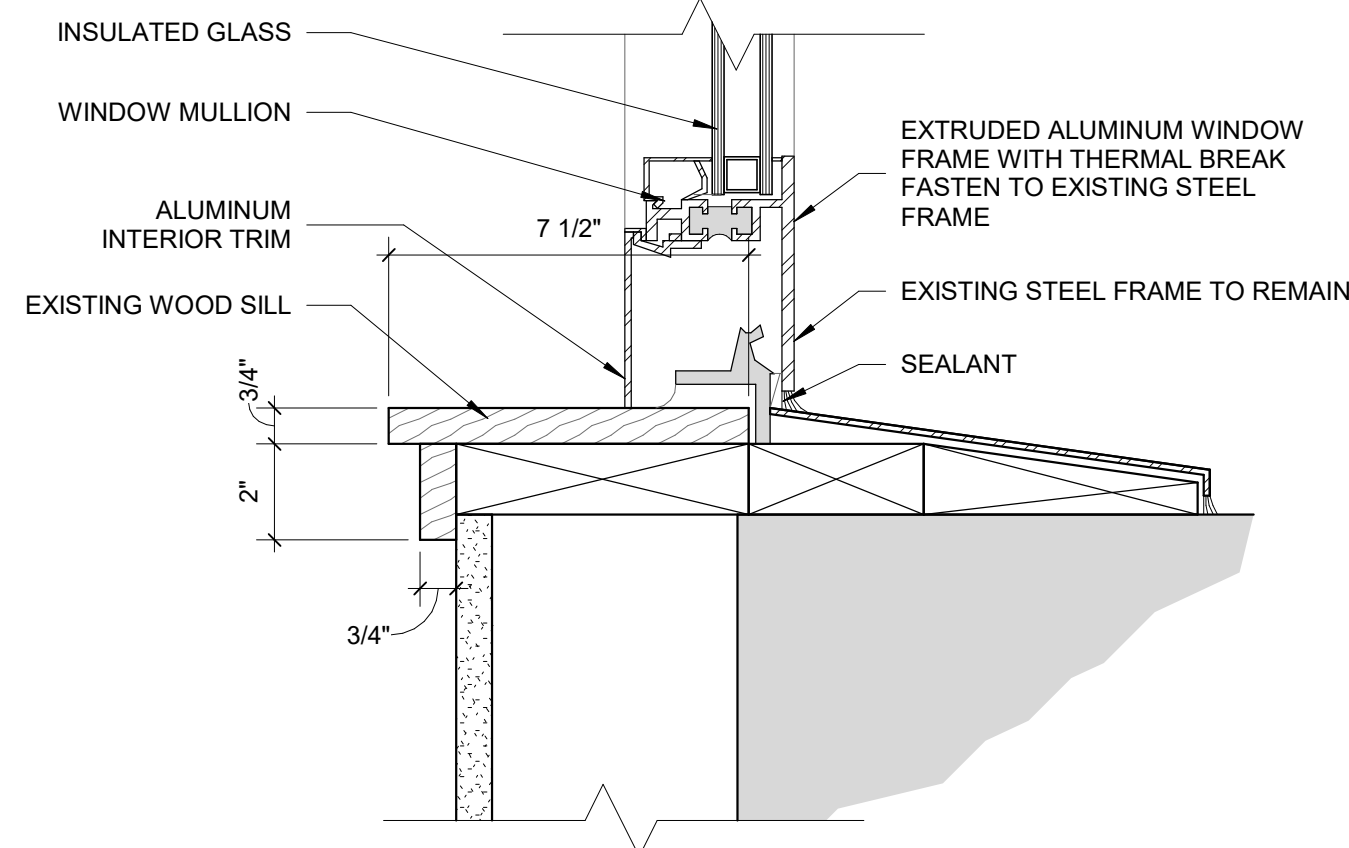
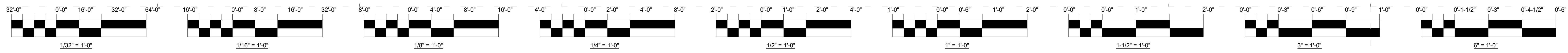


WINDOW #	WINDOW TYPE	LINTEL REPAIR	GLASS / IGU REPAIR	MTL / WD	FRAME REPAIR NEEDED	MTL SECURITY GUARDS	FIXED / OPERABLE	HARDWARE	WEATHER STRIPPING	SILL REPAIR NEEDED	WD PANEL UNDER WINDOW	CONDITION (G/F/P/M)	TREATMENT (1-5)	COMMENTS
BASEMENT LEVEL														
W01	R	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	-	F/F/F	-	-	-	-	G	1	
W02	S	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	-	F/O	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	GOOD EXISTING CONDITION	-	-	G	1	
W03	T	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	-	F/F	-	-	-	-	G	1	
W04	T	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	-	F/F	-	-	-	-	G	1	
W05	R	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	-	F/F/F	-	-	-	-	G	1	
W06	R	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	-	F/F/F	-	-	-	-	G	1	
W07	Q	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	-	O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	GOOD EXISTING CONDITION	-	-	G	1	
W08	Q	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	-	F/F/O	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	GOOD EXISTING CONDITION	-	-	G	1	
W09	R	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	-	F/F/F	-	-	-	-	G	1	SAND, PAINT AND PATCH HOLES
W10	R	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	-	F/F/F	-	-	-	-	G	1	SAND, PAINT AND PATCH HOLES
W11	T	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	-	F/F	-	-	-	-	G	1	SAND, PAINT AND PATCH HOLES
W12	T	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	-	F/F	-	-	-	-	G	1	SAND, PAINT AND PATCH HOLES
W13	S	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	-	O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	GOOD EXISTING CONDITION	-	-	G	1	SAND, PAINT AND PATCH HOLES

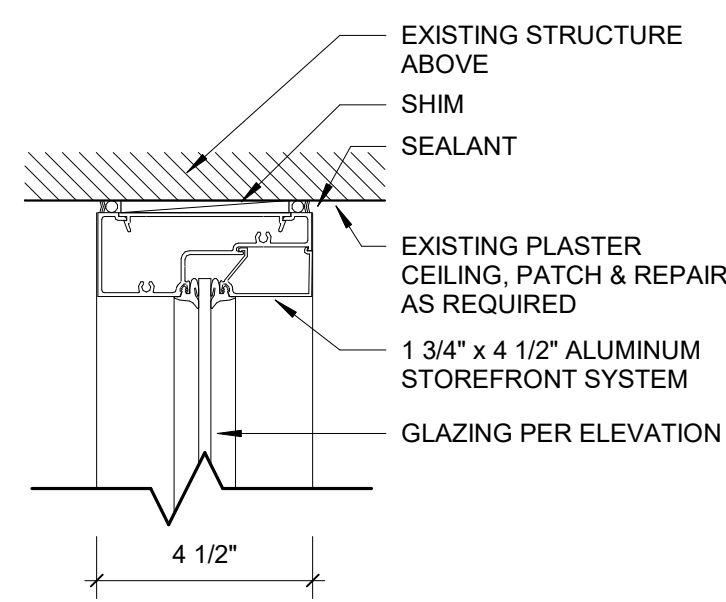
FIRST LEVEL														
W14	B	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/F/F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	REMOVE METAL BRACKETS ON EXTERIOR STONE; PATCH STONE
W15	B	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	GOOD EXISTING CONDITION	EXT. CLEAN; INT. SAND AND STAIN	YES, SAND AND STAIN	G	2	
W16	A	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	GOOD EXISTING CONDITION	EXT. CLEAN; INT. SAND AND STAIN	YES, SAND AND STAIN	G	2	REPAIR STONE TRIM
W17	B	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/F/F	-	-	EXT. CLEAN; INT. SAND AND STAIN	YES, SAND AND STAIN	G	2	
W18	A	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	GOOD EXISTING CONDITION	EXT. CLEAN; INT. SAND AND STAIN	YES, SAND AND STAIN	G	2	
W19	E	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	
W20	E	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	
W21	A	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	GOOD EXISTING CONDITION	EXT. CLEAN; INT. SAND AND STAIN	YES, SAND AND STAIN	G	2	
W22	B	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/F/F	-	-	EXT. CLEAN; INT. SAND AND STAIN	YES, SAND AND STAIN	G	2	
W23	A	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	GOOD EXISTING CONDITION	EXT. CLEAN; INT. SAND AND STAIN	YES, SAND AND STAIN	G	2	
W24	SG	SEE MR-100	YES	MTL	REFER TO COND AND TREATMENT	-	F	-	-	-	-	P	5	
W25	SG	SEE MR-100	YES	MTL	REFER TO COND AND TREATMENT	-	F	-	-	-	-	P	5	
W26	SG	SEE MR-100	YES	MTL	REFER TO COND AND TREATMENT	-	F	-	-	-	-	P	5	
W27	O	SEE MR-100	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	
W28	O	SEE MR-100	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	O	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	GOOD EXISTING CONDITION	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	
W29	N	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	O	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	GOOD EXISTING CONDITION	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL. REMOVE TAPE
W30	N	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL
W31	M	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL
W32	N	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	O	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	GOOD EXISTING CONDITION	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL
W33	N	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL. CLEAR DEBRIS AND BROKEN GLASS FROM PREVIOUS WINDOWS
W34	M	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL
W35	N	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	O	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	GOOD EXISTING CONDITION	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL
W36	N	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL
W37	N	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL
W38	M	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	O	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	GOOD EXISTING CONDITION	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL

MEZZANINE LEVEL														
W29M	J1	SEE MR-100	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL
W30M	J1	SEE MR-100	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL
W31M	J	SEE MR-100	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL
W32M	J	SEE MR-100	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL
W33M	J	SEE MR-100	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	REPAIR HOLE IN METAL SCREEN. CLEAR DEBRIS AND BROKEN GLASS FROM PREVIOUS WINDOW
W34M	J	SEE MR-100	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL
W35M	J	SEE MR-100	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL
W36M	J	SEE MR-100	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL
W37M	J1	SEE MR-100	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL
W38M	J1	SEE MR-100	-	MTL	CLEAN, SAND AND PAINT	SCRAPE & PAINT	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	SAND AND PAINT GRILL

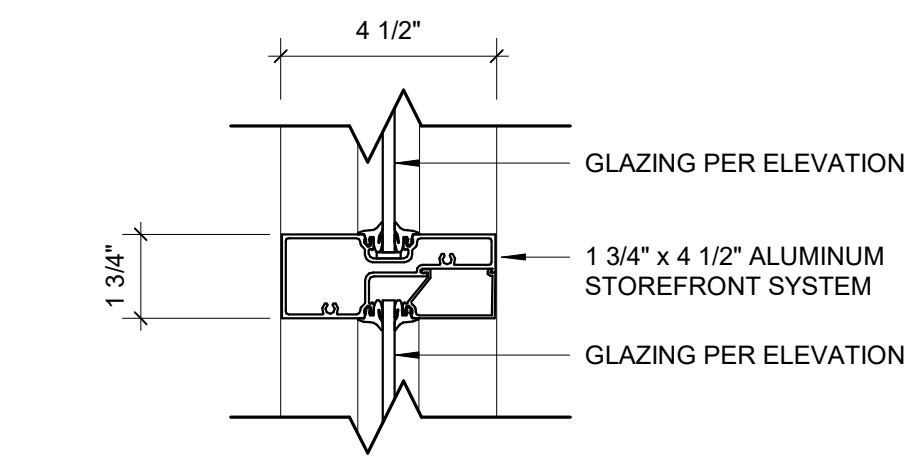
SECOND LEVEL														
W39	G	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	O/F/O	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	INSTALL WEATHER STRIPPING	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	REMOVE ORANGE RESIDUE ON STONE ABOVE
W40	G	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	INSTALL WEATHER STRIPPING	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	
W41	F	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	INSTALL WEATHER STRIPPING	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	
W42	F	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	INSTALL WEATHER STRIPPING	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	
W43	F	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	INSTALL WEATHER STRIPPING	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	CENTER COLUMN UNDER WINDOW APPEARS SCUFFED
W44	G	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	INSTALL WEATHER STRIPPING	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	STONE MEDALLION (BOTTOM RIGHT) FROM WINDOW IS CHIPPED
W45	G	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	INSTALL WEATHER STRIPPING	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	
W46	G	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	INSTALL WEATHER STRIPPING	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	
W47	F	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	INSTALL WEATHER STRIPPING	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	APPLY UV FILM TO EACH IGU; INTERIOR SILL CRACKED DOWN THE MIDDLE AND CHIPPED
W48	F	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	INSTALL WEATHER STRIPPING	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	APPLY UV FILM TO EACH IGU; INTERIOR SILL CRACKED DOWN THE MIDDLE AND CHIPPED
W49	F	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	INSTALL WEATHER STRIPPING	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	APPLY UV FILM TO EACH IGU; INTERIOR SILL CRACKED DOWN THE MIDDLE AND CHIPPED
W50	G	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	INSTALL WEATHER STRIPPING	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	
W51	G	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	INSTALL WEATHER STRIPPING	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	
W52	G	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	INSTALL WEATHER STRIPPING	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	
W53	F	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	INSTALL WEATHER STRIPPING	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	
W54	F	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	INSTALL WEATHER STRIPPING	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	
W55	F	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/O/F	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	INSTALL WEATHER STRIPPING	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	STONE CORNICE IS CHIPPED. CAPITAL OF FIRST FLOOR COLUMNS CHIPPED
W56	G	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/F/F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	STONE SILL CRACKED
W57	H	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	EXISTING DBL-HUNG. REMOVE EXCESS EXISTING PUTTY FROM STONE SILL AND NEARBY BRICK
W58	H	SCRAP, REPAIR LINTEL	-	WD	EXT. CLEAN; INT. SAND AND STAIN	-	F/F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	2	EXISTING DBL - HUNG. REMOVE BEE NEST
W59	L	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	-	O	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	GOOD EXISTING CONDITION	INTERIOR: WOOD SILL SPLITTING	-	G	1	
W60	L	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	-	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	
W61	K	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	-	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	
W62	L	SCRAP, REPAIR LINTEL	YES	MTL	CLEAN, SAND AND PAINT	-	O	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	GOOD EXISTING CONDITION	EXT. CLEAN; INT. SAND AND STAIN	-	M	5	BOTTOM SASH - REPLACE SASH FROM BULLET
W63	L	SCRAP, REPAIR LINTEL	-	MTL	CLEAN, SAND AND PAINT	-	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	
W64	K	SCRAP, REPAIR LINTEL	-	WD	CLEAN, SAND AND PAINT	-	F	-	-	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	
W65	L	SCRAP, REPAIR LINTEL	-	WD	CLEAN, SAND AND PAINT	-	O	SEAL CLOSE, REMOVE HDWR; PATCH HOLES	GOOD EXISTING CONDITION	EXT. CLEAN; INT. SAND AND STAIN	-	G	1	CLEAN, REMOVE TAPE
W66	L	SCRAP, REPAIR LINTEL	-	WD	CLEAN, SAND AND PAINT	-	F	-	-	EXT. CLEAN; INT. SAND AND STAIN				



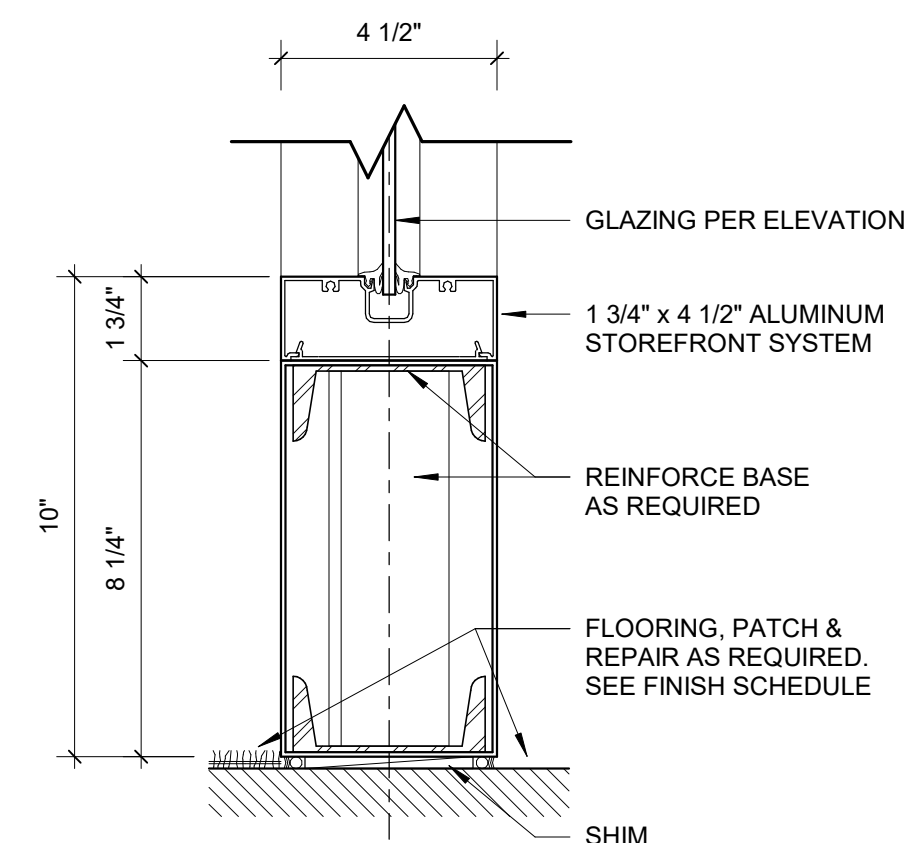
E1
A-622
HORIZONTAL MULLION (TYP.)
3\"/>



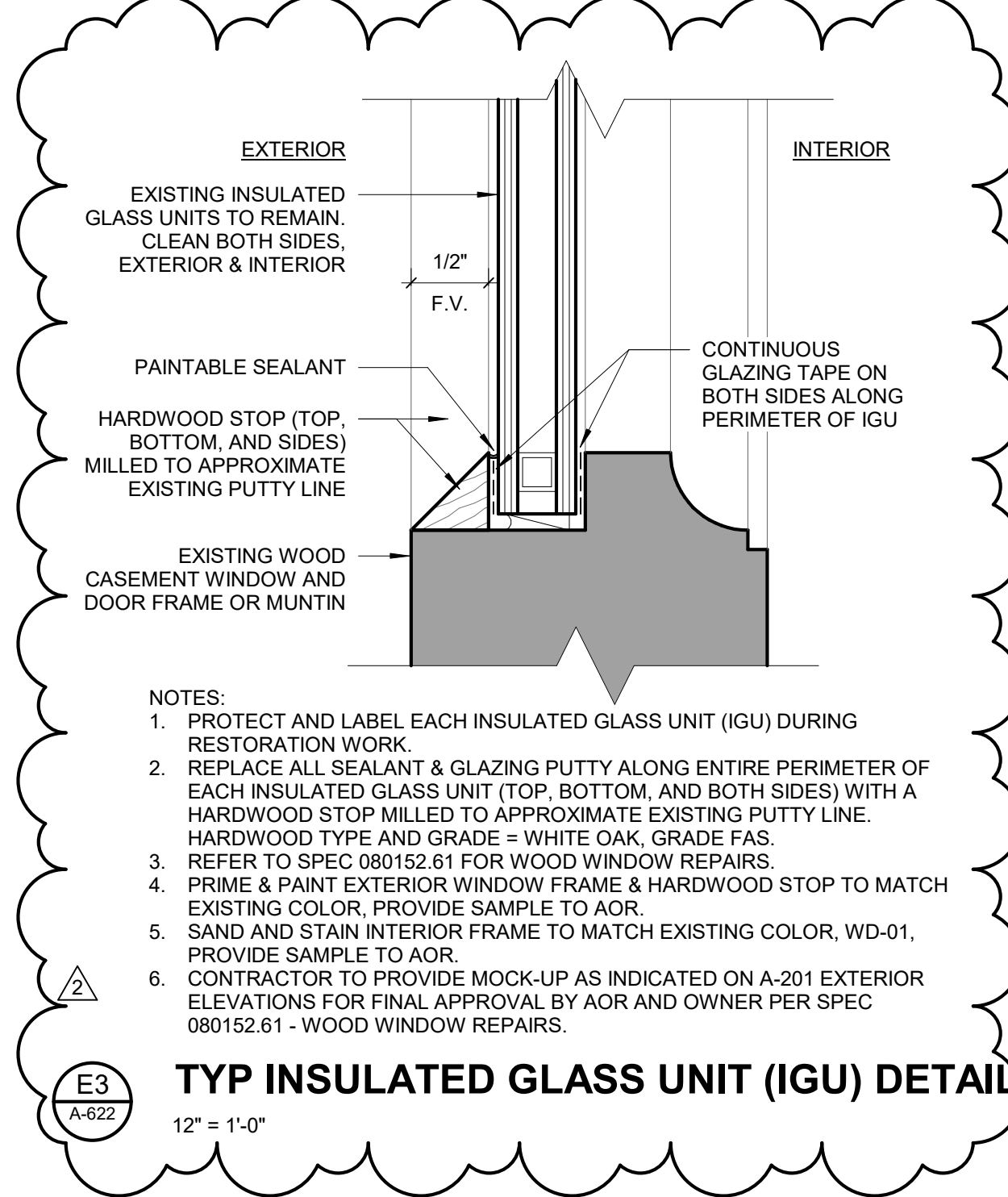
C1
A-622
STOREFRONT HEAD (TYP.)
3\"/>



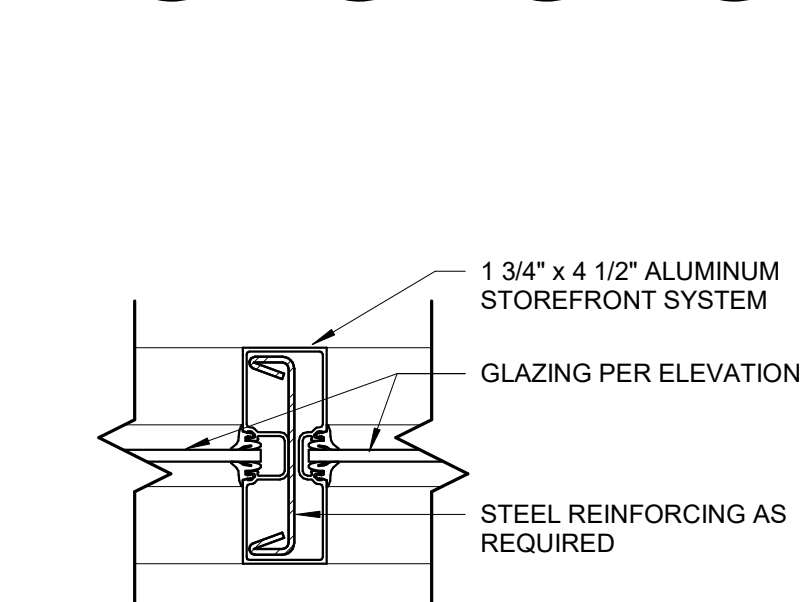
B1
A-622
HORIZONTAL MULLION (TYP.)
3\"/>



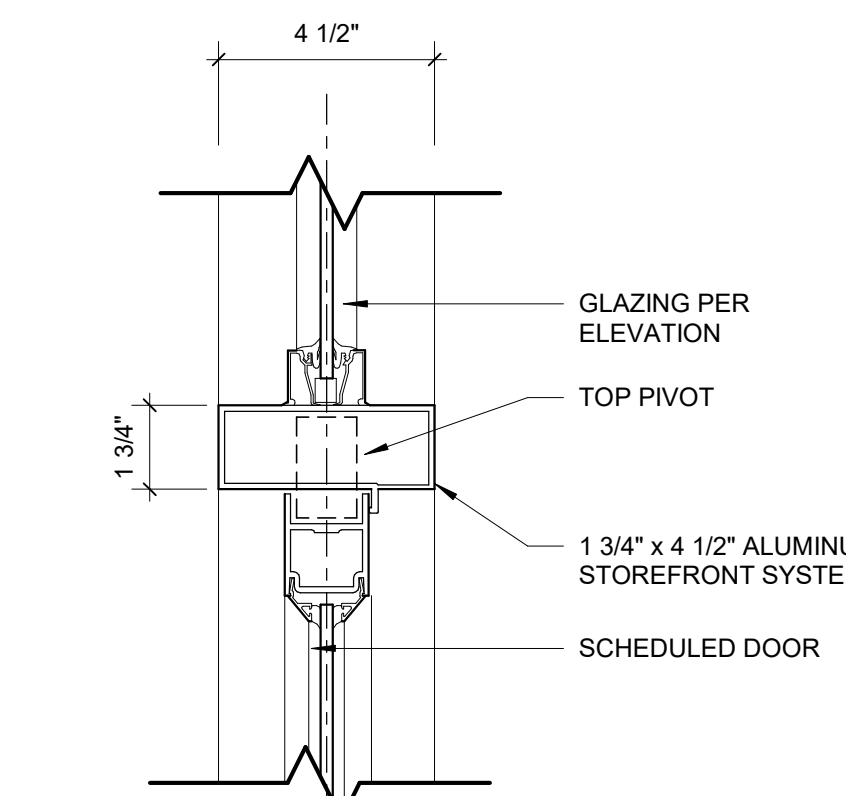
A1
A-622
STOREFRONT SILL (TYP.)
3\"/>



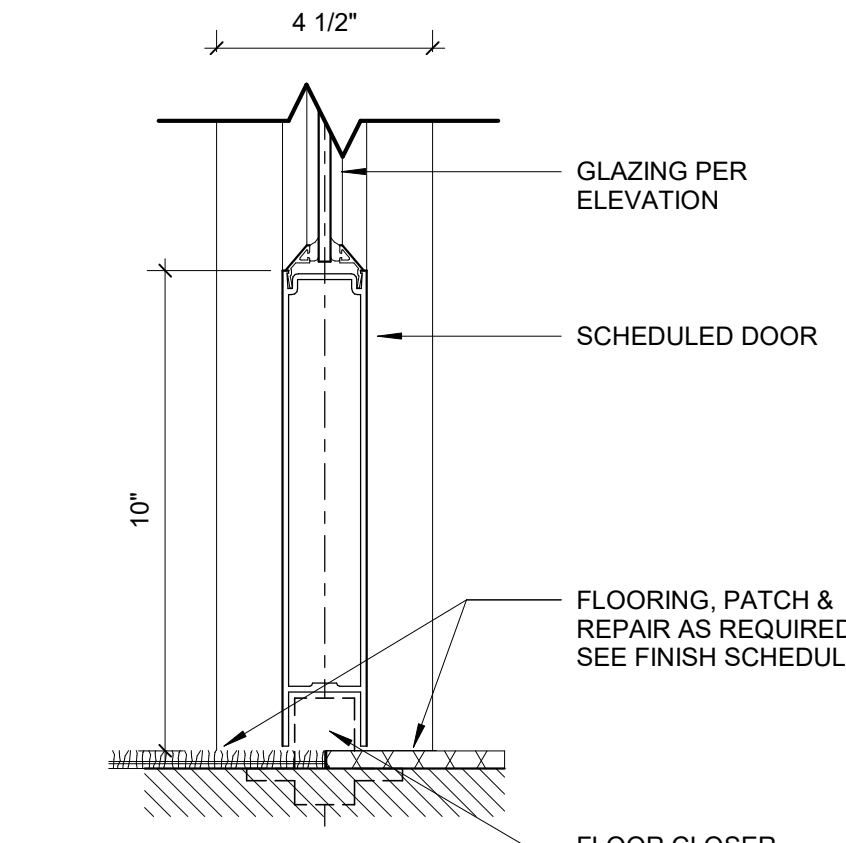
E3
A-622
TYP INSULATED GLASS UNIT (IGU) DETAIL
12\"/>



C3
A-622
VERTICAL MULLION (TYP.)
3\"/>

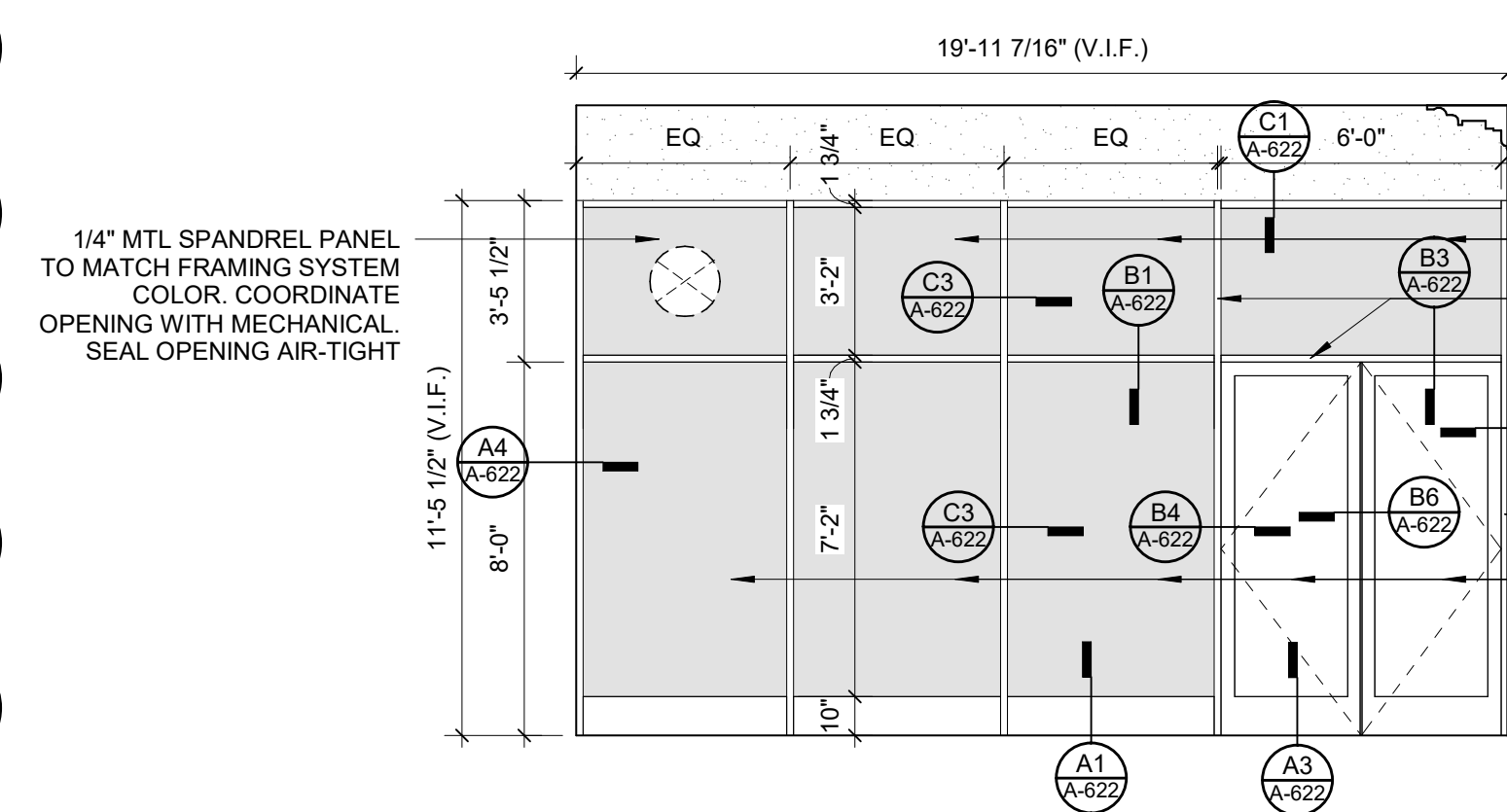


B3
A-622
STOREFRONT DOOR HEAD
3\"/>



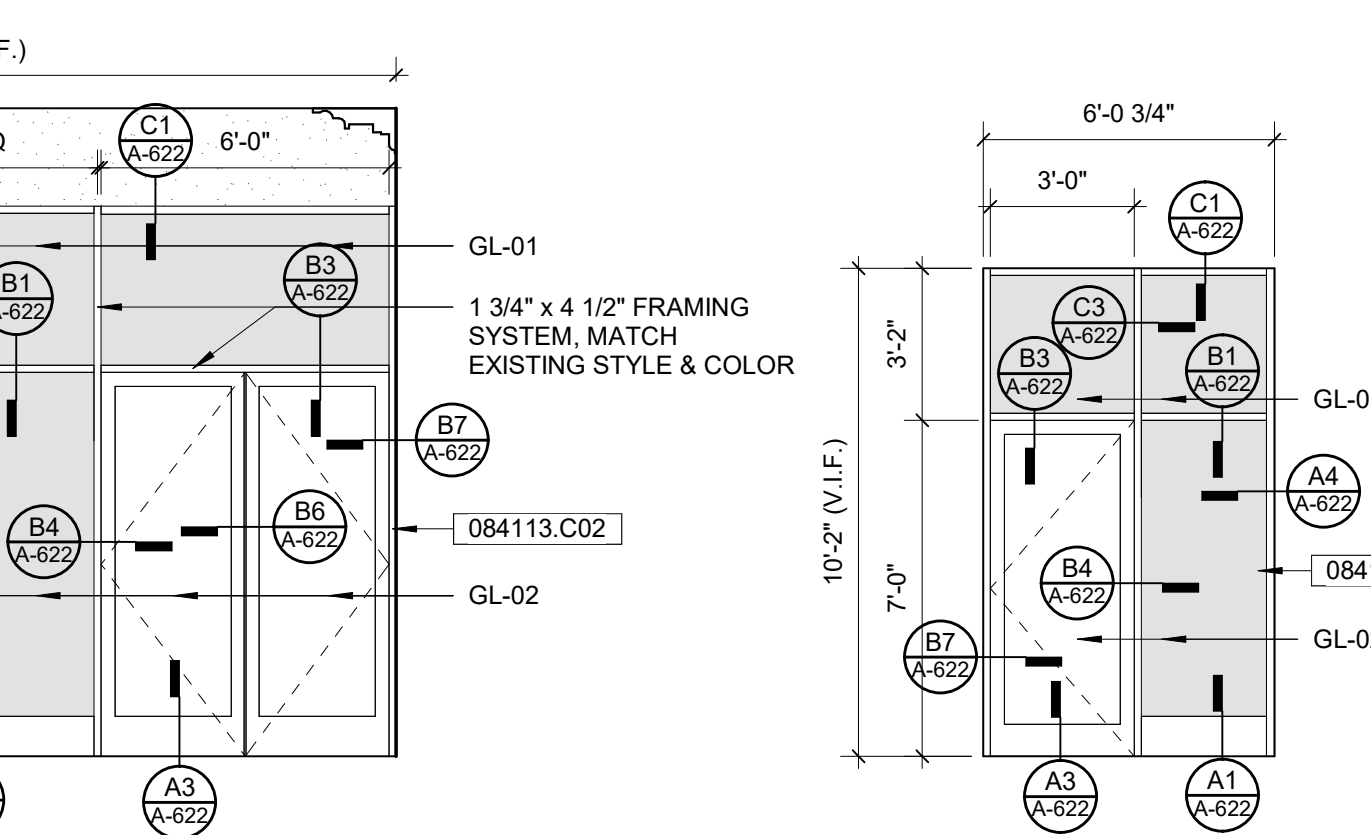
A3
A-622
STOREFRONT DOOR SILL
3\"/>

F4
A-622
106 STUDY ROOM STOREFRONT
1/4\"/>



E5
A-622
206 youMEDIA STOREFRONT
1/4\"/>

F6
A-622
106 STUDY ROOM STOREFRONT
1/4\"/>

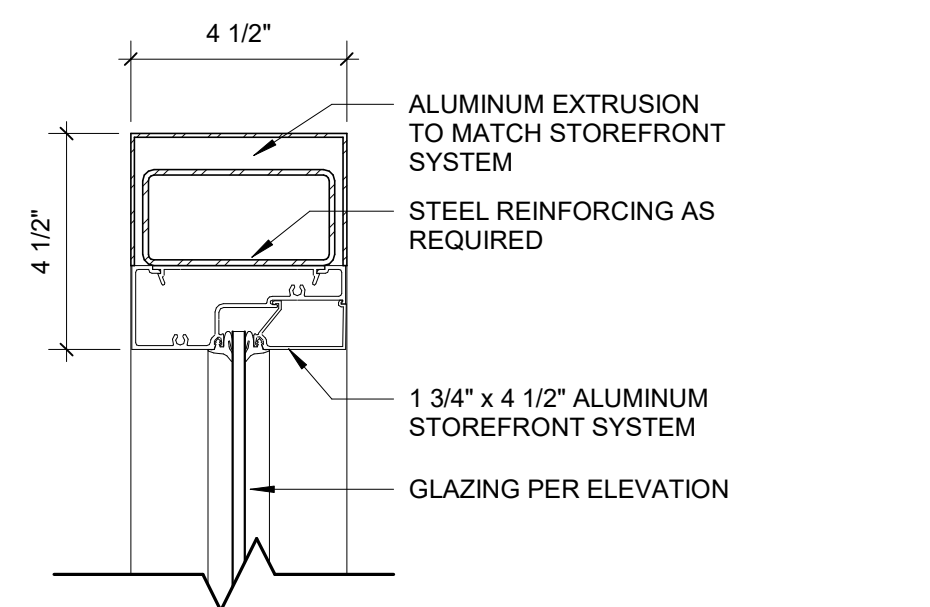


E7
A-622
209 MAKER LAB STOREFRONT
1/4\"/>

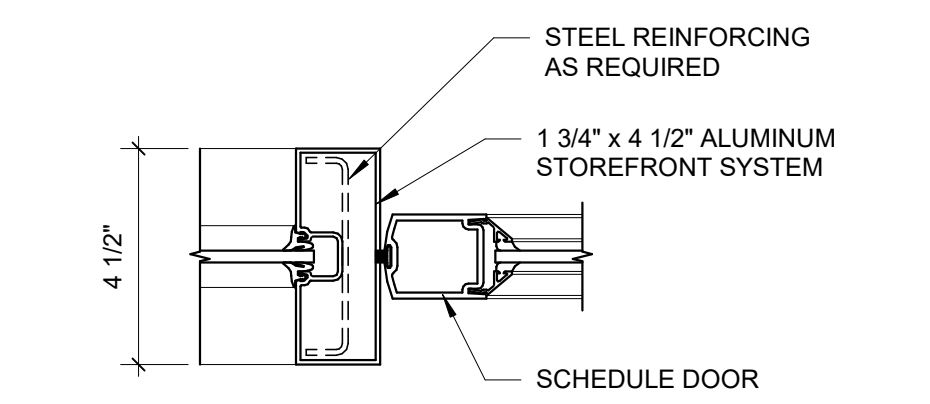
F7
A-622
106 STUDY ROOM STOREFRONT
1/4\"/>

NEW WINDOW SCHEDULE								
WINDOW #	R.O.		MATERIAL	HEAD	JAMB	SILL	HEAD HEIGHT	COMMENTS
	Width	Height						
W80	4'-0"	4'-0"	MTL	F2/A-621	D2/A-621	F2/A-621 SIM.	7'-2"	NEW WINDOW
W81	6'-0"	4'-6"	MTL	G1/A-621	G2/A-621	F1/A-621	7'-2"	NEW ACOUSTICAL WINDOW
W82	6'-0"	4'-6"	MTL	F2/A-621	D2/A-621	F2/A-621 SIM.	7'-2"	NEW WINDOW
W83	6'-0"	4'-6"	MTL	F2/A-621	D2/A-621	F2/A-621 SIM.	7'-2"	NEW WINDOW

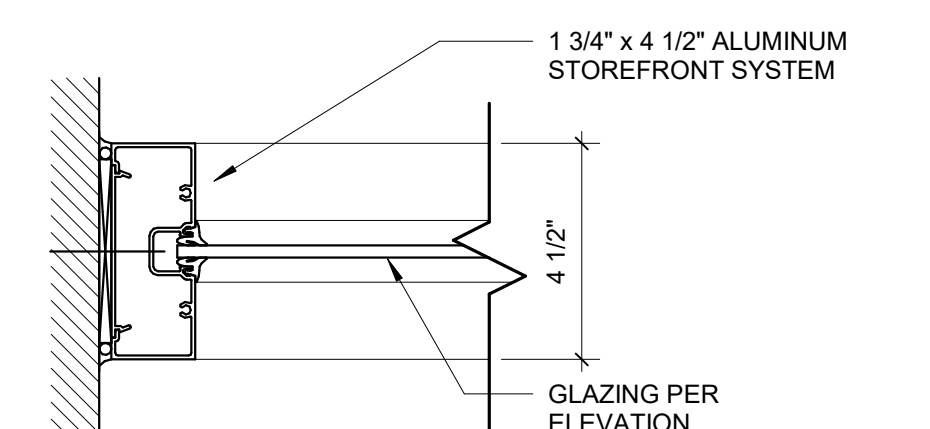
GLAZING SCHEDULE			
TYPE	THICKNESS	GLASS DESCRIPTION	COMMENTS
GL-01	1/4"	INTERIOR - CLEAR, ANNEALED FLOAT GLASS	
GL-02	1/4"	INTERIOR - CLEAR, TEMPERED FLOAT GLASS	
GL-03	1/4"	INTERIOR - CLEAR, CERAMIC, FIRE-RATED GLASS	90 MIN RATING
GL-04	3/8"	EXTERIOR - LOW E, INSULATING GLASS	MATCH EXISTING
GL-05	3/8"	CLEAR LAMINATED SAFETY GLASS	SOUND STUDIO
GL-06	1/4"	CLEAR LAMINATED SAFETY GLASS	SOUND STUDIO
GL-EX		EXISTING GLAZING	



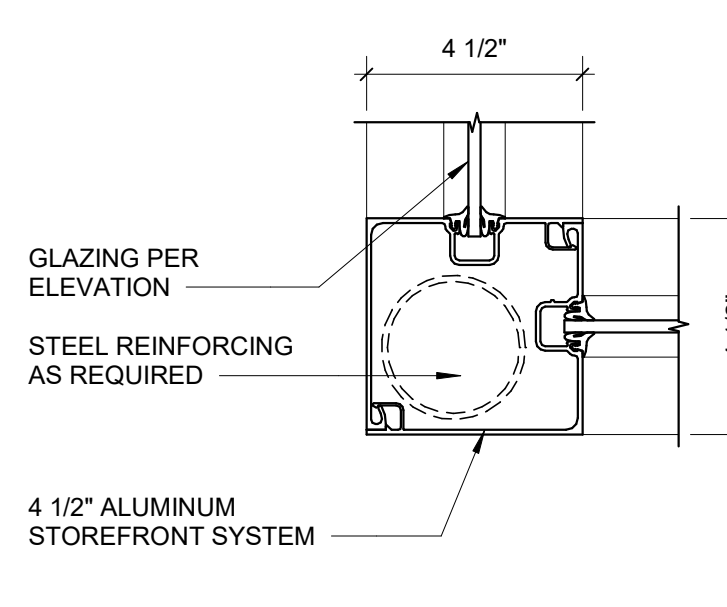
C4
A-622
TOP HORIZONTAL MULLION
3\"/>



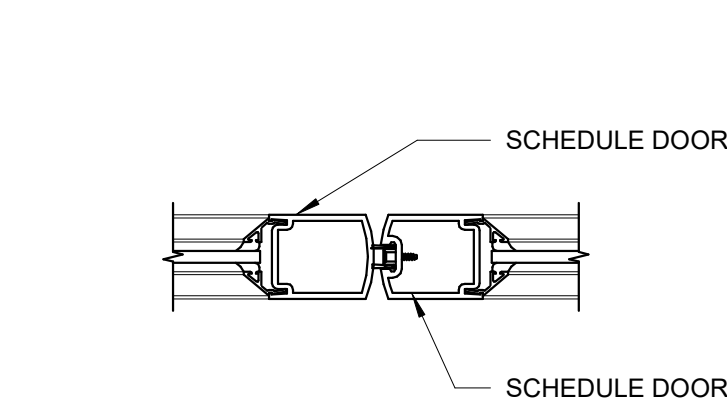
B4
A-622
DOOR JAMB WITH SIDELITE
3\"/>



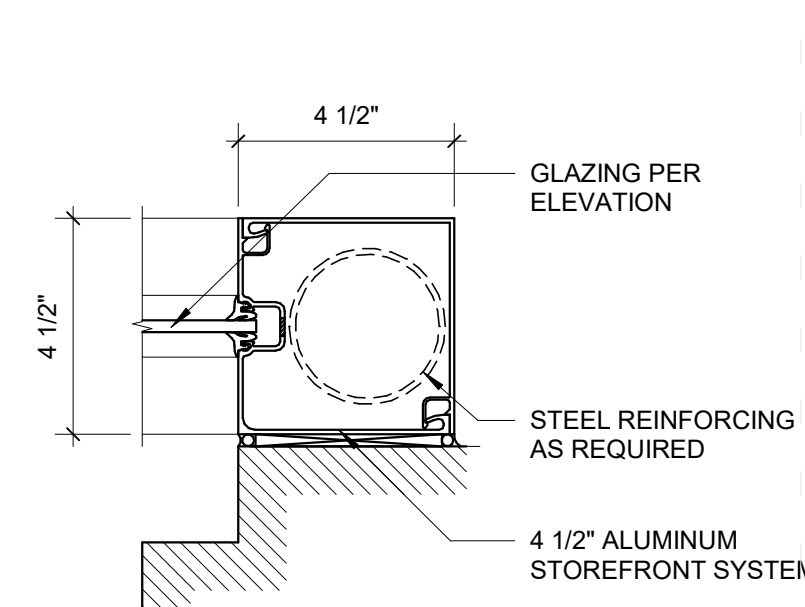
A4
A-622
JAMB AT WALL
3\"/>



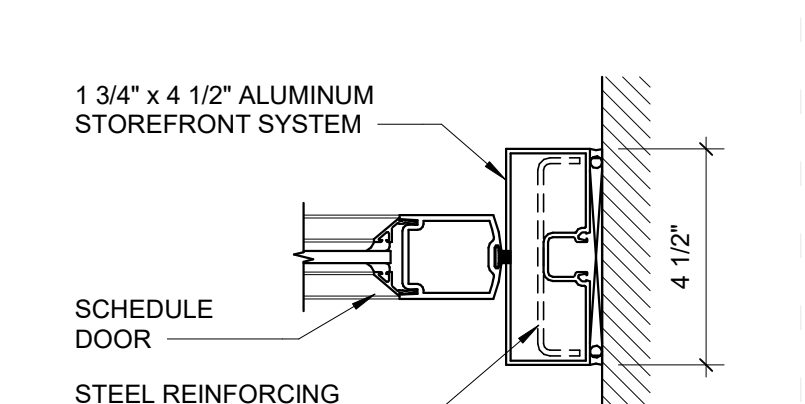
C6
A-622
INSIDE CORNER POST
3\"/>



B6
A-622
DOOR JAMB WITH SIDELITE
3\"/>



C7
A-622
CORNER POST AT JAMB
3\"/>



B7
A-622
STOREFRONT DOOR JAMB
3\"/>

GENERAL ENVIRONMENTAL NOTES

WARNING: VARIOUS COMPONENTS/SURFACES WITHIN THE BUILDING HAVE TESTED ABOVE AND BELOW THE LEAD THRESHOLD OF 1.0 MG/CM2 REGARDLESS OF CONCENTRATIONS. THERE IS A POTENTIAL FOR LEAD DUST GENERATION DURING DRILLING, CORING, PAINTING PREPARATION AND OTHER RENOVATION ACTIVITIES FOR ALL SMALL SCALE DISTURBANCES. THE CONTRACTOR SHALL FACILITATE THE APPROPRIATE MEASURES FOUND IN PROJECT SPECIFICATIONS TO PREVENT DUST MITIGATION TO OTHER PARTS OF THE BUILDING. LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (1926.62) COMPLIANCE, WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SPECIFICATIONS PROJECT SPECIFICATIONS.

WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

DOB STAMP APPROVAL



SEAL DATE 12/5/19

Leger Regional Library Renovation
115 S. Pulaski Road
Chicago, IL 60624
CHICAGO PUBLIC LIBRARY
CITY OF CHICAGO, MAYOR LORI LIGHTFOOT

Architect of Record:
RATIO

30 West Monroe Street, Suite 500
Chicago, Illinois 60603
312-465-2359
www.ratiodesign.com

TERRA Engineering Ltd.
225 W. Ohio Street, 4th Floor, Chicago, IL 60654
(312) 467-0123
Civil Engineers of Record

Steam-Joglekar, Ltd.
223 W. Jackson Blvd # 1110, Chicago, IL 60606
(312) 461-1600
Structural Engineers of Record

Brush Architects, LLC
6205 N. Francisco Ave, Chicago, IL 60618
(312) 925-3070
Facade Consultant

RCL Engineering Group
910 BOX 4626, Skokie, IL 60076
(847) 955-3366
Roofing Consultant

db | HMS
303 W. Erie St #510, Chicago, IL 60654
(312) 915-0577
MEFPF Engineers of Record

Gwen Grossman Lighting Design
63 W. Jackson Blvd, Chicago, IL 60654
(312) 877-5125
Lighting Design Consultant

Lerch Bates Inc.
216 S. Jefferson St, Suite L12, Chicago, IL 60661
(312) 332-5444
Elevator Consultant

Carnow, Conibear & Assoc., Ltd.
600 West Van Buren, Suite 500, Chicago, IL 60607
(312) 762-4486
Environmental Consultant

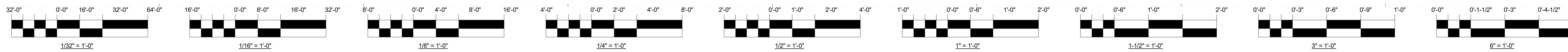
Mark	Description	Date
1	ISSUE FOR BID	11/13/19
2	ADDENDUM #3	12/5/19

PBC Project Name: Leger Regional Library
PBC Contract No: C1597
PBC Project No.: 08310

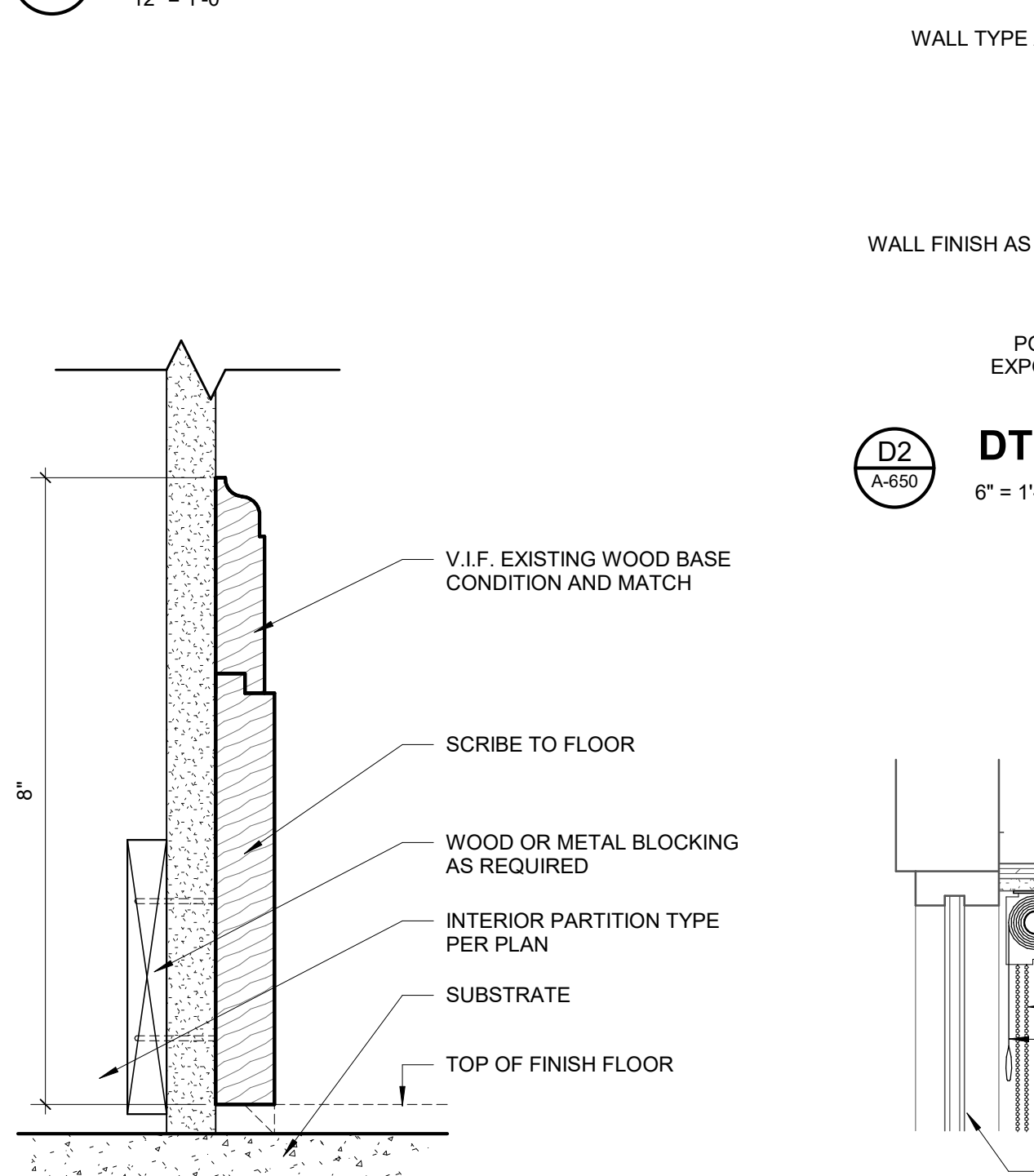
WINDOW ELEVATIONS AND DETAILS

Sheet

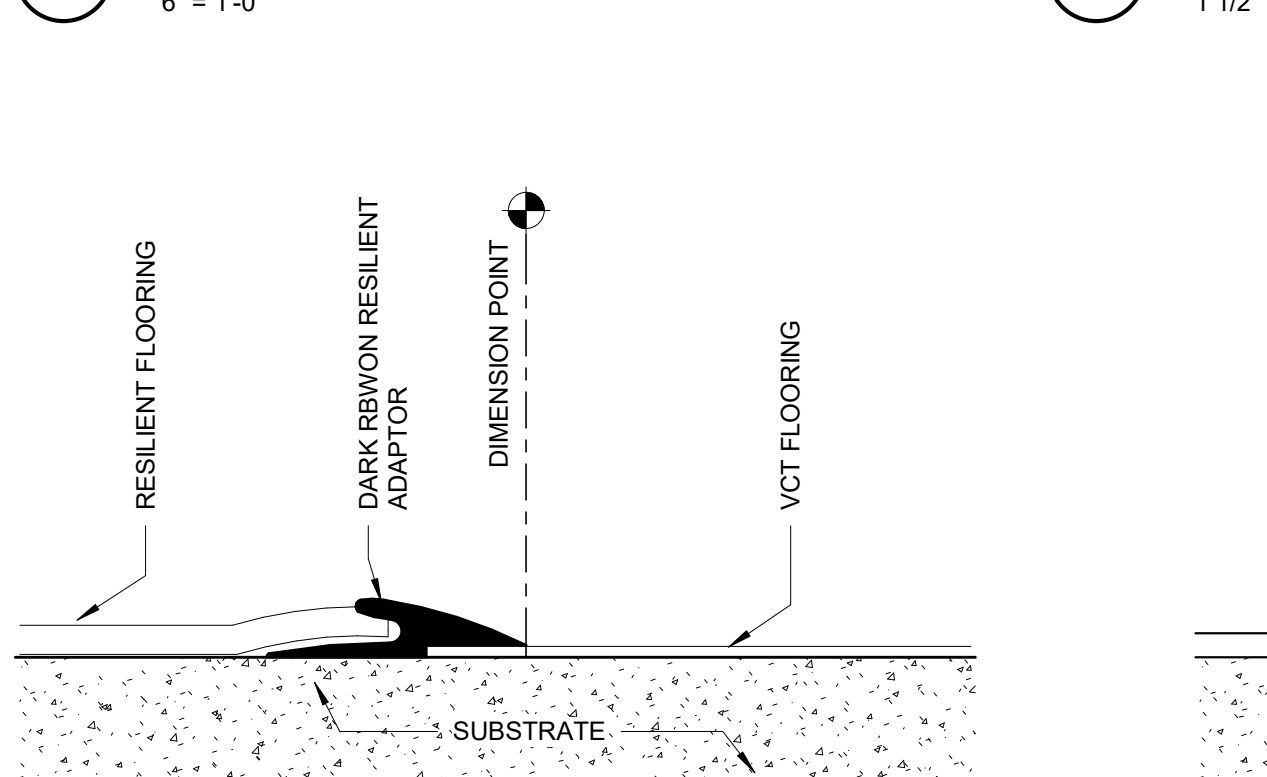
A-622



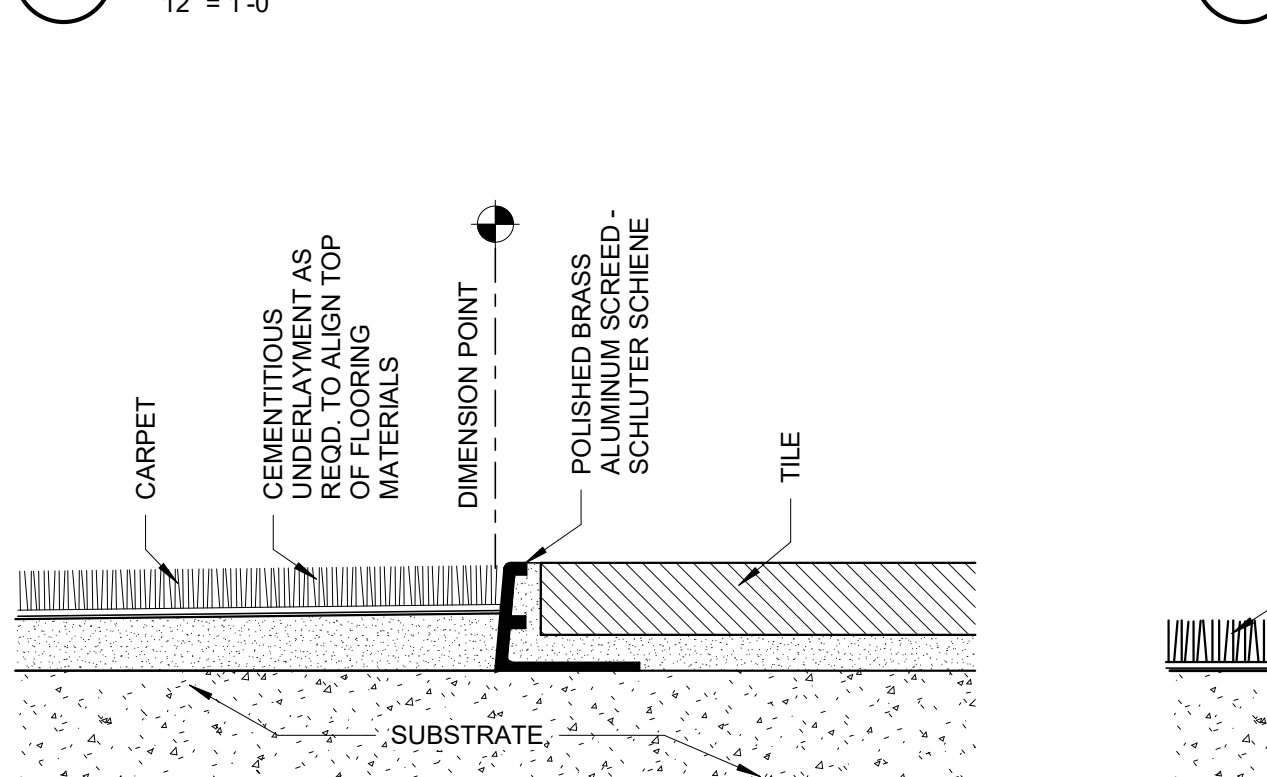
E1 LOBBY PLASTER PAINT DETAILS
12" = 1'-0"



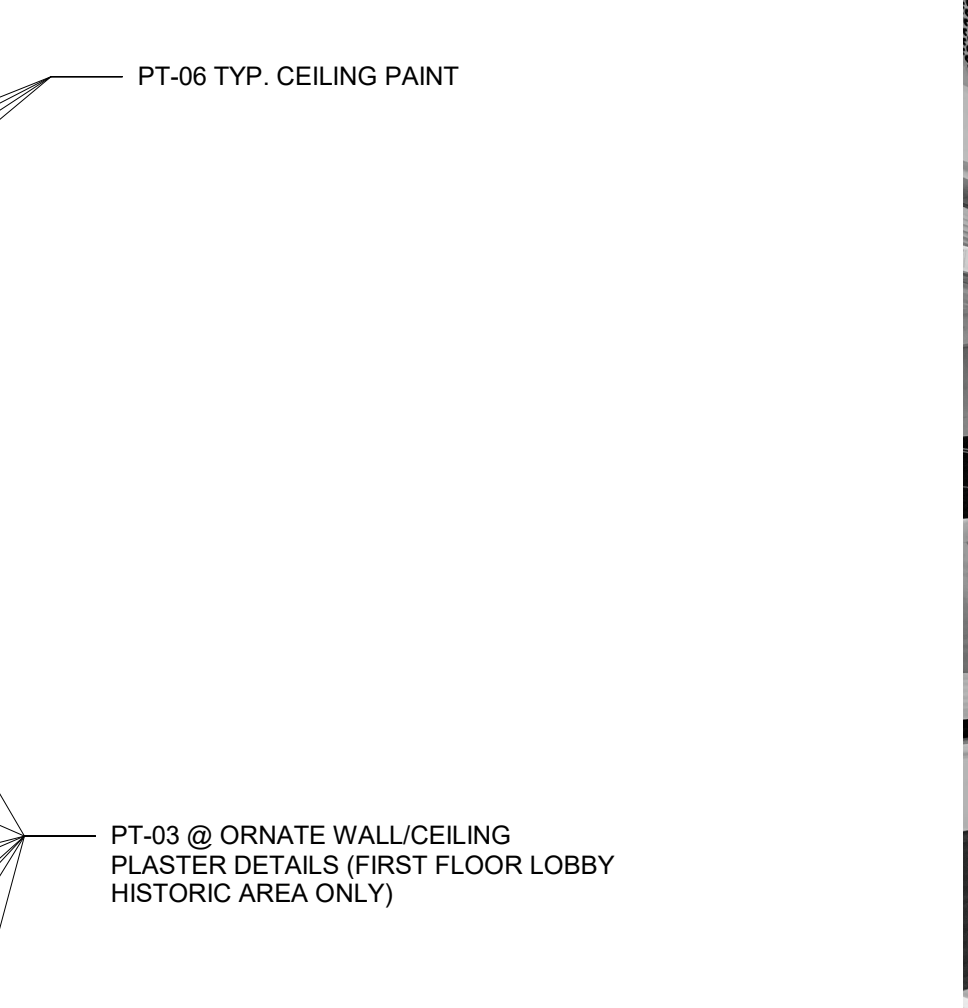
C1 DTL - EXISTING WOOD BASE
6" = 1'-0"



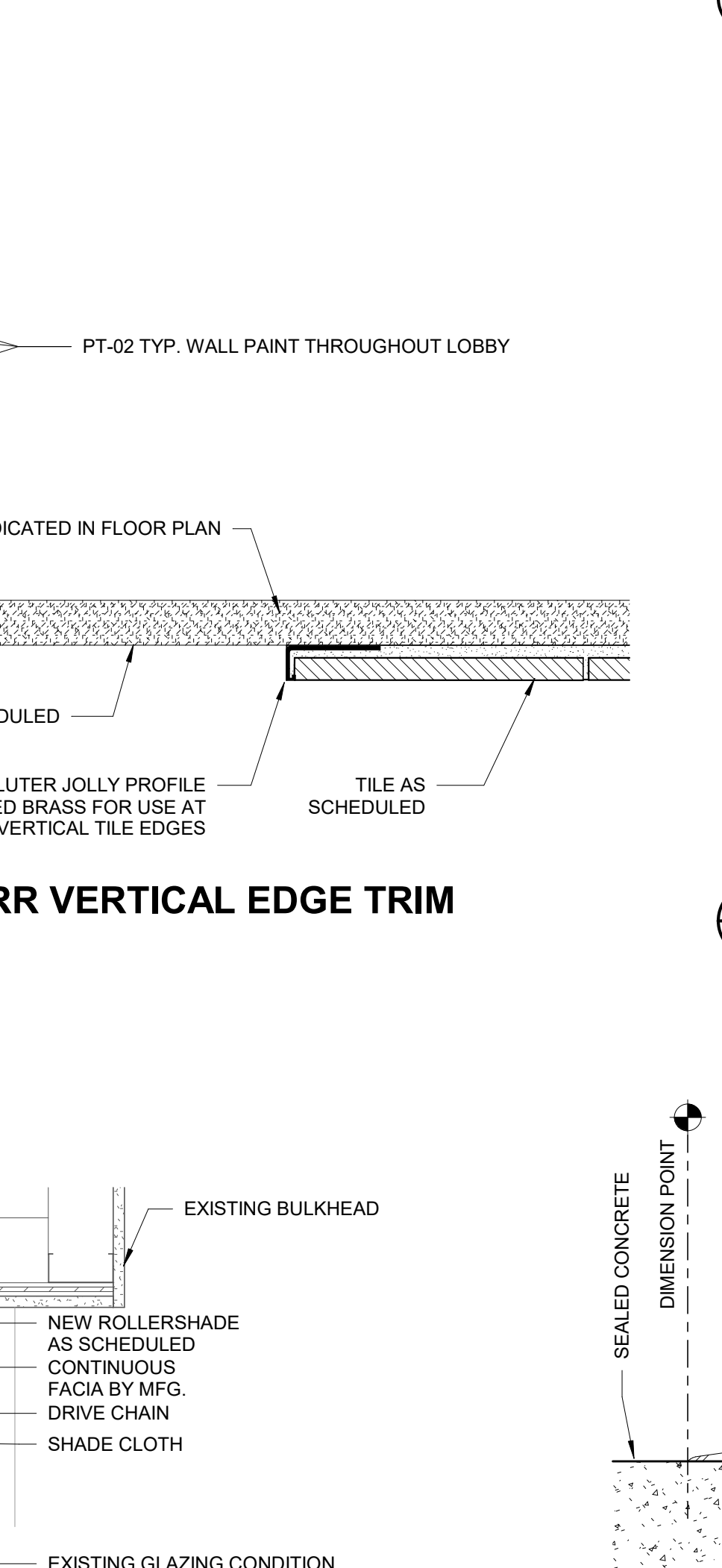
B1 TYP. RESILIENT TO VCT TRANSITION
12" = 1'-0"



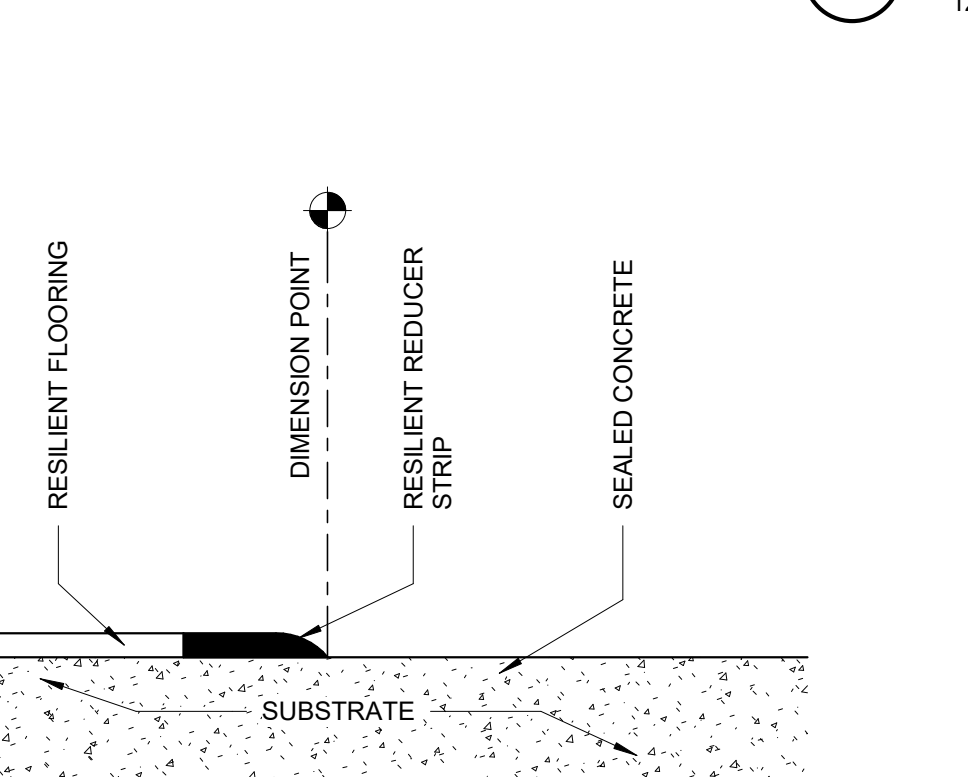
A1 TYP. CARPET TO TILE TRANSITION
12" = 1'-0"



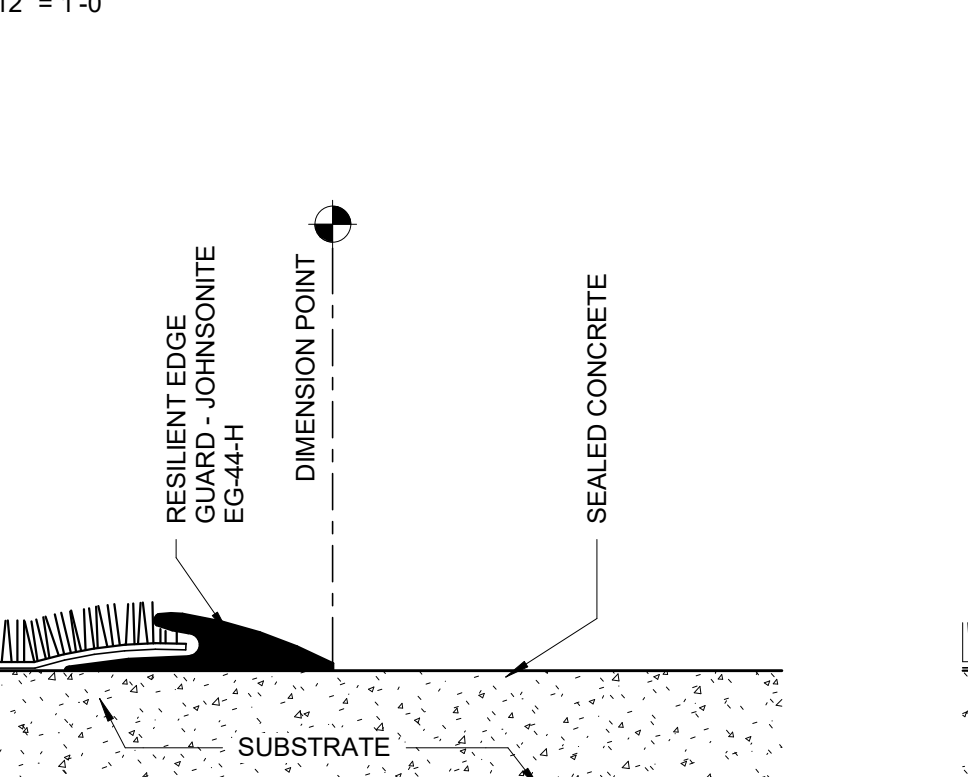
D2 DTL - RR VERTICAL EDGE TRIM
6" = 1'-0"



C2 TYP. PERIMETER ROLLER SHADE
1 1/2" = 1'-0"



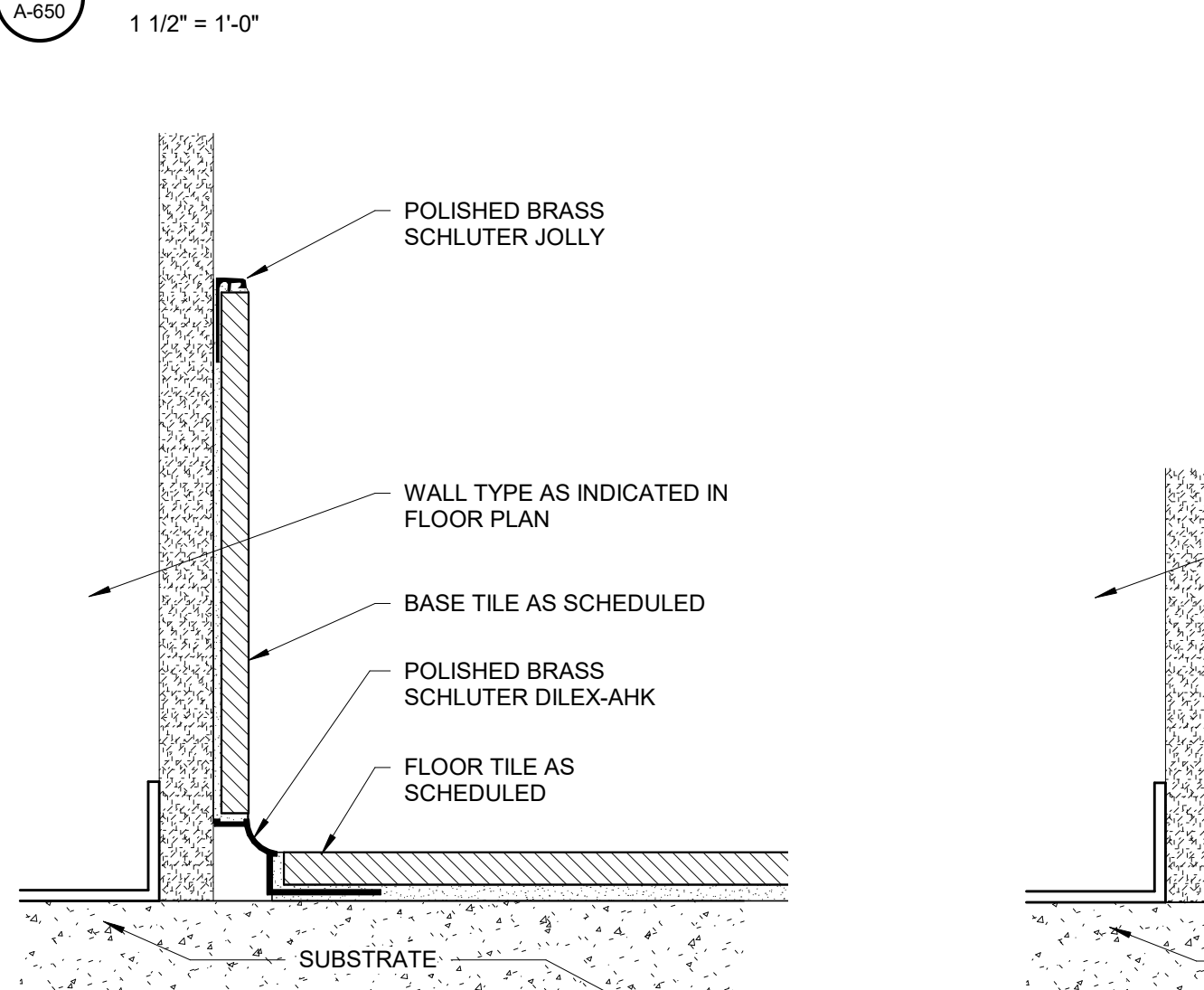
B2 TYP. RESILIENT TO CONC. TRANSITION
12" = 1'-0"



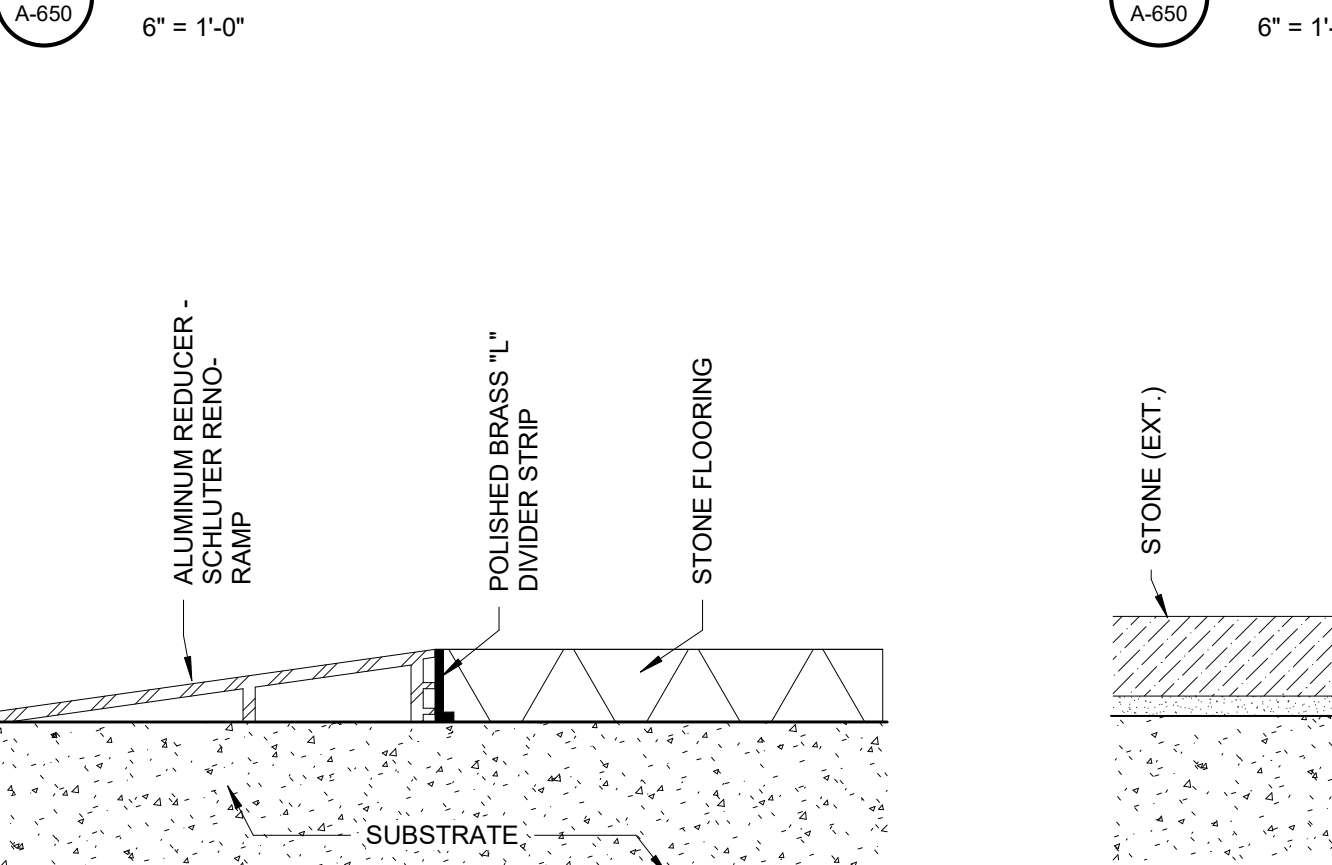
A2 TYP. CARPET TO CONC. TRANSITION
12" = 1'-0"



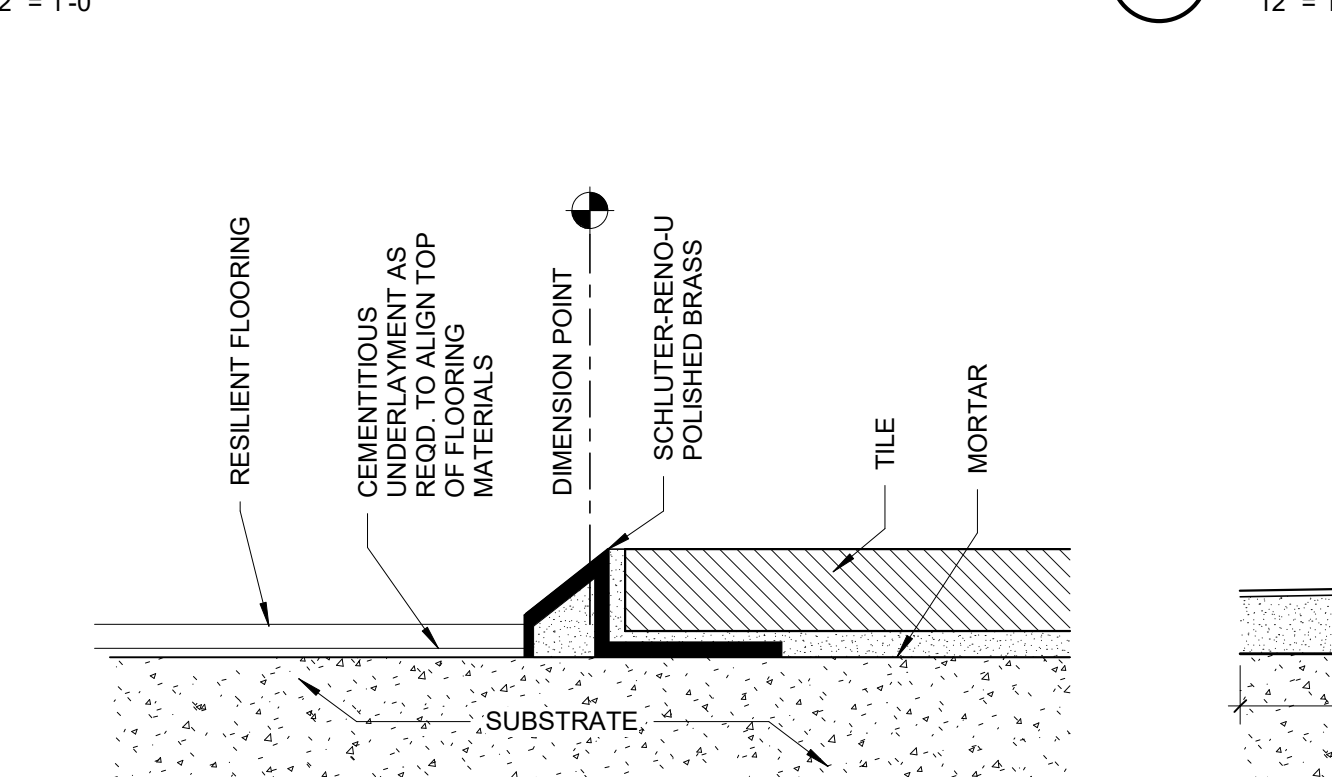
F3 DTL - LOBBY TILE INFILL
1 1/2" = 1'-0"



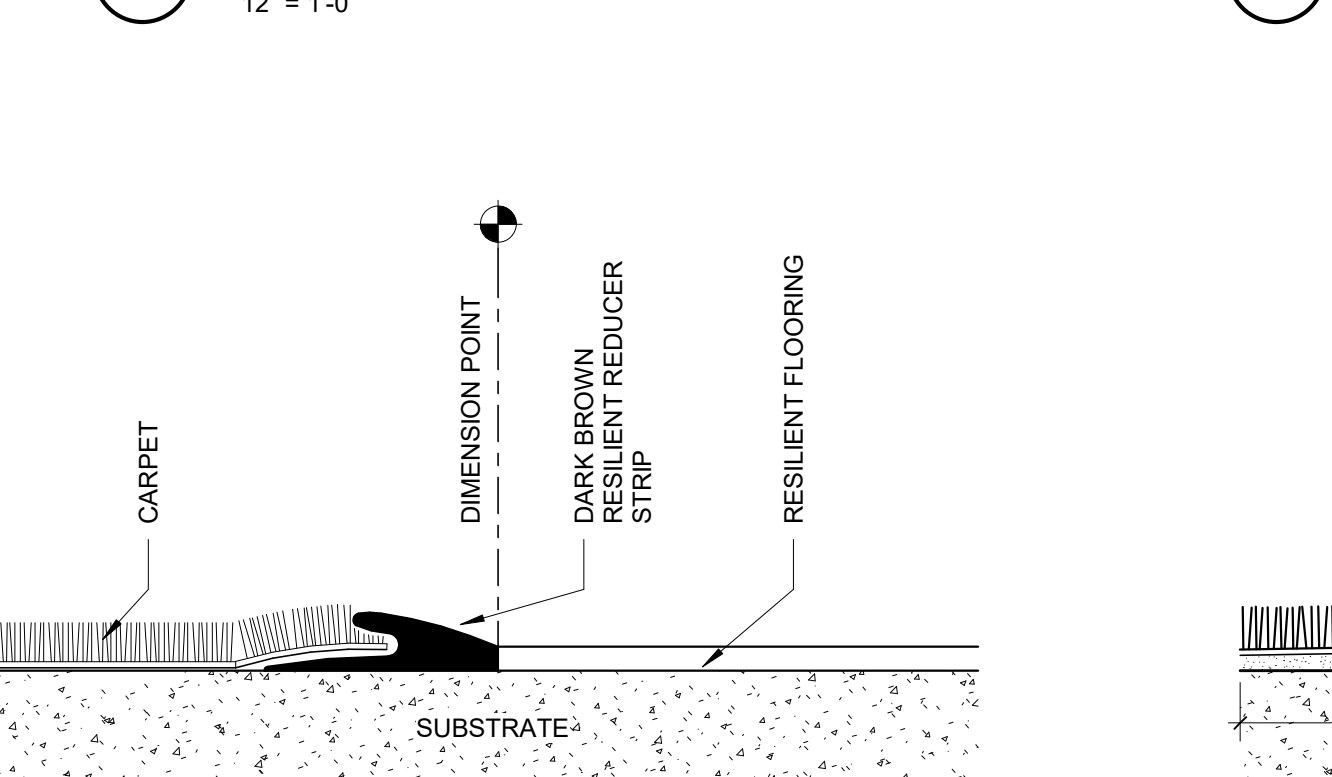
D3 DTL - RR BASE TO FLOOR TRIM
6" = 1'-0"



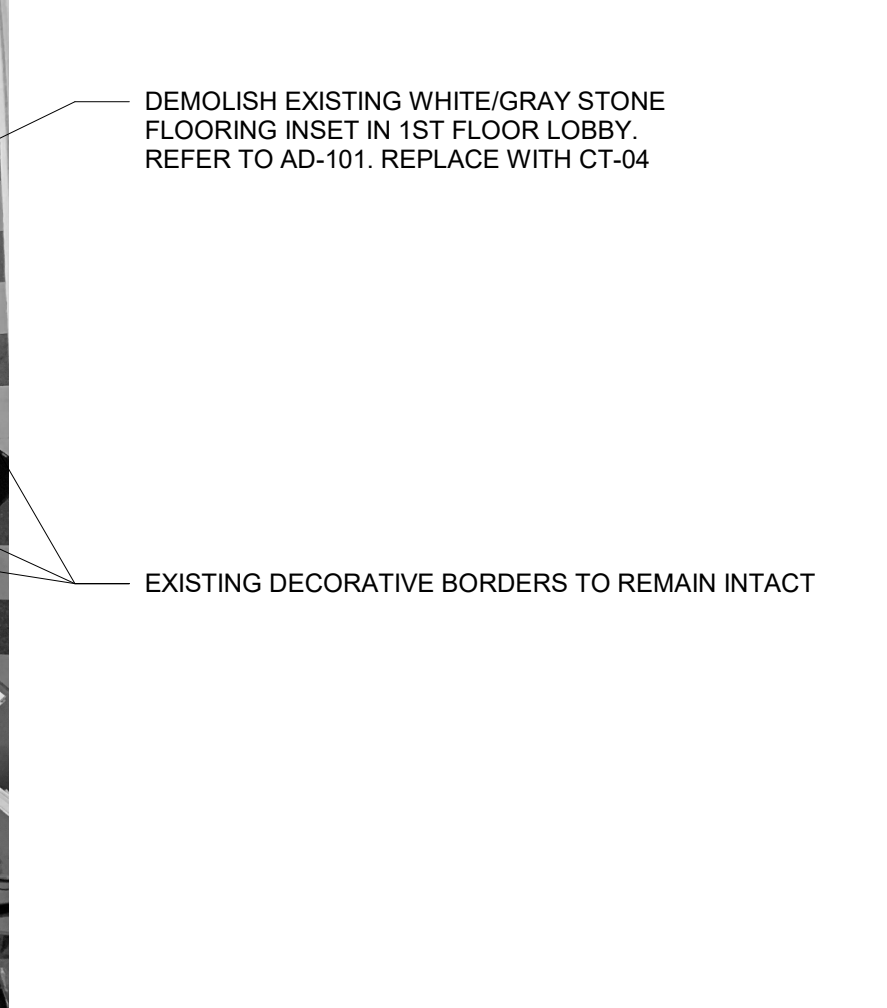
C3 TYP. CONCRETE TO STONE TRANSITION
12" = 1'-0"



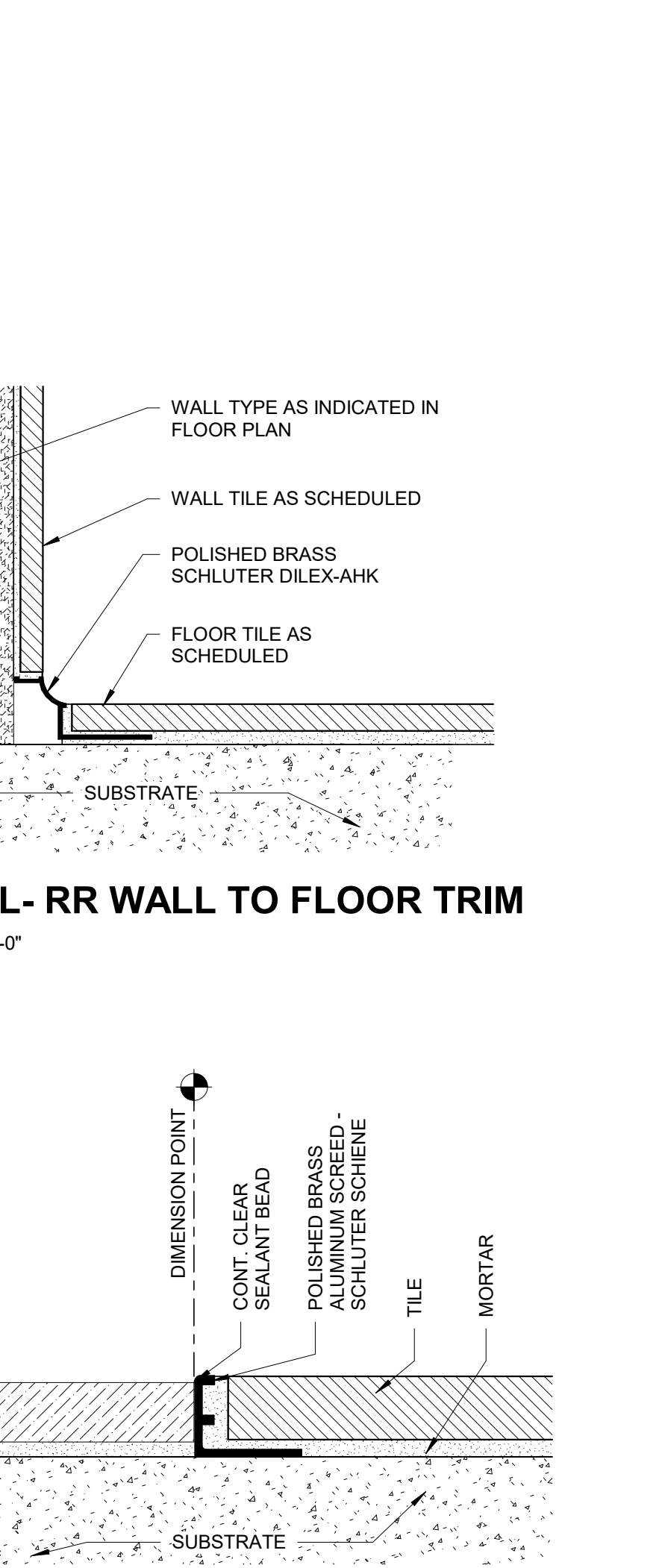
B3 TYP. RESILIENT TO TILE TRANSITION
12" = 1'-0"



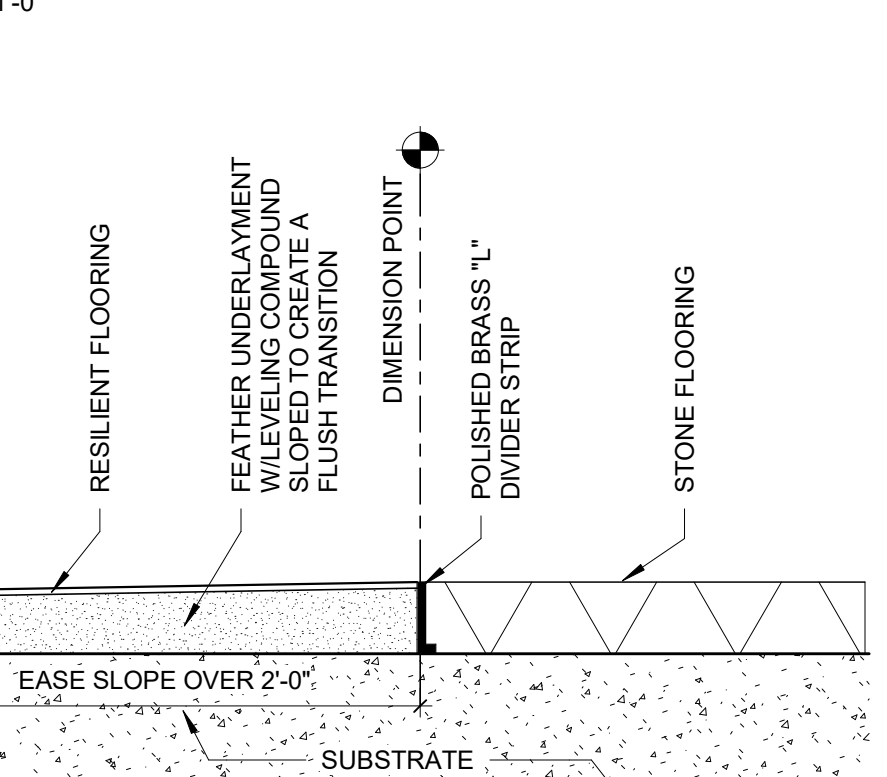
A3 TYP. CARPET TO RESILIENT TRANSITION
12" = 1'-0"



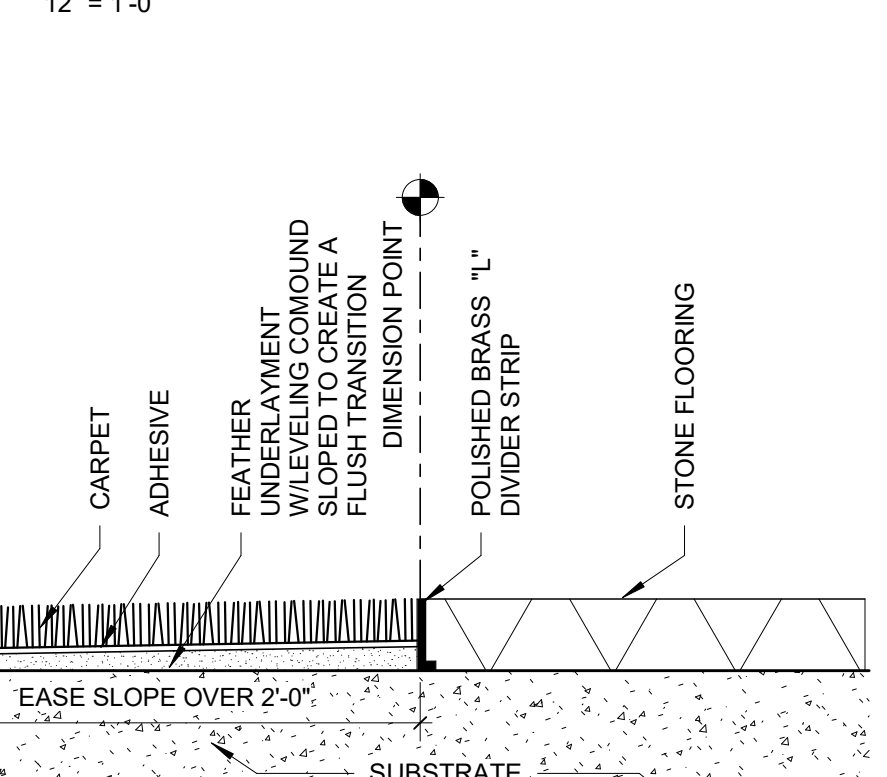
D4 DTL - RR WALL TO FLOOR TRIM
6" = 1'-0"



C4 TYP. STONE TO TILE TRANSITION
12" = 1'-0"



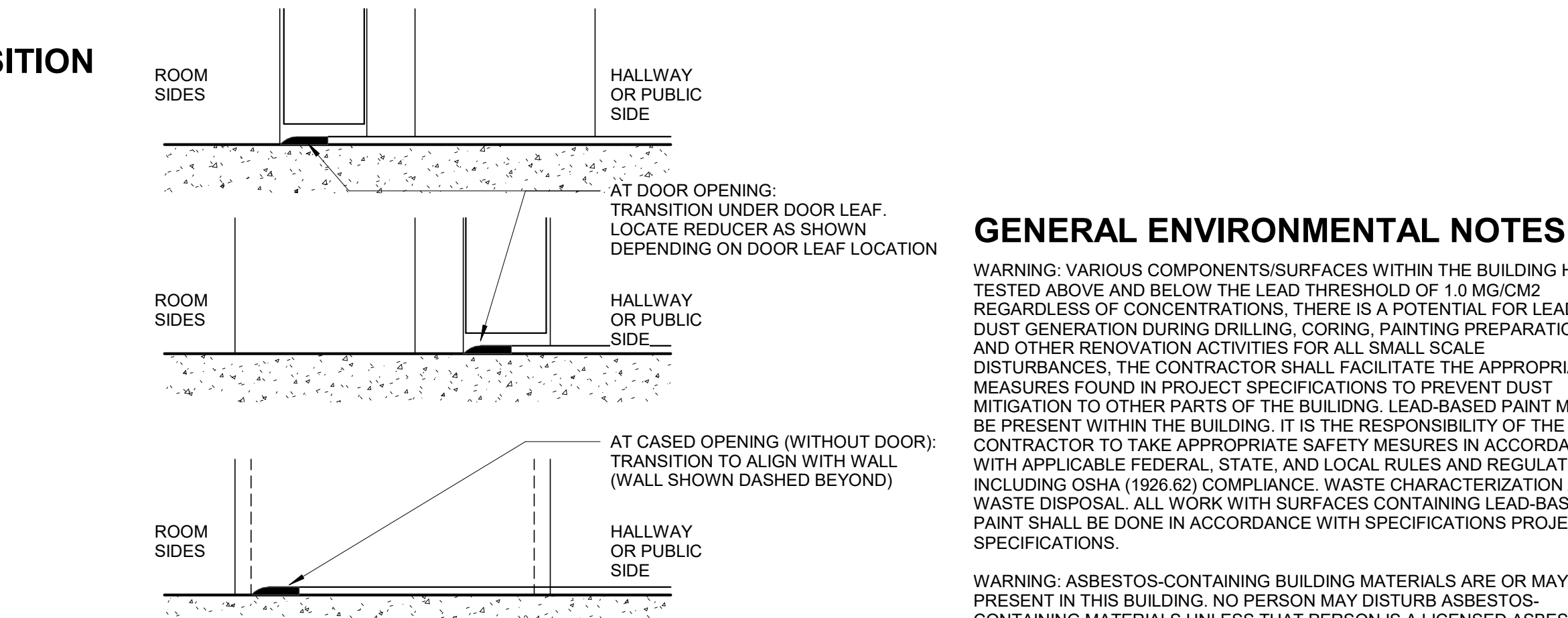
B5 TYP. RESILIENT TO STONE TRANSITION
12" = 1'-0"



A5 TYP. CARPET TO STONE TRANSITION
12" = 1'-0"

FINISH SCHEDULE

TAG	FINISH TYPE	MANUFACTURER	FINISH DESCRIPTION					COMMENTS
			STYLE	SIZE	PRODUCT NUMBER	COLOR	INSTALL NOTES	
ACT-01	ACOUSTICAL CEILING TILE	USG	MARS ACOUSTICAL PANELS	24" X 24" X 3/4"	86785 SLT	WHITE	USE WITH USG DXXDXL 15/16" TEE SYSTEM IN FLAT WHITE	TYP. ACOUSTICAL CEILING
ACT-02	ACOUSTICAL CEILING TILE	USG	MARS HIGH-NRC PANELS 90/30	24" X 24" X 1"	88138 SLT	WHITE	USE WITH USG DXXDXL 15/16" TEE SYSTEM IN FLAT WHITE	SOUND STUDIO CEILING
AF-01	ARCHITECTURAL FILM	SOLYX FILMS	TRANSLUCENT COLOR	V.I.F.	SXB-73	DARK GREY SAND BLAST	REFER TO DRAWINGS	TINTED WINDOW FILM
AWP-01	ACOUSTICAL WALL PANEL	ACOUSTICAL FULFILLMENT	FULFILL WALL PANEL	24"W X 50"H X 2"D. BEVELED EDGE	GUILFORD OF MAINE CHASE 2138	MOSS 1250	REFER TO DRAWINGS	PANELS TO MEET CLASS 'A' RATING PER ASTM E84
CG-01	CORNER GUARD	KOROSEAL	ANODIZED ALUMINUM CORNER GUARD	6L	N/A	BRASS	REFER TO DRAWINGS	
CPT-01	CARPET	MOHAWK	PER SPECIFICATIONS		GT178-729	SLIM	BRICK ASHLAR	REFER TO SPECIFICATIONS
CPT-01A	ACOUSTICAL UNDERLAYMENT	PER SPECIFICATIONS					INSTALL WITH CPT-01 IN SOUND STUDIO ONLY	REFER TO SPECIFICATIONS
CPT-02	CARPET	MOHAWK	COLORBEAT	24" X 24"	GT160-168	MUSTARD SEED	BRICK ASHLAR	REFER TO A-151 FOR LAYOUT
CPT-03	CARPET	TANDUS-CENTIVA	URBAN VIEW	24" X 24" / ETHOS MODULAR WITH OMNICOAT BACKING	04405-19806	STONE OAK	VERTICAL ASHLAR	BASEMENT OFFICE AREAS
CT-01	PORCELAIN TILE	VIRGINIA TILE	MARVEL PRO	12" X 24"	ATLMPSS1224R	STATUARIO SELECT / MATTE	RUNNING BOND W/ GR-01	RESTROOM FLOOR TILE
CT-02	PORCELAIN TILE	STONE SOURCE	LAGO DI VITTO	4" X 12"	N/A	BIANCO / POLISHED	VERTICAL STACK BOND W/ GR-01	RESTROOM WET WALL TILE
CT-03	PORCELAIN TILE	DESIGN & DIRECT SOURCE	ESSEX	3" X 12"	N/A	OLIVE / GLOSSY	VERTICAL STACK BOND W/ GR-01 / @ ABOVE RESTROOM COUNTERTOP ONLY	RESTROOM BACKSPLASH
CT-04	PORCELAIN TILE	DALTILE	KEYSTONES	2" X 2" MOSAIC	D311	BLACK/EBONY		INFILL FOR EXISTING STONE FLOOR AREAS
CTB-01	PORCELAIN TILE	VIRGINIA TILE	MARVEL PRO	12" X 24" / CUT TO 6" X 24"	ATLMPSS1224R	STATUARIO SELECT / MATTE	RUNNING BOND W/ GR-01 / MATCH TO FLOOR GROUT LINES / DO NOT INSTALL ON WALLS WITH CT-02 / INSTALL WITH SCHLUTER-JOLLY POLISHED BRASS ON TOP EDGE OF BASE	RESTROOM WALL BASE TILE
EPT-01	EPOXY PAINT	SHERWIN-WILLIAMS	PER SPECIFICATION	N/A	SW 7042	SHOJI WHITE / SEMI-GLOSS		EPOXY PAINT
GR-01	GROUT	TEC	POWER GROUT	N/A	908	DOVE GRAY	USE WITH CT-01,02,03 AND CTB-01	
LVT-01	LUXURY VINYL TILE	MOHAWK	SECOYA	9" X 9"	C0009-872	PICTON PARK	INSTALL RANDOM	LOWER CABINET TYP.
PL-01	PLASTIC LAMINATE	WILSONART	WOODGRAIN	REFER TO DRAWINGS	7984-12	MANGALORE GREEN		UPPER CABINET TYP.
PL-02	PLASTIC LAMINATE	FORMICA	LAMINATE	REFER TO DRAWINGS	8793-58	MANGO SLATE		ELEVATOR PANELS
PL-03	PLASTIC LAMINATE	WILSONART	COMPACT LAMINATE 114	REFER TO DRAWINGS	7984-60	MANGALORE MANGO		CIRCULATION DESK LETTERING
PL-04	PLASTIC LAMINATE	TRESPA	LUMEN	REFER TO DRAWINGS	LM0641	CHINA GOLD		CIRCULATION DESK BASE
PL-05	PLASTIC LAMINATE	TRESPA	UNI COLOURS	REFER TO DRAWINGS	A90.0.0	BLACK		CIRCULATION DESK BASE
PT-01	PAINT	SHERWIN-WILLIAMS	PER SPECIFICATION	N/A	SW 7042	SHOJI WHITE / EGG SHELL		TYP. WALL PAINT
PT-02	PAINT	SHERWIN-WILLIAMS	PER SPECIFICATION	N/A	SW 7042	SHOJI WHITE / SEMI-GLOSS		TYP. HIGH-TRAFFIC WALL PAINT
PT-03	PAINT	SHERWIN-WILLIAMS	PER SPECIFICATION	N/A	SW 6126	NAVAJO WHITE / SEMI-GLOSS		REFER TO A-650 E1
PT-04	PAINT	SHERWIN-WILLIAMS	PER SPECIFICATION	N/A	SW 7675	SEALSKIN / SEMI-GLOSS		HOLLOW METAL DOORS/ELEVATORS, FRAMES, AND LINTELS
PT-05	PAINT	SHERWIN-WILLIAMS	PER SPECIFICATION	N/A	SW 9091	HALF-CAFF / EGG SHELL		REFER TO PLANS
PT-06	PAINT	SHERWIN-WILLIAMS	PER SPECIFICATION	N/A	SW 7042	SHOJI WHITE / FLAT		TYP. CEILING PAINT
RB-01	WALL BASE-RESILIENT	TARKETT	INFLECTION	5 1/4"H	MW-44-G	DARK BROWN		DECORATIVE WALL BASE
RB-02	WALL BASE-RESILIENT	TARKETT	DURACOVE	4"H	DC 44 4 X 4 1/8	DARK BROWN		TYP. WALL BASE
RB-03	WALL BASE-RESILIENT	TARKETT	DURACOVE	4"H	DC 44 4 X 4 1/8 TOE	DARK BROWN		TYP. WALL COVE BASE
RF-01	RESILIENT FLOORING	AMERICAN BILTRITE	TEXAS GRANITE	12" X 12"	VTG-143	WHITE/TAUPE	MONOLITHIC	MAKER SPACE FLOORING
SC-01	SEALED CONCRETE	ASHFORD FORMULA	SEALED CONCRETE, LOW REFLECTIVITY	V.I.F.	N/A			SEAL EXISTING CONCRETE; REFER TO SPECIFICATIONS FOR SURFACE PREPARATION
SPT-01	HIGH-PERFORMANCE PAINT	SHERWIN-WILLIAMS	PER SPECIFICATION	N/A	SW 9091	SEALSKIN / SEMI-GLOSS		EXTERIOR PAINT
SPT-02	HIGH-PERFORMANCE PAINT	SHERWIN-WILLIAMS	PER SPECIFICATION	N/A	SW 7042	SHOJI WHITE / FLAT		EXISTING BOOKSTACKS
SS-01	STAINLESS STEEL	N/A	STAINLESS STEEL	REFER TO DRAWINGS	N/A	BRUSHED		ELEVATOR DOORS, CEILING, HANDRAILS, AND TOEKICKS
SSM-01	SOLID SURFACE	ARISTECH SURFACES	AVONITE SOLID SURFACE	REFER TO DRAWINGS	4312	ALASKAN STONE		TYP. COUNTERTOP
SSM-02	NOT USED							
SSM-03	QUARTZ	WILSONART	QUARTZ	REFER TO DRAWINGS	Q4004	MEHNDI		MAKER SPACE WORK SURFACE
SSM-04	SOLID SURFACE	ARISTECH SURFACES	AVONITE SOLID SURFACE	REFER TO DRAWINGS	8064	ICE WHITE		CIRCULATION DESK
ST-01	STONE-WALL BASE	DALTILE	MARBLE	12" X 12" CUT TO 6" X 12"	M741	EMPRESS GREEN	RUNNING BOND WITH GR-02	MATCH EXISTING STONE WALL BASE
ST-02	STONE-FLOORING	N/A	MARBLE	V.I.F.	N/A	MATCH EXISTING		MATCH ADJACENT EXISTING FLOORS
TP-01	TOILET PARTITION	BOBRICK	PER SPECIFICATION	V.I.F.	PER SPECIFICATION	CELLO 0811 FH		TYP. TOILET PARTITION
VCT-01	VINYL COMPOSITION TILE	ARMSTRONG	STANDARD EXCELON IMPERIAL TEXTURE	12" X 12"	59242	CAROB	MONOLITHIC	
VCT-02	VINYL COMPOSITION TILE	TARKETT	IQ GRANIT SD	ROLL	0710	FULL MOON / LIGHT GREY	MONOLITHIC	STATIC-DISSIPATIVE
WC-01	WALLCOVERING	WOLF GORDON	HUNTINGTON	62"W	RTM4039	ALABASTER	REVERSE HANG / RANDOM MATCH	
WD-01	WOOD VENEER	N/A	RED OAK	REFER TO DRAWINGS	N/A			MATCH EXISTING BOOKCASES
WT-01	ROLLER SHADE	MECHOSHADE	MANUAL URBANSHADE SYSTEM W/ CLASSIC BLACKOUT SHADE	V.I.F.	AL-0706	ALABASTER FASCIA / OYSTER SHADE		CIRCULATION DESK CASEWORK
WT-02	ROLLER SHADE	MECHOSHADE	MANUAL URBANSHADE SYSTEM W/ SOHO 1600 SERIES SHADE	V.I.F.	AL-1602	ALABASTER FASCIA / CANAL SHADE		3% OPEN SHADE



A6 TYP. EDGE STRIP LOCATION
6" = 1'-0"

GENERAL ENVIRONMENTAL NOTES

WARNING: VARIOUS COMPONENTS/SURFACES WITHIN THE BUILDING HAVE TESTED ABOVE AND BELOW THE LEAD THRESHOLD OF 1.0 MG/CM2 REGARDLESS OF CONCENTRATIONS. THERE IS A POTENTIAL FOR LEAD DUST GENERATION DURING DRILLING, CORING, PAINTING PREPARATION AND OTHER RENOVATION ACTIVITIES FOR ALL SMALL SCALE DISTURBANCES. THE CONTRACTOR SHALL FACILITATE THE APPROPRIATE MEASURES FOUND IN PROJECT SPECIFICATIONS TO PREVENT DUST MITIGATION TO OTHER PARTS OF THE BUILDING. LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (1926.62) COMPLIANCE. WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH SPECIFICATIONS PROJECT SPECIFICATIONS.

WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

DOB STAMP APPROVAL

CHICAGO PUBLIC LIBRARY

SEAL DATE 12/5/19

Leger Regional Library Renovation
115 S. Pulaski Road
Chicago, IL 60624
CHICAGO PUBLIC LIBRARY
CITY OF CHICAGO, MAYOR LORI LIGHTFOOT

Architect of Record:
RATIO
30 West Monroe Street, Suite 500
Chicago, Illinois 60603
312-465-2359
www.ratiodesign.com

TERRA Engineering Ltd.
225 W. Ohio Street, 4th Floor, Chicago, IL 60654
(312) 467-0123
Civil Engineers of Record

Stean-Joglekar, Ltd.
223 W. Jackson Blvd # 1110, Chicago, IL 60606
(312) 461-1600
Structural Engineers of Record

Brush Architects, LLC
312) 925-3070
Facade Consultant

RCL Engineering Group
30 BOX 458, Skokie, IL 60076
(847) 955-3366
Roofing Consultant

db | HMS
312) 915-0577
MEFPF Engineers of Record

Gwen Grossman Lighting Design
600 West Van Buren, Suite 500, Chicago, IL 60654
(312) 877-5125
Lighting Design Consultant

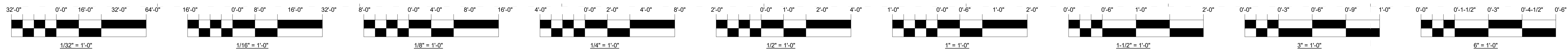
Lerch Bates Inc.
312) 332-5444
Elevator Consultant

Carnow, Conibear & Assoc., Ltd.
600 West Van Buren, Suite 500, Chicago, IL 60607
(312) 762-4486
Environmental Consultant

Issue No.	Description	Date
1	ISSUE FOR BID	11/13/19
2	ADDENDUM #3	12/5/19

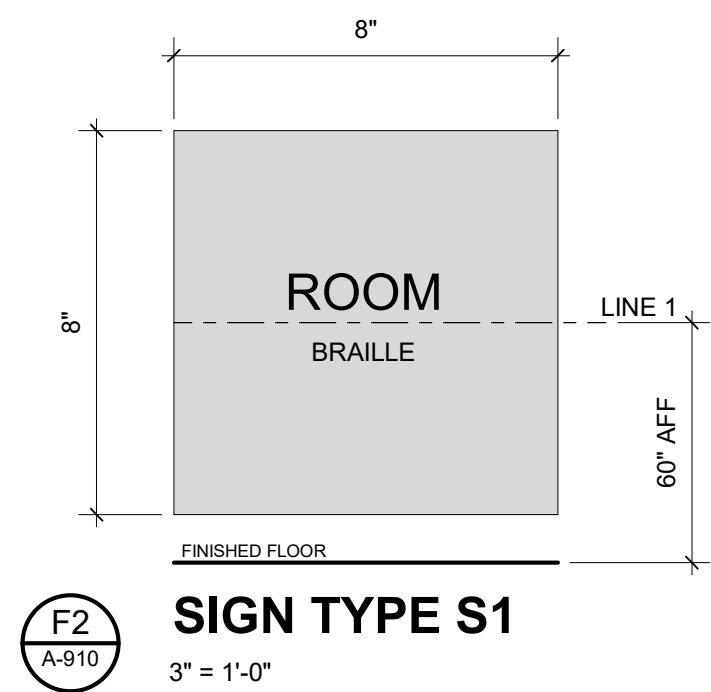
FINISH SCHEDULE AND DETAILS

A-650



RM NO	ROOM
006	UNEXCAVATED
007	STAFF LOUNGE
009	COMMUNITY ROOM
010	CLOSET
013	ELEV. EOPM
015	JANITORS CLOSET
016	ENGINEER LOCKER RM
017	MECHANICAL ROOM
018	FAN ROOM
020	CONDENSER ROOM
021	WORK ROOM
021A	ASST DIR.
021B	L-4 OFFICE
022	STORAGE
023	PUMP ROOM
024	MDP/ SERVER
025	STORAGE
026	LAUNDRY
103-A	CIRCULATION DESK
104	JANITOR'S CLOSET
105	STUDY ROOM
106	STUDY ROOM
107	ADULT/ REFERENCE READING ROOM
111	ARTIST IN-RESIDENCE
111A	CLOSET

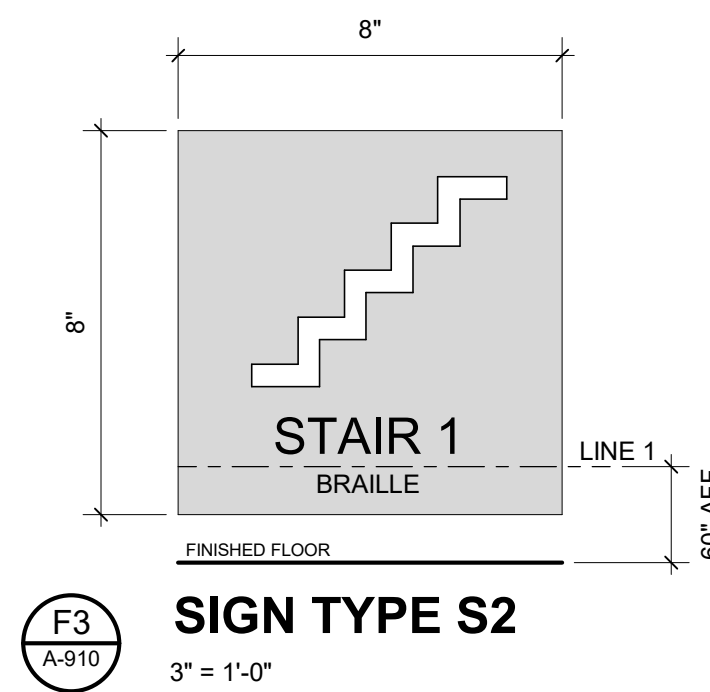
RM NO	ROOM
113	BOOK STACK AREA
115	STORAGE
116	RECEIVING ROOM
117	LOADING DOCK
118	ELEC RM
119	CHILDREN'S READING ROOM
126	WELLNESS ROOM
202	JANITORS CLOSET
203	ELEC RM
204	STORAGE
205	STORAGE
206	YOU MEDIA
208	TEENS STAFF ROOM
208A	TEENS STAFF HEAD
209	MAKER LAB
210	READING ROOM
210A	CLOSET
211	SOUND STUDIO
213	DIRECTORS OFFICE
214	EXEC OFFICE
217	ADMIN ASST.
218	CLOSET
220	STORAGE
227	COMPUTER LAB
230	ROOF (NOT ACCESSIBLE)
231	ROOF (NOT ACCESSIBLE)



SIGN TYPE S1
3\"/>

- SIGN S1 SPECIFICATIONS:**
- PANEL: 8"x8" PHOTOPOLYMER RAISED COPY AND GRADE 2 BRAILLE
 - CHARACTERS: HELVETICA STANDARD
 - COLOR: PANTONE SILVER 877
 - COPY: PANTONE BLACK 6
 - INSTALLATION: 1/16" THICK BLACK NEOPRENE FOAM TAPE AND SILICONE ADHESIVE AS REQUIRED.

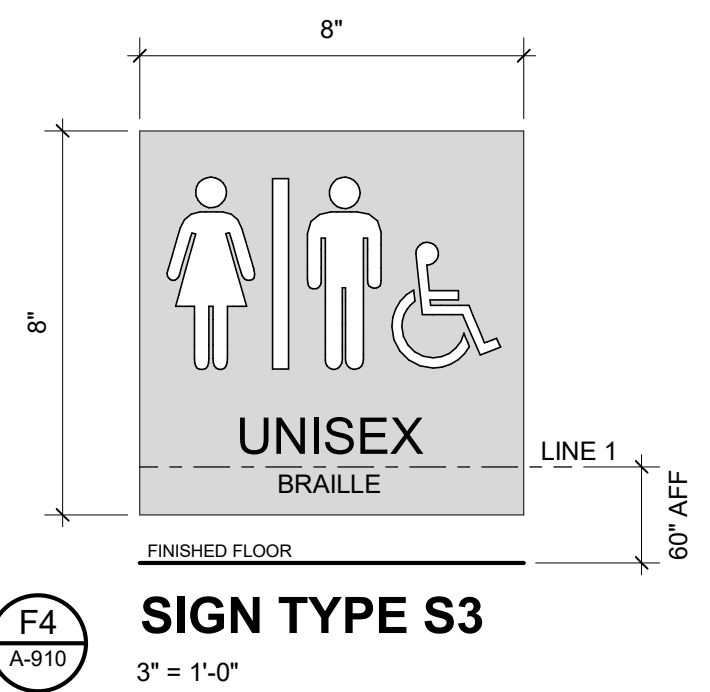
NOTES: ALL MATERIALS IN COMPLIANCE WITH ADA-ABA GUIDELINES AND UFAS 504 REQUIREMENTS.



SIGN TYPE S2
3\"/>

- SIGN S2 SPECIFICATIONS:**
- PANEL: 8"x8" PHOTOPOLYMER RAISED COPY AND GRADE 2 BRAILLE
 - CHARACTERS: HELVETICA STANDARD
 - COLOR: PANTONE SILVER 877
 - COPY: PANTONE BLACK 6
 - INSTALLATION: 1/16" THICK BLACK NEOPRENE FOAM TAPE AND SILICONE ADHESIVE AS REQUIRED.

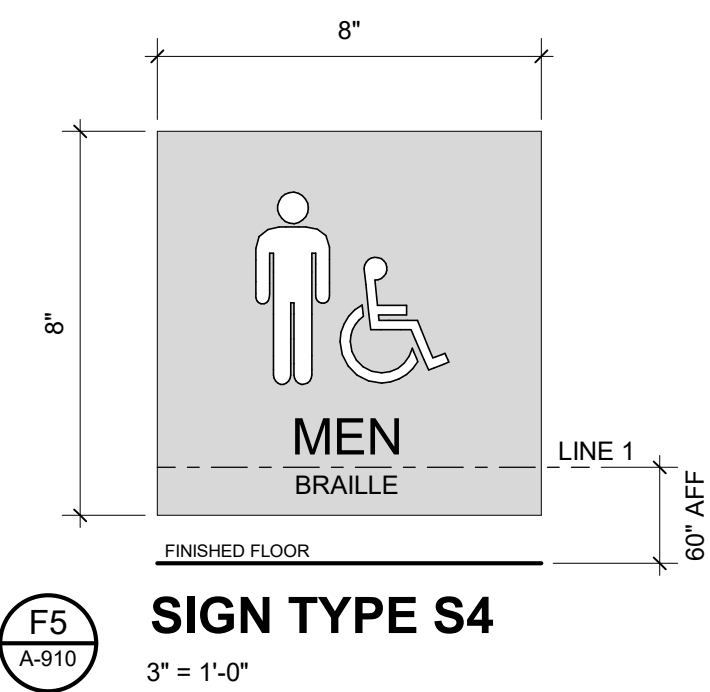
NOTES: ALL MATERIALS IN COMPLIANCE WITH ADA-ABA GUIDELINES AND UFAS 504 REQUIREMENTS.



SIGN TYPE S3
3\"/>

- SIGN S3 SPECIFICATIONS:**
- PANEL: 8"x8" PHOTOPOLYMER RAISED COPY AND GRADE 2 BRAILLE
 - CHARACTERS: HELVETICA STANDARD
 - COLOR: PANTONE SILVER 877
 - COPY: PANTONE BLACK 6
 - INSTALLATION: 1/16" THICK BLACK NEOPRENE FOAM TAPE AND SILICONE ADHESIVE AS REQUIRED.

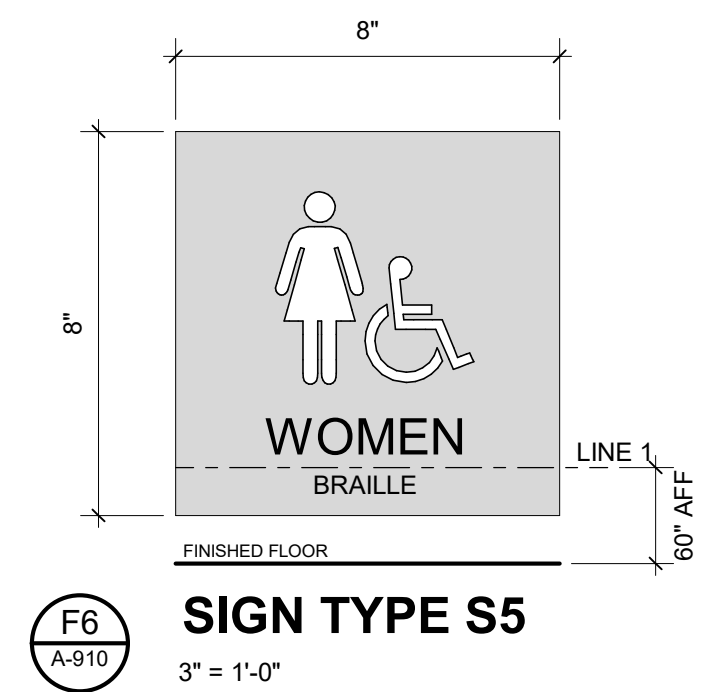
NOTES: ALL MATERIALS IN COMPLIANCE WITH ADA-ABA GUIDELINES AND UFAS 504 REQUIREMENTS.



SIGN TYPE S4
3\"/>

- SIGN S4 SPECIFICATIONS:**
- PANEL: 8"x8" PHOTOPOLYMER RAISED COPY AND GRADE 2 BRAILLE
 - CHARACTERS: HELVETICA STANDARD
 - COLOR: PANTONE SILVER 877
 - COPY: PANTONE BLACK 6
 - INSTALLATION: 1/16" THICK BLACK NEOPRENE FOAM TAPE AND SILICONE ADHESIVE AS REQUIRED.

NOTES: ALL MATERIALS IN COMPLIANCE WITH ADA-ABA GUIDELINES AND UFAS 504 REQUIREMENTS.



SIGN TYPE S5
3\"/>

- SIGN S5 SPECIFICATIONS:**
- PANEL: 8"x8" PHOTOPOLYMER RAISED COPY AND GRADE 2 BRAILLE
 - CHARACTERS: HELVETICA STANDARD
 - COLOR: PANTONE SILVER 877
 - COPY: PANTONE BLACK 6
 - INSTALLATION: 1/16" THICK BLACK NEOPRENE FOAM TAPE AND SILICONE ADHESIVE AS REQUIRED.

NOTES: ALL MATERIALS IN COMPLIANCE WITH ADA-ABA GUIDELINES AND UFAS 504 REQUIREMENTS.

GENERAL SIGNAGE NOTES

- SIGNAGE CONTRACTOR RESPONSIBLE FOR ALL CODE RELATED SIGNAGE SHALL COMPLY WITH THE CHICAGO BUILDING CODE. ALL SIGNS TO BE ADA COMPLIANT.
- PROJECT SHALL FULLY COMPLY WITH ICC-ANSI 117.1-2009 FOR TECHNICAL REQUIREMENTS.
- PERMANENT ROOM SIGNAGE SHALL HAVE RAISED LETTERS AND NUMERALS 1/32" IN RELIEF AND 5/8" MINIMUM IN HEIGHT WITH 70% CONTRAST BETWEEN IMAGE/BACKGROUND. PERMANENT ROOM SIGNAGE TO BE ACCOMPANIED BY GRADE 2 BRAILLE.
- ALL INTERIOR PLAQUES TO BE 1/8" THICK MOLDED PHOTOPOLYMER UNLESS OTHERWISE NOTED. COLOR TO BE SELECTED BY ARCHITECT.
- NAME ON SIGN TO MATCH ROOM NAME AS INDICATED ON FLOOR PLANS, UNLESS NOTED OTHERWISE. COPY ON SIGNS SHOWN ON THIS SHEETS IS FOR REFERENCE ONLY.
- SIGNAGE CONTRACTOR IS RESPONSIBLE FOR TYPE SETTING ALL SIGNS, INCLUDING LABEL SUPPLIER TO VERIFY ALL QUANTITIES OF SIGNS AND REVIEW ALL INSTALLATION LOCATIONS WITH PBC, ARCHITECT, AND REGIONAL LIBRARIAN PRIOR TO FABRICATION.
- ROOM SIGNS SHALL BE WALL MOUNTED WITH DOUBLE FACE TAPE ON THE EXTERIOR OR CORRIDOR SIDE OF DOORS ENTERING ROOMS ON THE LATCH SIDE OF A SINGLE DOOR, RIGHT SIDE OF A DOUBLE DOOR, DIRECTLY ADJACENT TO OPENING. CLOSEST AVAILABLE WALL FOR SETTING SIGNS SHALL BE MOUNTED 9" FROM LEADING EDGE OF DOOR FRAME. TYPICAL REFER TO LOCAL JURISDICTIONAL CODES FOR ADDITIONAL REQUIREMENTS. ANY CONFLICTS TO BE BROUGHT TO PBC & ARCHITECT'S ATTENTION.
- SUBSTITUTION OF ANY MATERIALS REQUIRED WRITTEN APPROVAL OF PBC & ARCHITECT PRIOR TO BIDDING.
- BLANK BACK UP IS REQUIRED TO BE PLACED ON OPPOSITE SIDE OF GLASS EXACTLY BEHIND SIGN BEING INSTALLED. PROVIDE SAME SIZE FULL FINISH BACK PANEL ON OTHERSIDE OF GLASS AS SIGN BEING INSTALLED.

DOB STAMP APPROVAL

CHICAGO PUBLIC LIBRARY

SEAL / DATE 12/5/19

Legler Regional Library Renovation
115 S. Pulaski Road
Chicago, IL 60624
CHICAGO PUBLIC LIBRARY
CITY OF CHICAGO, MAYOR LORI LIGHTFOOT

Architect of Record:
RATIO

30 West Monroe Street, Suite 500
Chicago, Illinois 60603
312-465-2359
www.ratiodesign.com

- TERRA Engineering Ltd.**
225 W. Ohio Street, 4th Floor, Chicago, IL 60654
(312) 467-0123
Civil Engineers of Record
- Steam-Joglekar, Ltd.**
223 W. Jackson Blvd # 1110, Chicago, IL 60606
(312) 461-1600
Structural Engineers of Record
- Brush Architects, LLC**
620 N. Dearborn Ave. Chicago, IL 60610
(312) 925-3070
Facade Consultant
- RCL Engineering Group**
620 N. Dearborn Ave. Chicago, IL 60610
(847) 955-3366
Roofing Consultant
- db | HMS**
203 W. Erie St #510, Chicago, IL 60654
(312) 915-0577
MEFP Engineers of Record
- Gwen Grossman Lighting Design**
639 W. Jackson St. Chicago, IL 60654
(312) 877-5125
Lighting Design Consultant
- Lerch Bates Inc.**
216 S. Jefferson St., Suite L12, Chicago, IL 60661
(312) 332-6444
Elevator Consultant
- Carnow, Conibear & Assoc., Ltd.**
600 West Van Buren, Suite 500, Chicago, IL 60607
(312) 762-4486
Environmental Consultant

Issue No	Description	Date
1	ISSUE FOR BID	11/13/19
2	ADDENDUM #2	11/27/19
3	ADDENDUM #3	12/5/19

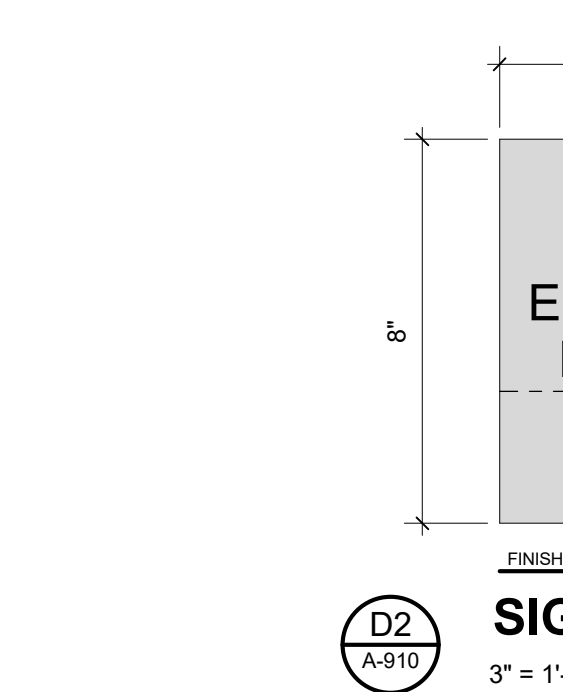
PBC Project Name: Legler Regional Library
PBC Contract No: C1597
PBC Project No.: 08310

SIGNAGE DETAILS

Warning: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.

Sheet

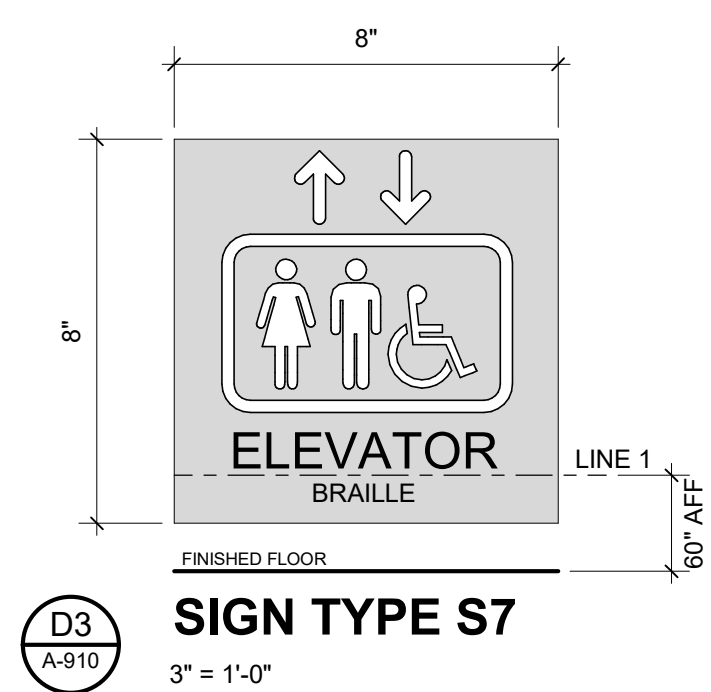
A-910



SIGN TYPE S6
3\"/>

- SIGN S6 SPECIFICATIONS:**
- PANEL: 8"x8" PHOTOPOLYMER RAISED COPY AND GRADE 2 BRAILLE
 - CHARACTERS: HELVETICA STANDARD
 - COLOR: PANTONE SILVER 877
 - COPY: PANTONE BLACK 6
 - INSTALLATION: 1/16" THICK BLACK NEOPRENE FOAM TAPE AND SILICONE ADHESIVE AS REQUIRED.

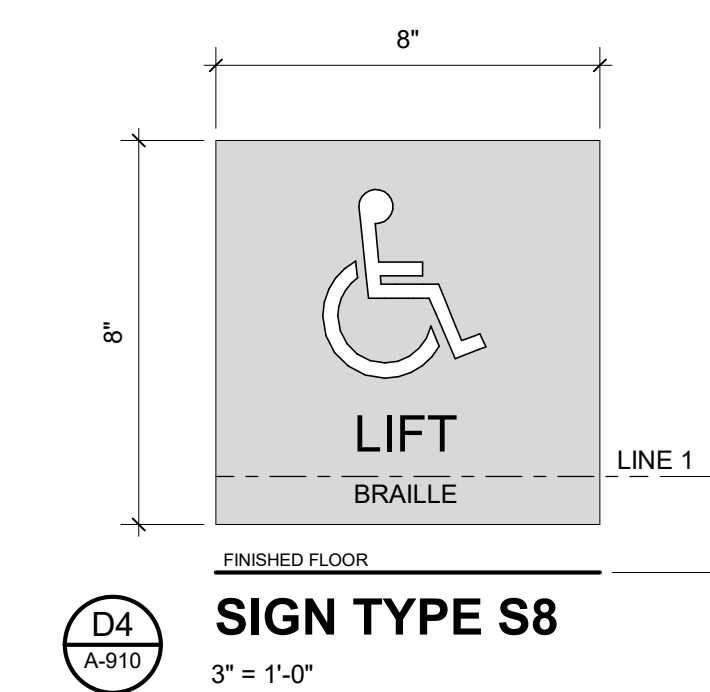
NOTES: ALL MATERIALS IN COMPLIANCE WITH ADA-ABA GUIDELINES AND UFAS 504 REQUIREMENTS.



SIGN TYPE S7
3\"/>

- SIGN S7 SPECIFICATIONS:**
- PANEL: 8"x8" PHOTOPOLYMER RAISED COPY AND GRADE 2 BRAILLE
 - CHARACTERS: HELVETICA STANDARD
 - COLOR: PANTONE SILVER 877
 - COPY: PANTONE BLACK 6
 - INSTALLATION: 1/16" THICK BLACK NEOPRENE FOAM TAPE AND SILICONE ADHESIVE AS REQUIRED.

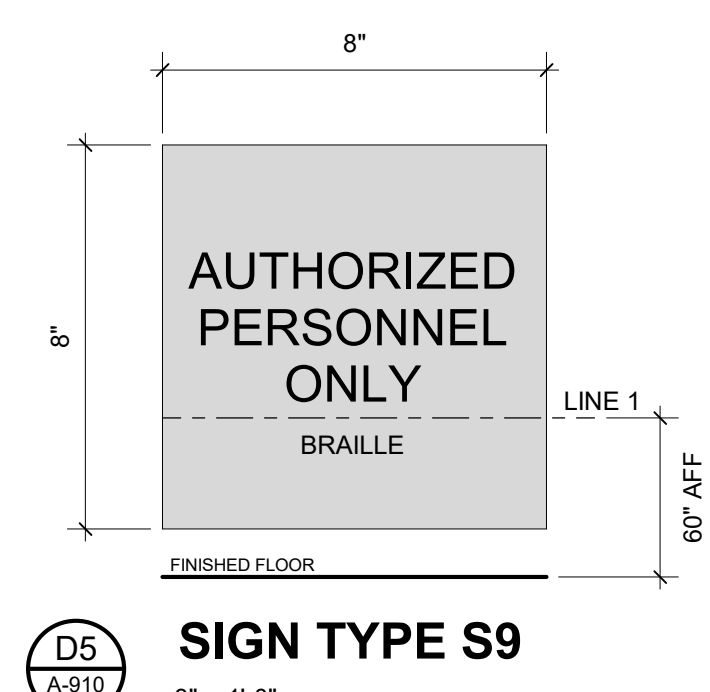
NOTES: ALL MATERIALS IN COMPLIANCE WITH ADA-ABA GUIDELINES AND UFAS 504 REQUIREMENTS.



SIGN TYPE S8
3\"/>

- SIGN S8 SPECIFICATIONS:**
- PANEL: 8"x8" PHOTOPOLYMER RAISED COPY AND GRADE 2 BRAILLE
 - CHARACTERS: HELVETICA STANDARD
 - COLOR: PANTONE SILVER 877
 - COPY: PANTONE BLACK 6
 - INSTALLATION: 1/16" THICK BLACK NEOPRENE FOAM TAPE AND SILICONE ADHESIVE AS REQUIRED.

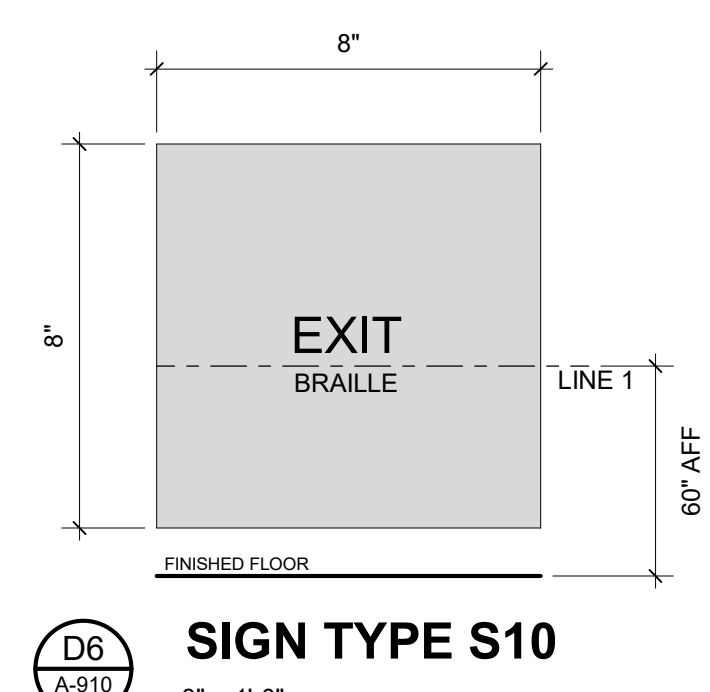
NOTES: ALL MATERIALS IN COMPLIANCE WITH ADA-ABA GUIDELINES AND UFAS 504 REQUIREMENTS.



SIGN TYPE S9
3\"/>

- SIGN S9 SPECIFICATIONS:**
- PANEL: 8"x8" PHOTOPOLYMER RAISED COPY AND GRADE 2 BRAILLE
 - CHARACTERS: HELVETICA STANDARD
 - COLOR: PANTONE SILVER 877
 - COPY: PANTONE BLACK 6
 - INSTALLATION: 1/16" THICK BLACK NEOPRENE FOAM TAPE AND SILICONE ADHESIVE AS REQUIRED.

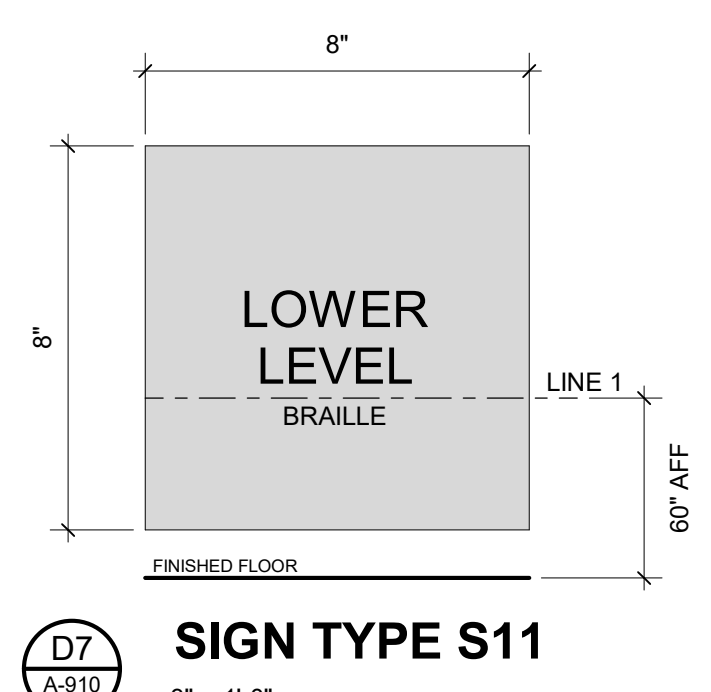
NOTES: ALL MATERIALS IN COMPLIANCE WITH ADA-ABA GUIDELINES AND UFAS 504 REQUIREMENTS.



SIGN TYPE S10
3\"/>

- SIGN S10 SPECIFICATIONS:**
- PANEL: 8"x8" PHOTOPOLYMER RAISED COPY AND GRADE 2 BRAILLE
 - CHARACTERS: HELVETICA STANDARD
 - COLOR: PANTONE SILVER 877
 - COPY: PANTONE BLACK 6
 - INSTALLATION: 1/16" THICK BLACK NEOPRENE FOAM TAPE AND SILICONE ADHESIVE AS REQUIRED.

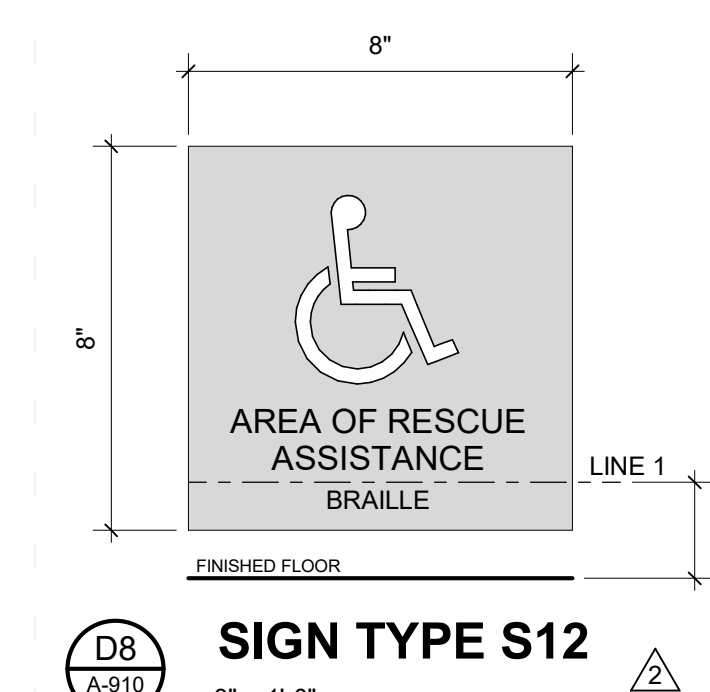
NOTES: ALL MATERIALS IN COMPLIANCE WITH ADA-ABA GUIDELINES AND UFAS 504 REQUIREMENTS.



SIGN TYPE S11
3\"/>

- SIGN S11 SPECIFICATIONS:**
- PANEL: 8"x8" PHOTOPOLYMER RAISED COPY AND GRADE 2 BRAILLE
 - CHARACTERS: HELVETICA STANDARD
 - COLOR: PANTONE SILVER 877
 - COPY: PANTONE BLACK 6
 - INSTALLATION: 1/16" THICK BLACK NEOPRENE FOAM TAPE AND SILICONE ADHESIVE AS REQUIRED.

NOTES: ALL MATERIALS IN COMPLIANCE WITH ADA-ABA GUIDELINES AND UFAS 504 REQUIREMENTS.



SIGN TYPE S12
3\"/>

- SIGN S12 SPECIFICATIONS:**
- PANEL: 8"x8" PHOTOPOLYMER RAISED COPY AND GRADE 2 BRAILLE
 - CHARACTERS: HELVETICA STANDARD
 - COLOR: PANTONE SILVER 877
 - COPY: PANTONE BLACK 6
 - INSTALLATION: 1/16" THICK BLACK NEOPRENE FOAM TAPE AND SILICONE ADHESIVE AS REQUIRED.

NOTES: ALL MATERIALS IN COMPLIANCE WITH ADA-ABA GUIDELINES AND UFAS 504 REQUIREMENTS.

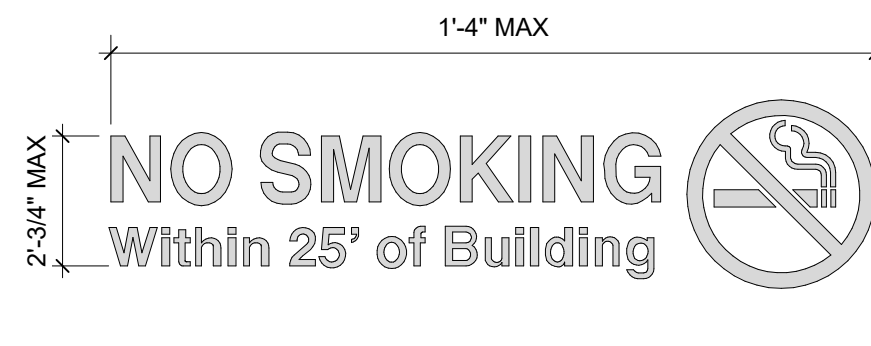


SIGN TYPE S15
3\"/>

- SIGN S15 SPECIFICATIONS:**
- CONSTRUCTION: ELECTRONICALLY CUT VINYL
 - SIGNAGE WIDTH IS 1-4" MAX
 - CHARACTERS: BERTHOLD AKZIDENZ GROTESK MEDIUM
 - COLOR: PANTONE BLACK 6
 - COPY: AS SHOWN
 - INSTALLATION: DIRECTLY ADHERED TO SOLID SURFACE MATERIAL VIA TRANSFER TAPE.

NOTES: ALL MATERIALS IN COMPLIANCE WITH ADA-ABA GUIDELINES AND UFAS 504 REQUIREMENTS.

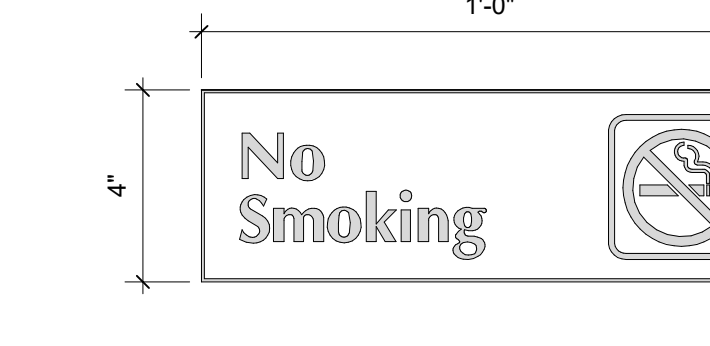
DESIGNATED SIGN S15 LOCATIONS:
1) CIRCULATION DESK (ON SSM-1 VERTICAL SURFACE ABOVE BOOK DROP BOX)



SIGN TYPE S16
3\"/>

- SIGN S16 SPECIFICATIONS:**
- CONSTRUCTION: ELECTRONICALLY CUT VINYL
 - CHARACTERS: HELVETICA BOLD AND HELVETICA REGULAR
 - COLOR: WHITE
 - COPY: AS SHOWN
 - INSTALLATION: DIRECTLY ADHERED TO GLASS SURFACE VIA TRANSFER TAPE.

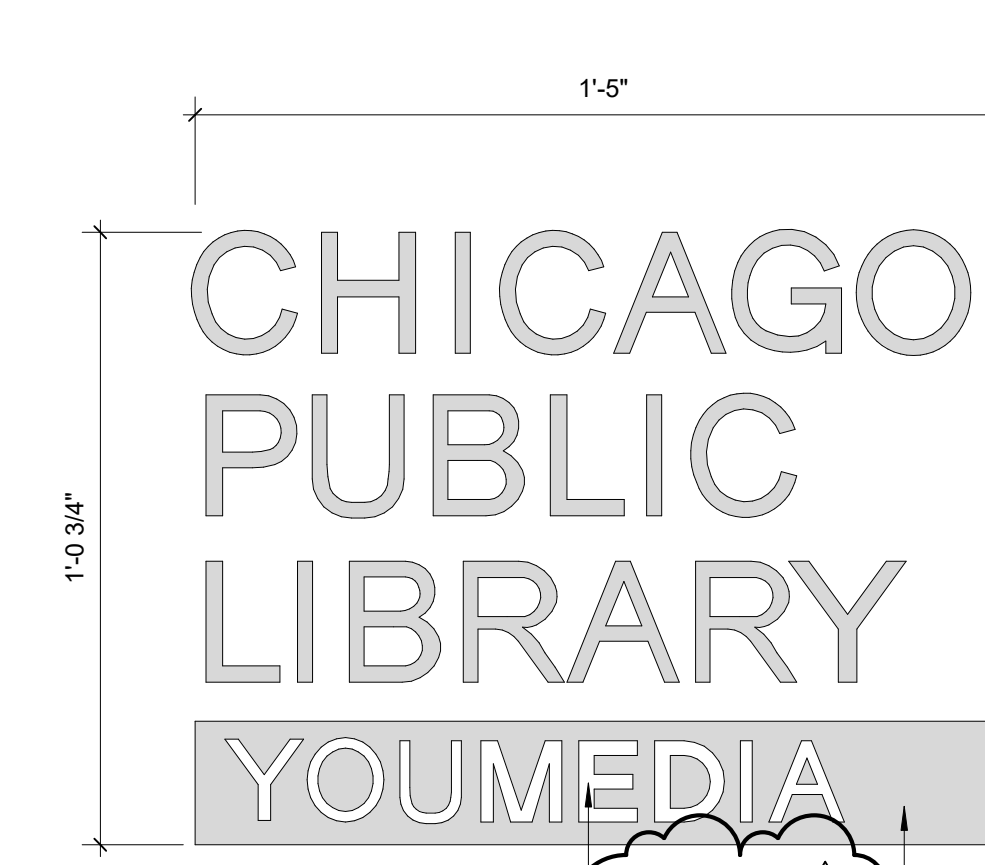
NOTES: ALL MATERIALS IN COMPLIANCE WITH ADA-ABA GUIDELINES AND UFAS 504 REQUIREMENTS.



SIGN TYPE S17
3\"/>

- SIGN S17 SPECIFICATIONS:**
- ENGRAVED SIGN IS 4"x12"
 - 60MM THICK WEATHER RESISTANT PLASTIC
 - SIGN HAS WHITE LETTERS ON A CONTRASTING (BLACK) BACKGROUND
 - INSTALLATION: FOAM TAPE AND SILICONE ADHESIVE AS REQUIRED.

NOTES: ALL MATERIALS IN COMPLIANCE WITH ADA-ABA GUIDELINES AND UFAS 504 REQUIREMENTS.

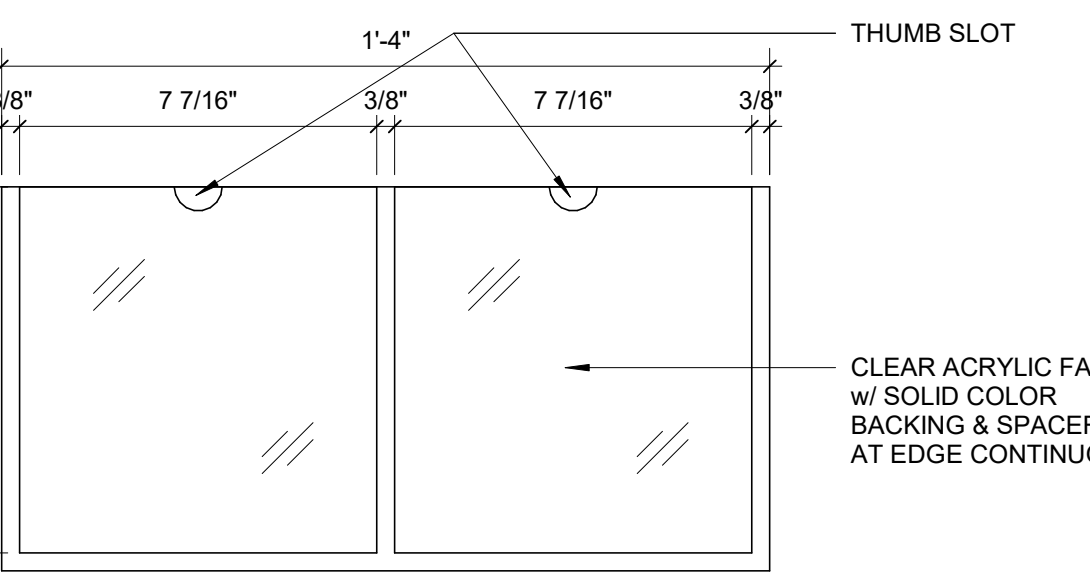


SIGN TYPE S18
3\"/>

- SIGN S18 SPECIFICATIONS:**
- SIGNAGE HEIGHT IS 1-0" MAX
 - CHARACTERS: BERTHOLD AKZIDENZ GROTESK MEDIUM
 - COLOR: PANTONE BLACK 6
 - BACKGROUND COLOR FOR ROOM NAME TO MATCH CPL COLOR CODE
 - CONSTRUCTION: ELECTRONICALLY CUT VINYL
 - INSTALLATION: DIRECTLY ADHERED TO GLASS SURFACE VIA TRANSFER TAPE

NOTES: ALL MATERIALS IN COMPLIANCE WITH ADA-ABA GUIDELINES AND UFAS 504 REQUIREMENTS.

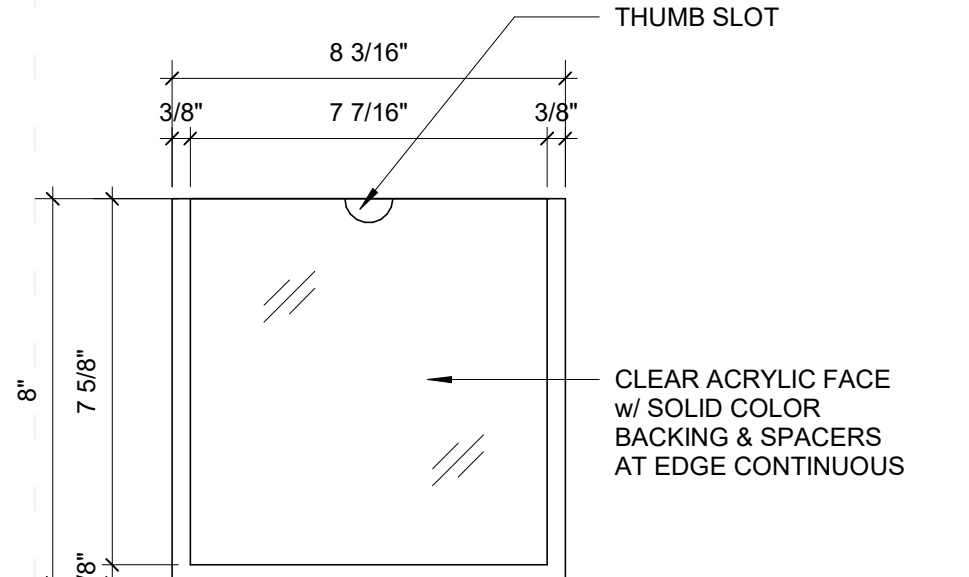
RM NO	ROOM
107	ADULT/ REFERENCE READING ROOM
119	CHILDREN'S READING ROOM
206	YOU MEDIA
209	MAKER LAB
227	COMPUTER LAB



SIGN TYPE S20
3\"/>

- SIGN S20 SPECIFICATIONS:**
- CONSTRUCTION: ELECTRONICALLY CUT VINYL
 - SIGNAGE WIDTH IS 1-4" MAX
 - CHARACTERS: BERTHOLD AKZIDENZ GROTESK MEDIUM
 - COLOR: PANTONE BLACK 6
 - BACKGROUND COLOR FOR ROOM NAME TO MATCH CPL COLOR CODE
 - CONSTRUCTION: ELECTRONICALLY CUT VINYL
 - INSTALLATION: DIRECTLY ADHERED TO GLASS SURFACE VIA TRANSFER TAPE

NOTES: ALL MATERIALS IN COMPLIANCE WITH ADA-ABA GUIDELINES AND UFAS 504 REQUIREMENTS.

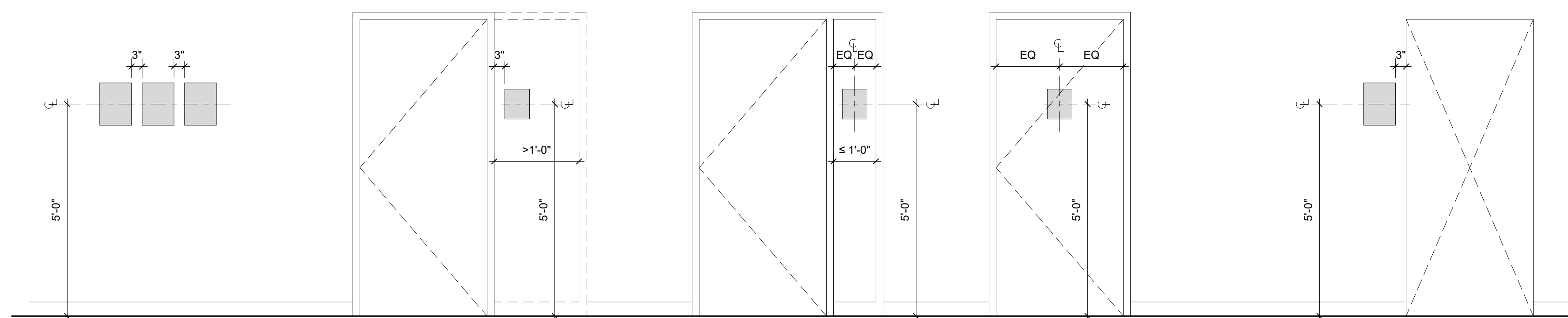


SIGN TYPE S21
3\"/>

- SIGN S21 SPECIFICATIONS:**
- CONSTRUCTION: ELECTRONICALLY CUT VINYL
 - SIGNAGE WIDTH IS 1-4" MAX
 - CHARACTERS: BERTHOLD AKZIDENZ GROTESK MEDIUM
 - COLOR: PANTONE BLACK 6
 - BACKGROUND COLOR FOR ROOM NAME TO MATCH CPL COLOR CODE
 - CONSTRUCTION: ELECTRONICALLY CUT VINYL
 - INSTALLATION: DIRECTLY ADHERED TO GLASS SURFACE VIA TRANSFER TAPE

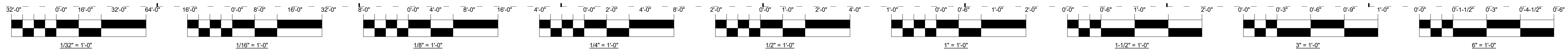
NOTES: ALL MATERIALS IN COMPLIANCE WITH ADA-ABA GUIDELINES AND UFAS 504 REQUIREMENTS.

RM NO	ROOM	ARTWORK COMMENTS
103	LOBBY	A Carved Wood Sculpture by Elizabeth Catlett
108	CONFERENCE ROOM	"Wideneress, Winter River Scene" by R. Fayerweather Babcock.
201	LOBBY	"Wonder And Knowledge" by Kerry James Marshall

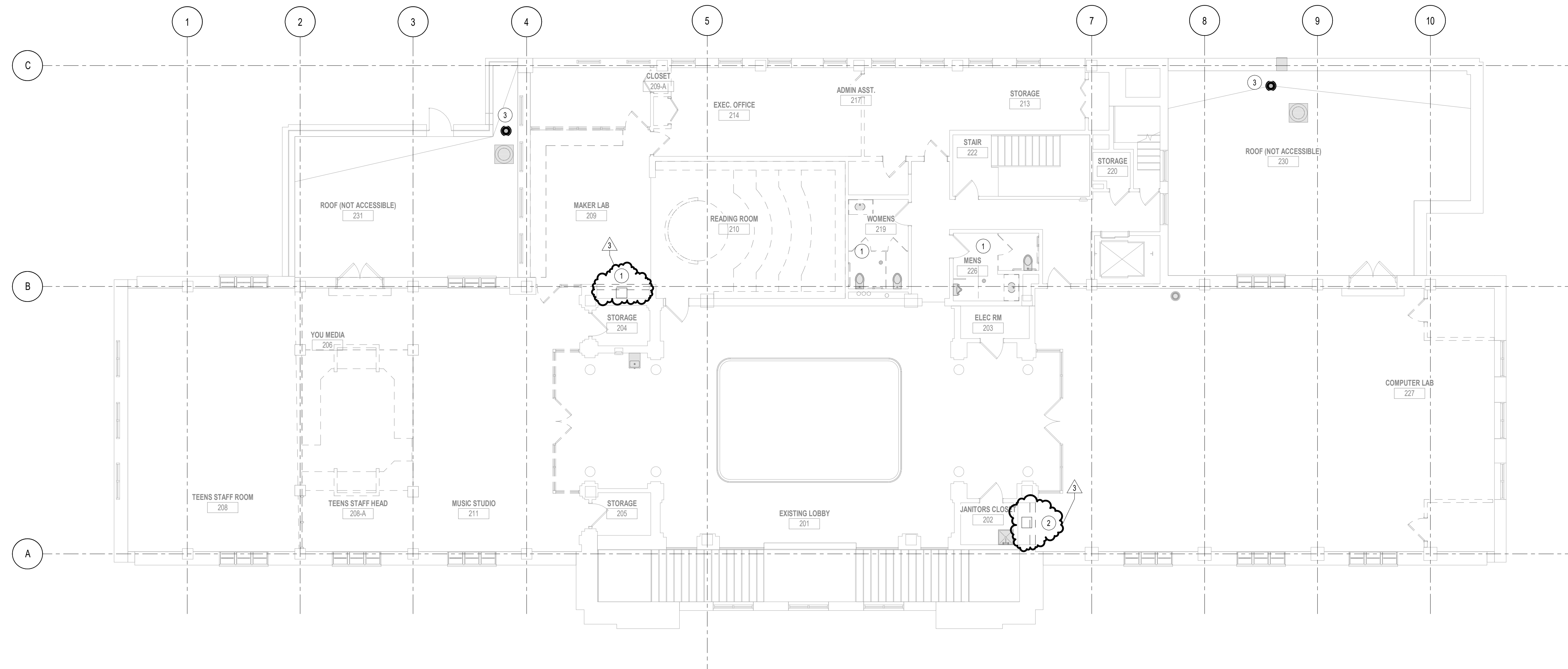


SIGNAGE MOUNTING HEIGHTS

1/2\"/>



- PLUMBING NOTES**
- 1 DEMOLISH EXISTING PLUMBING FIXTURES AND RELATED APPURTENANCES. PREPARE EXISTING PIPING FOR FUTURE CONNECTION.
 - 2 DEMOLISH EXISTING ALCOVE SINK, RELATED APPURTENANCES, DOMESTIC WATER PIPING AND WASTE PIPING BACK TO MAINS AND CAP.
 - 3 DEMOLISH EXISTING ROOF DRAIN. PREPARE ASSOCIATED STORM DRAIN PIPING FOR FUTURE CONNECTION.



1 SECOND FLOOR - PLUMBING DEMO PLAN
 1/8" = 1'-0"

DOB STAMP APPROVAL

CHICAGO PUBLIC LIBRARY
 CHICAGO PUBLIC LIBRARY
 CITY OF CHICAGO, MAYOR RAHM ELMANUEL

SEAL | DATE 12/5/19

Legler Regional Library Renovation
 115 S. Pulaski Road
 Chicago, IL 60624
 CHICAGO PUBLIC LIBRARY
 CITY OF CHICAGO, MAYOR RAHM ELMANUEL

Architect of Record:
RATIO
COPYRIGHT NOTICE: THIS ARCHITECTURAL AND ENGINEERING DRAWING IS GIVEN IN CONFIDENCE AND SHALL BE USED ONLY PURSUANT TO THE AGREEMENT WITH RATIO. NO OTHER USE, DISSEMINATION OR REPRODUCTION MAY BE MADE WITHOUT THE WRITTEN CONSENT OF RATIO. ALL COMMON LAW RIGHTS OF COPYRIGHT AND OTHERWISE ARE HEREBY SPECIFICALLY RESERVED.

ADDRESS: 30 West Monroe Street, Suite 500
 Chicago, Illinois 60603
 PHONE: 312-465-2359
 FAX:
 WEB: www.ratiodesign.com

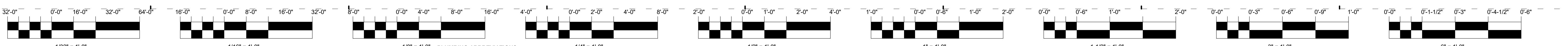
- TERRA Engineering Ltd.**
 225 W. Ohio Street, 4th Floor, Chicago, IL 60654
 (312) 467-0123
 Civil Engineers of Record
- Steam-Joglekar, Ltd.**
 223 W. Jackson Blvd # 1110, Chicago, IL 60606
 (312) 461-1600
 Structural Engineers of Record
- db | HMS**
 303 W. Erie St #510, Chicago, IL 60654
 (312) 915-0557
 MEPFP Engineers of Record
- Lerch Bates Inc.**
 216 S. Jefferson St, Suite LL2, Chicago, IL 60661
 (312) 332-5444
 Elevator Consultant
- Brush Architects, LLC**
 4200 N. Francisco Ave, Chicago, IL 60618
 (312) 925-3070
 Facade Consultant
- Gwen Grossman Lighting Design**
 52 W. Jackson Blvd, Chicago, IL 60654
 (312) 877-5125
 Lighting Design Consultant

Revisions

Mark	Description	Date
1	ISSUE FOR BID	11/13/19
3	ADDENDUM #3	12/5/19

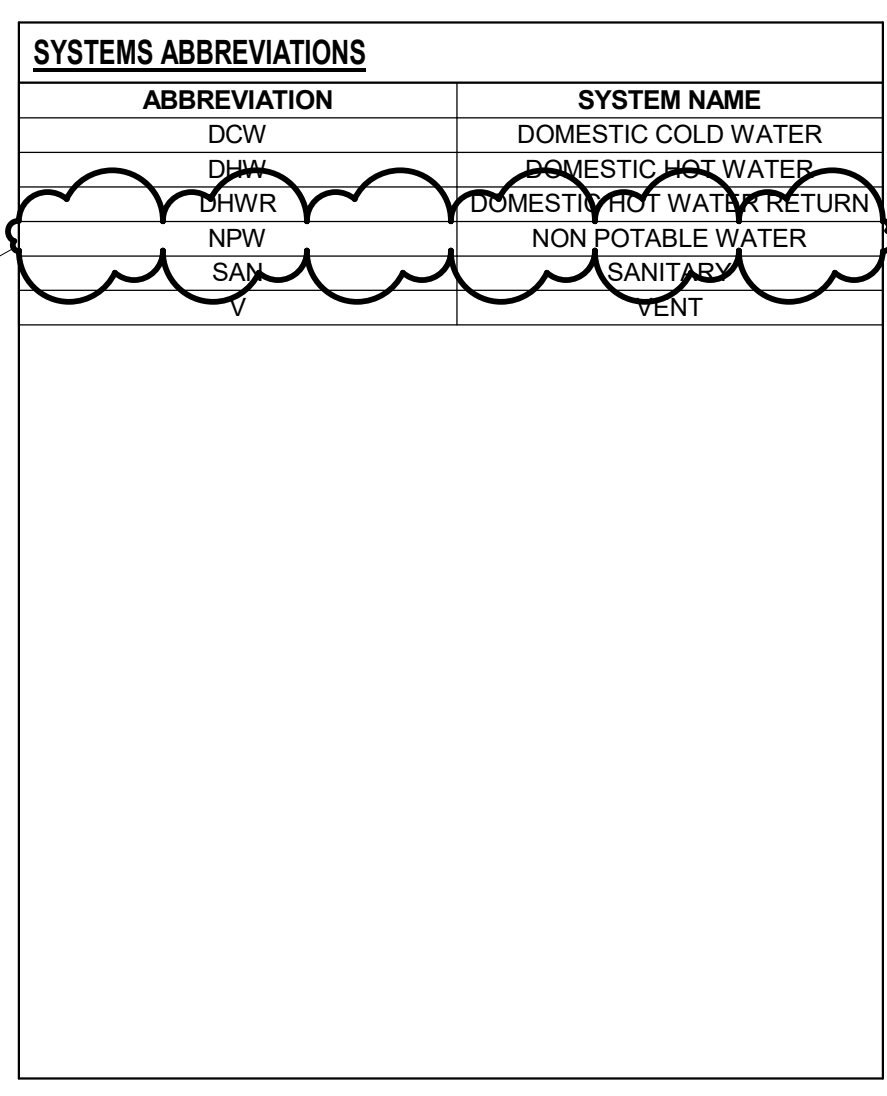
PBC Project Name: Legler Regional Library
 PBC Contract No.: C1597
 PBC Project No.: 08310
 Title: SECOND FLOOR - PLUMBING DEMOLITION PLAN

12/5/2019 11:16:19 AM



SYMBOLS LIST	SYMBOL	DESCRIPTION
		ANGLE GATE VALVE
		ALARM CHECK VALVE
		BALANCING COCK
		BALL VALVE / ISOLATION VALVE
		CHECK VALVE
		DETECTOR CHECK VALVE WITH BYPASS METER
		DRY PIPE VALVE
		ELBOW DOWN
		ELBOW UP
		FIRE ALARM BELL
		FIRE DEPARTMENT VALVE
		FIRE EXTINGUISHER RECESSED ON SURFACE
		FLOOR CLEAN OUT
		FLOW ARROW
		FLOW SWITCH
		GLOBE VALVE
		HOSE BIB
		INLINE BACK FLOW PREVENTER
		MIXING VALVE
		NON SPRINKLED AREA
		NEW CONNECTION

KEY NAME	COMMENT
ABFF	ABOVE FINISH FLOOR
AHLU	AIR HANDLING UNIT
ARCH	ARCHITECTURAL
BFP	BACKFLOW PREVENTER
BLD	BUILDING
BTM	BOTTOM OF PIPE
CD	CONDENSATE DRAIN
CFH	CUBIC FEET PER HOUR
CI	CAST IRON
CL	CENTER LINE
CLG	CEILING
CM	COFFEE MAKER
CO	CLEANOUT
CSW	COLD SOFT WATER
D	DRAIN
CSV	CHECK VALVE
DET	DETAIL
DFU	DRAINAGE FIXTURE UNITS
DIAM	DIAMETER
DN	DOWN
DT	FOUNDATION DRAIN TILE
DV	DRAIN VALVE
DWG	DRAWING
DWS	DOMESTIC WATER SERVICE
EC	ELECTRICAL CONTRACTOR
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR PUMP
EQUIP	EQUIPMENT
ETR	EXISTINGS TO REMAIN
EW	ELECTRIC WATER COOLER
EWI	ELECTRIC WATER HEATER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF	FINISH FLOOR ELEVATION
FPC	FIRE PROTECTION CONTRACTOR
FT	FEET
GF	GLYCOL FILL STATION
GPM	GALLON PER MINUTE
H	HUB DRAIN
ICW	INDUSTRIAL COLD WATER
KW	KILOWATT
LAV	LAVATORY
MAX	MAXIMUM
MB	MOP BASIN
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
NC	NORMALLY CLOSED
NFWH	NON FREEZE WALL HYDRANT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
P	PUMP
PC	PLUMBING CONTRACTOR
PCP	PUMP CONTROL PANEL
PG	PRESSURE GAUGE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
PVC	POLYVINYL CHLORIDE
PW	PRESSURIZED WASTE
REX	REMOVE EXISTING
RCP	RECIROCLATION PUMP
SAIN	SANITARY WASTE
SK	SINK
SP	SUMP PUMP
SPEC	SPECIFICATION
ST	STORM PUMP DISCHARGE TO MEET PRESSURIZED WASTE PIPING REQUIREMENTS
T&P	TEMPERATURE & PRESSURE RELIEF VALVE
TBD	TO BE DETERMINED
TDH	TOTAL DYNAMIC HEAD
TEMP OF T	TEMPERATURE
THK	THERMAL EXPANSION TANK
TMV	THERMOSTATIC MIXING VALVE
TP	TRAP PUMP
TPV	TYPICAL
UNP	UNLESS NOTED OTHERWISE
V	VENT
VTR	VENT THRU ROOF
W	WITH
WC	WATER CLOSET
WCO	WALL CLEANOUT
WCO	WARD CLEANOUT
WHA	WATER HAMMER ARRESTER
WS	WATER SOFTENER
°	DEGREE
°F	DEGREES FAHRENHEIT
ø	DIAMETER



GENERAL PLUMBING NOTES:
APPLICABLE TO ALL PLUMBING DRAWINGS

1. DEFINITIONS
A. "FURNISH" MEANS TO SUPPLY AND USUALLY REFERS TO DELIVERY OF AN ITEM OF EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION. EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION.
B. "INSTALL" MEANS TO SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER.
C. "PROVIDE" MEANS TO "FURNISH" AND "INSTALL".
D. "FUTURE," "BY OTHERS," REFER (DISCIPLINE) DIVISION AND SIMILAR EXPRESSIONS INDICATE WORK THAT MAY BE PERFORMED UNDER THE CONTRACT DOCUMENTS BUT, NOT NECESSARILY UNDER THE DISCIPLINE OR DIVISION ON WHICH THE OPERATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK WITH SUPPLIERS, SUBCONTRACTORS, EMPLOYEES, ETC. SHOULD CLARIFICATION OF ANY PORTION OF THE WORK BE REQUIRED, CONTACT THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BID.

2. CODES
A. THE WORK SHALL COMPLY WITH LATEST CHICAGO BUILDING CODE. THIS WILL INCLUDE, BUT IS NOT LIMITED TO, THE CURRENT CITY BUILDING CODE, AMENDMENTS, NFPA, ANSI, OSHA, AND ALL OTHER LOCAL OR MUNICIPAL, BUREAUS AND DEPARTMENTS WHICH HAVE AUTHORITY OVER THE PROJECT. ANYTHING IN THESE CONTRACT DOCUMENTS NOT WITHSTANDING, THIS SHALL NOT BE CONSTRUED AS WAIVING COMPLIANCE WITH ANY REQUIREMENTS OF THE PLANS AND SPECIFICATIONS WHICH MAY BE IN EXCESS OF ANY REQUIREMENTS OF THESE CODES.

3. INTERPRETATION OF THE DOCUMENTS
A. THE PLUMBING CONTRACTOR SHALL CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING THE MEASUREMENTS AND CONDITIONS UNDER WHICH CONSTRUCTION IS TO BE IMPLEMENTED. FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS AND/OR SPECIFICATIONS, THE DISPUTED ISSUE SHALL BE REFERRED TO THE ENGINEER BEFORE ANY WORK IS EXECUTED. THE PLUMBING CONTRACTOR SHALL NOT TAKE PROPOSAL, ANY EXCEPTIONS NECESSARY TO MAKE THIS WORK A COMPLETE AND READY-TO-USE INSTALLATION. IF NOT SO STATED IN THE PLUMBING CONTRACTORS PROPOSAL, ANY SUCH WORK WILL NOT BE CONSIDERED ADDITIONAL.
B. THE PLUMBING CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL EXISTING AND NEW REQUIRED WORK AND EQUIPMENT WITH THAT OF THE OTHER TRADES. WHERE THERE ARE POTENTIAL CONFLICTS, THE PLUMBING CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL FIELD CONDITIONS. ALL CHANGES TO EXISTING OR NEW PLUMBING EQUIPMENT, PIPES, FITTINGS, ETC. SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN THE COMPLETION DATE OF THE PROJECT.
C. REFER TO ARCHITECTURAL/MECHANICAL DRAWINGS FOR PLUMBING ELEVATIONS AND DETAILS INDICATING THE LOCATIONS OF CEILING ELEMENTS (E.G. LIGHTS, SPRINKLERS, DIFFUSERS, ETC.) AND WALL ELEMENTS. CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS.
D. THE PLUMBING CONTRACTOR SHALL SUBMIT SKETCHES TO ARCHITECT FOR APPROVAL, PRIOR TO MAKING ANY BEAM PENETRATIONS.
E. COORDINATE & VERIFY WITH GENERAL CONTRACTOR AND RELATED DISCIPLINES PRIOR TO START OF ANY WORK. ALL WORK TO BE PERFORMED INSIDE OF THE 5'-0" BUILDING PERIMETER LIMITS OF CONSTRUCTION AND COORDINATED WITH OTHER TRADES TO MATCH WORK OUTSIDE.
F. ALL FLOOR MOUNTED EQUIPMENT NOT PROVIDED ON A SKID IS TO BE INSTALLED ON 4" THICK CONCRETE HOUSEKEEPING PAD.

G. THE PLUMBING CONTRACTOR SHALL GIVE ALL LOCATIONS AND DIMENSIONS OF ALL REQUIRED ACCESS PANELS TO THE ARCHITECT PRIOR TO START OF CONSTRUCTION AND SHALL SUBMIT TO THE ARCHITECT/ENGINEER FOR APPROVAL. ALL FINISH REQUIREMENTS PRIOR TO INSTALLATION. THE PLUMBING CONTRACTOR SHALL FURNISH THE ACCESS PANELS. THE GENERAL CONTRACTOR SHALL INSTALL THE ACCESS PANELS.

H. ALL PIPING VALVES AND DEVICES SHALL BE INSTALLED SO AS NOT TO OBSTRUCT ANY PORTION OF A WINDOW, DOORWAY, STAIRWAY OR PASSAGEWAY OR ANY PIECE OF MECHANICAL OR ELECTRICAL EQUIPMENT.

5. SITE EXAMINATION
A. THE PLUMBING CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, EXAMINE THE PREMISES, AND MAKE A THOROUGH SURVEY OF THE CONDITIONS UNDER WHICH CONSTRUCTION WILL BE IMPLEMENTED. THE PLUMBING CONTRACTOR SHALL NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. FAILURE TO DO SO SHALL NOT RELIEVE THE PLUMBING CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. ANY LATER CLAIMS FOR DAMAGE TO MATERIALS REQUIRED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.
B. WATER PRESSURE AND SUPPLY INFORMATION: FIELD VERIFY ALL PRESSURES AND CAPACITIES. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR FLOW TEST INFORMATION.
C. CATCH BASINS AND MANHOLES ARE THE RESPONSIBILITY OF THE SITE CONTRACTOR.

6. PERMITS
A. THE PLUMBING CONTRACTOR SHALL SECURE, OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, TAXES, LICENSES, AND FEES TO ALL GOVERNMENT AGENCIES REQUIRED FOR THE EXECUTION AND COMPLETION OF THE PLUMBING WORK. SCHEDULING OF ALL REQUIRED INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL PREPARE AND SUBMIT ALL SHOP DRAWINGS AS REQUIRED TO THE GOVERNMENTAL AGENCIES AND UTILITY COMPANIES FOR THEIR APPROVAL.

7. SAFETY
A. THE PLUMBING CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE CLIENTS EMPLOYEES, BUILDING EMPLOYEES AND GUESTS AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CABLE, EQUIPMENT, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK.
B. ALL PLUMBING ELEMENTS THAT ARE IN CONTACT WITH POTABLE / DRINKING WATER SHALL BE NSF 61 CERTIFIED.

8. CONTRACTORS DRAWING REVIEW
A. ALL CONTRACTORS/ORDERERS SHALL HAVE RECEIVED A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR REVIEW AND REFERENCE TO WORK INDICATED. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FINISHED CEILING HEIGHTS, AND LOCATION OF WALL, ROOF, AND FLOOR OPENINGS. PIPE LOCATE SERVICES SHALL BE REQUESTED AND COMPLETED BEFORE DISTURBANCE OF ANY EXISTING GRADE OR ON-GRADE CONSTRUCTION, SLAB DEMOLITION, OR OTHER ACTIVITIES THAT MAY IMPACT BURIED UTILITIES OR COMMUNICATION CONDUITS.
B. THE PLUMBING CONTRACTOR SHALL CONFIRM THAT PIPE LOCATE SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONFLICTS EXIST BEFORE EXISTING GRADE IS EXCAVATED OR EXISTING FLOORING DEMOLISHED, REGARDLESS OF THE LOCATION ON THE PROPERTY. THIS SHALL BE REVIEWED WITH THE OWNER'S PROJECT REPRESENTATIVE.

9. STATEMENT OF WORK
A. THE PLUMBING CONTRACTOR SHALL PROVIDE THE COMPLETE PLUMBING INSTALLATION OF WORK AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
B. PRIOR TO COMMENCEMENT OF WORK, THE PLUMBING CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL, ANY SEQUENCE OF WORK (MOPS (METHOD OF PROCEDURE) AND/OR COORDINATION SHOP DRAWINGS FOR THE INTENDED WORK.
C. THE PLUMBING CONTRACTOR SHALL REMOVE ALL EXISTING EQUIPMENT AND MATERIALS PERTAINING TO THEIR CONTRACT AS SPECIFIED OR AS REQUIRED WEATHER SHOWN ON THE DRAWINGS OR NOT, TO PREPARE FOR THE NEW WORK.
D. THE PLUMBING CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION. FAILURE TO DO SO BEFORE CONDUCTING WORK WILL NOT CONSTITUTE LACK OF RESPONSIBILITY ON THE PART OF THE CONTRACTOR, AND ANY LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.
E. DISRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER, AND SHALL BE PERFORMED AT A TIME AND MANNER SO AS TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE.

10. WORK PERFORMANCE REQUIREMENTS
A. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL CODES. THESE CODES SHALL BE FOLLOWED AS A MINIMUM PROVIDING HIGHER GRADES OF MATERIAL AND WORKMANSHIP WHERE REQUIRED BY THESE DOCUMENTS. PROVIDE ALL TESTS REQUIRED BY CODE.
B. ANY PENETRATIONS OR OPENINGS IN FIRE-RATED PARTITIONS (WALLS OR FLOORS) SHALL BE CLOSED AT THE END OF EACH WORK DAY, OR WHENEVER IT IS ANTICIPATED THAT NO FURTHER WORK WILL OCCUR IN THAT AREA DURING THE DAY. THIS INCLUDES ALL TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING TEMPORARY OPENINGS.
C. ALL PIPING PASSING THRU FLOORS, WALLS, CEILINGS OR ROOF SHALL HAVE A DUCTILE IRON PIPE SLEEVE INSTALLED AROUND THE PIPE AND/OR INSULATION. SLEEVES THROUGH FOUNDATION WALLS SHALL BE AT LEAST 2 PIPE SIZES LARGER THAN THE SERVICE PIPE.
D. PROVIDE AN ESCUTCHEON PLATE AROUND PENETRATIONS EXPOSED TO VIEW. ESCUTCHEON PLATES SHALL BE LARGE ENOUGH TO COVER THE ENTIRE HOLE. ALL PENETRATIONS SHALL BE SEALED TO MAINTAIN THE WALL/FLOOR/ROOF FIRE & INSULATION RATINGS.
E. ALL TEMPORARY WALL AND FLOOR OPENINGS SHALL BE PROTECTED AND MARKED AT ALL TIMES.
F. PAINTING SHALL BE SCHEDULED SUCH THAT DRYING TIME OCCURS DURING NON-WORKING HOURS FOR OPERATIONS PERSONNEL COMFORT.
G. NO WELDING SHALL TAKE PLACE INSIDE OF OPERATING FACILITY WITHOUT THE WRITTEN AUTHORIZATION OF THE OWNER'S PROJECT REPRESENTATIVE. WELDING SHALL NOT TAKE PLACE WITHIN 5 FEET OF ANY TELECOM EQUIPMENT RACK WITHOUT ADEQUATE PROTECTIVE MEASURES, AS DEEMED APPROPRIATE BY THE OWNER'S PROJECT REPRESENTATIVE.
H. TRENCHING, EXCAVATION, AND BACKFILL OPERATIONS SHALL BE IN ACCORDANCE WITH ARTICLE 3, SECTION 306 OF THE CHICAGO BUILDING CODE.

11. CUTTING AND PATCHING
A. ALL CUTTING, DRILLING AND PATCHING OF MASONRY, STEEL, OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THE PLUMBING CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTIONS OF THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVE. PATCH ALL DISTURBED WALLS, CEILINGS AND FLOORS TO MATCH ADJACENT SURFACES AS NECESSARY.

12. FIRESTOPPING
A. ALL PENETRATIONS IN WALLS, FLOORS, OR CEILINGS SHALL BE SUITABLY CLOSED UP AND SEALED WITH A FIRE STOPPING COMPOUND LISTED IN THE MOST RECENT FACTORY MUTUAL RESEARCH CORPORATION (FMRC) APPROVAL GUIDE. ONLY PRODUCTS MANUFACTURED BY HILL SHALL BE PREFERRED (NO SUBSTITUTIONS).
B. PIPES WHICH PASS THROUGH EXISTING AND NEW FIRE RESISTIVE BARRIERS, INCLUDING FLOOR SLABS AND WALLS, SHALL BE FIRE SEALED TO MAINTAIN THE INTEGRITY OF THE FIRE RESISTIVE BARRIER. ALL EXPOSED PIPES PASSING THROUGH A WALL, CEILING OR FLOOR SHALL HAVE CHROME ESCUTCHEON PLATES.

13. TEMPORARY PROVISIONS
A. THE PLUMBING CONTRACTOR SHALL PROVIDE TEMPORARY WATER SUPPLY MEANS DURING CONSTRUCTION. THE PLUMBING CONTRACTOR SHALL COORDINATE TEMPORARY POWER PROVISIONS WITH THE ELECTRICAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL PERFORM ALL COORDINATION WITH THE OWNER AND/OR LANDLORD AND UTILITY COMPANY.
B. THE PLUMBING CONTRACTOR SHALL PROVIDE TEMPORARY DRAINAGE PROVISIONS BETWEEN THE START OF CONSTRUCTION UNTIL SUCH TIME THAT THE BUILDING CAN DRAIN, AS INDICATED IN THE CONSTRUCTION DOCUMENTS. PLUMBING CONTRACTOR SHALL COORDINATE ALL TEMPORARY POWER PROVISIONS WITH THE ELECTRICAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL PERFORM ALL COORDINATION WITH THE OWNER AND/OR LANDLORD AND UTILITY COMPANY.

14. EQUIPMENT
A. THE PLUMBING CONTRACTOR SHALL PROVIDE PROPER WORKING CLEARANCE IN FRONT AND AROUND EQUIPMENT PER THE MANUFACTURERS RECOMMENDATIONS.

15. DOMESTIC WATER
A. ALL WATER SUPPLIED TO EQUIPMENT BY OTHER TRADES SHALL HAVE AN ISOLATION VALVE AND AN APPROVED BACKFLOW PREVENTER WHICH SHALL BE SUPPLIED AND INSTALLED BY THE PLUMBING CONTRACTOR.
B. ALL DOMESTIC WATER SUPPLIES TO FIXTURES AND EQUIPMENT SHALL HAVE AIR CHAMBERS OR MANUFACTURED WATER HAMMER ARRESTORS.
C. ALL WATER SUPPLY AND RETURN PIPING SHALL BE INSULATED, INCLUDING ALL PIPING ABOVE CEILINGS, IN PIPE CHASES, AND IN WALLS. REFER TO SPECIFICATIONS FOR TYPE AND THICKNESS OF INSULATION. PROVIDE VALVE HANDLE EXTENSIONS ON ALL INSULATED PIPING.
D. ALL HOT WATER SUPPLY PIPING SHALL BE INSTALLED TO COMPENSATE FOR EXPANSION OF THE PIPE BY INSTALLING PIPE ANCHORS, GUIDES, EXPANSION JOINTS, PIPE OFFSETS, OR LOOPS. EXPANSION JOINTS ARE TO ACCOMMODATE THREE AXIS OF MOVEMENT.
E. ALL INTERIOR AND EXTERIOR HOSE BIBS / WALL HYDRANTS, ROOF HYDRANTS, ETC. SHALL RECEIVE WATER SUPPLY DOWNSTREAM OF A STRAINER AND DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER INSTALLED INSIDE THE BUILDING AT NO MORE THAN 48" ABOVE THE FLOOR AND ACCESSIBLE TO MAINTENANCE.
F. MOP SINKS / SERVICE SINKS WITH HOSE THREADED FAUCETS SHALL HAVE A VACUUM BREAKER ON THE SUPPLY AFTER THE VALVES, LOCATED 7'-6" ABOVE FINISHED FLOOR.
G. PROVIDE DUAL CHECK VALVE FOR ALL FEEDS TO ICE MAKERS, COFFEE MAKERS, AND DISHWASHERS.
H. PROVIDE A REDUCED PRESSURE ZONE BACKFLOW PREVENTER FOR ALL CHEMICAL DISPENSING SYSTEMS AT MOP/SERVICE SINKS AND THREE COMPARTMENT SINKS.
I. EACH GROUP OF FIXTURES SUPPLIED WITH A BRANCH FROM THE MAIN SHALL HAVE AN ISOLATION VALVE NEAR THE POINT OF CONNECTION TO THE MAIN. ALL EQUIPMENT SUPPLIED BY COLD AND/OR HOT WATER SHALL HAVE AN ISOLATION VALVE ON THE WATER SUPPLY.
J. PITCH ALL SUPPLY AND RETURN LINES TO DRAIN COMPLETELY THROUGH LOWER EQUIPMENT, FIXTURES, UNIONS, AND DRAIN VALVES.
K. PROVIDE MANUAL AIR VENTS AIR A THE TOP OF ALL COLD AND/OR HOT WATER MAINS.
L. INSTALL A 1/2" DRAIN VALVE WITH 3/4" HOSE THREAD AND VACUUM BREAKER OUTLET IN ALL MAIN PIPING RUNS WHICH WOULD NOT BE ABLE TO DRAIN THRU A LOWER PIECE OF EQUIPMENT.
M. ALL WATER DISTRIBUTION SYSTEMS, POTABLE AND NON-POTABLE, SHALL BE IDENTIFIED BY COLOR MARKING OR METAL TAGS AS REQUIRED BY ASME A13.1.
N. COPPER PIPE ABOVE GROUND SHALL BE (TYPE L) MINIMUM, SWEAT WITH WROUGHT FITTINGS.
O. PROVIDE UNIONS AND/OR FLANGES TO DISCONNECT ALL PERTINENT EQUIPMENT INCLUDING BUT NOT LIMITED TO PUMPS, WATER HEATERS, TANKS, FILTERS AND VALVE TRAINS.

SHEET LIST

SHEET NUMBER	SHEET NAME
P-000	PLUMBING SYMBOLS, NOTES & ABBREVIATIONS
P-050	UNDERGROUND - PLUMBING PLAN
P-100	BASEMENT FLOOR - PLUMBING PLAN
P-101	FIRST AND MEZZANINE FLOOR - PLUMBING PLAN
P-102	SECOND FLOOR - PLUMBING PLAN
P-400	PLUMBING RISER DIAGRAMS
P-600	PLUMBING SCHEDULES
P-800	PLUMBING DETAILS
PD-100	BASEMENT FLOOR - PLUMBING DEMOLITION PLAN
PD-101	FIRST AND MEZZANINE FLOOR - PLUMBING DEMOLITION PLAN
PD-102	SECOND FLOOR - PLUMBING DEMOLITION PLAN

DOB STAMP APPROVAL

CHICAGO PUBLIC LIBRARY

SEAL / DATE 12/5/19

Legler Regional Library Renovation
115 S. Pulaski Road
Chicago, IL 60624
CHICAGO PUBLIC LIBRARY
CITY OF CHICAGO, MAYOR RAHMI EMANUEL

Architect of Record:
RATIO

ADDRESS: 30 West Monroe Street, Suite 500 Chicago, Illinois 60603
PHONE: 312-465-2359
FAX: 312-465-1900
WEB: www.ratiodesign.com

TERRA Engineering Ltd.
225 W. Ohio Street, 4th Floor, Chicago, IL 60654
(312) 467-0123
Civil Engineers of Record

Steam-Joglekar, Ltd.
2223 W. Jackson Blvd # 1110, Chicago, IL 60606
(312) 465-1900
Structural Engineers of Record

db | HMS
305 W. Lake St #510, Chicago, IL 60654
(312) 915-0557
MEPEPP Engineers of Record

Lerch Bates Inc.
216 S. Jefferson St, Suite L12, Chicago, IL 60661
(312) 332-5444
Elevator Consultant

Brush Architects, LLC
4200 N Francisco Ave, Chicago, IL 60618
(312) 925-3070
Facade Consultant

Owen Grossman Lighting Design
53 W Jackson Blvd, Chicago, IL 60654
(312) 877-5125
Lighting Design Consultant

Issue No	Mark	Description	Date
1	ISSUE FOR BID		11/13/19
3	ADDENDUM #3		12/5/19

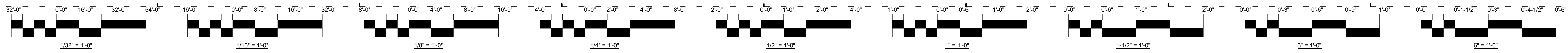
PBC Project Name: Legler Regional Library
PBC Contract No.: C1597
PBC Project No.: 08310

PLUMBING SYMBOLS, NOTES & ABBREVIATIONS

Sheet

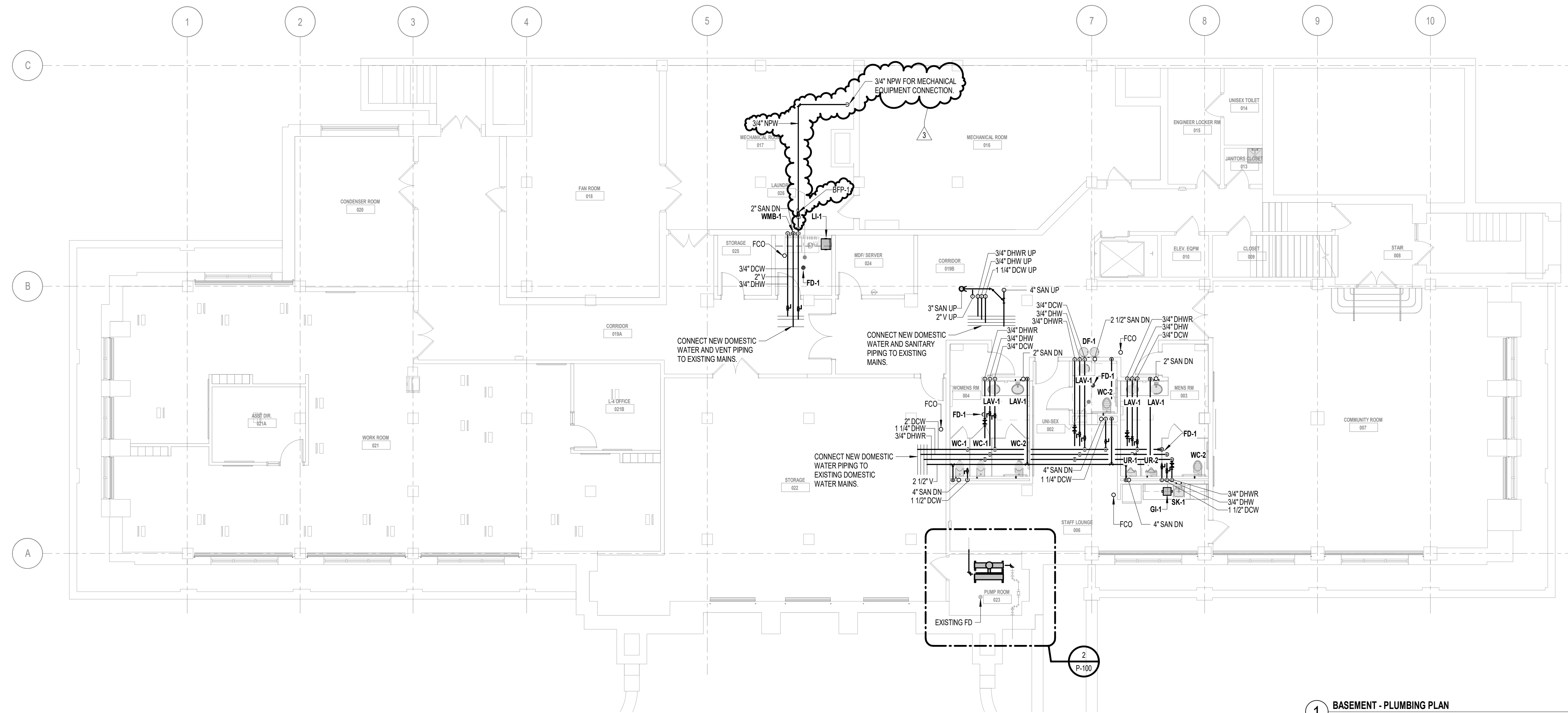
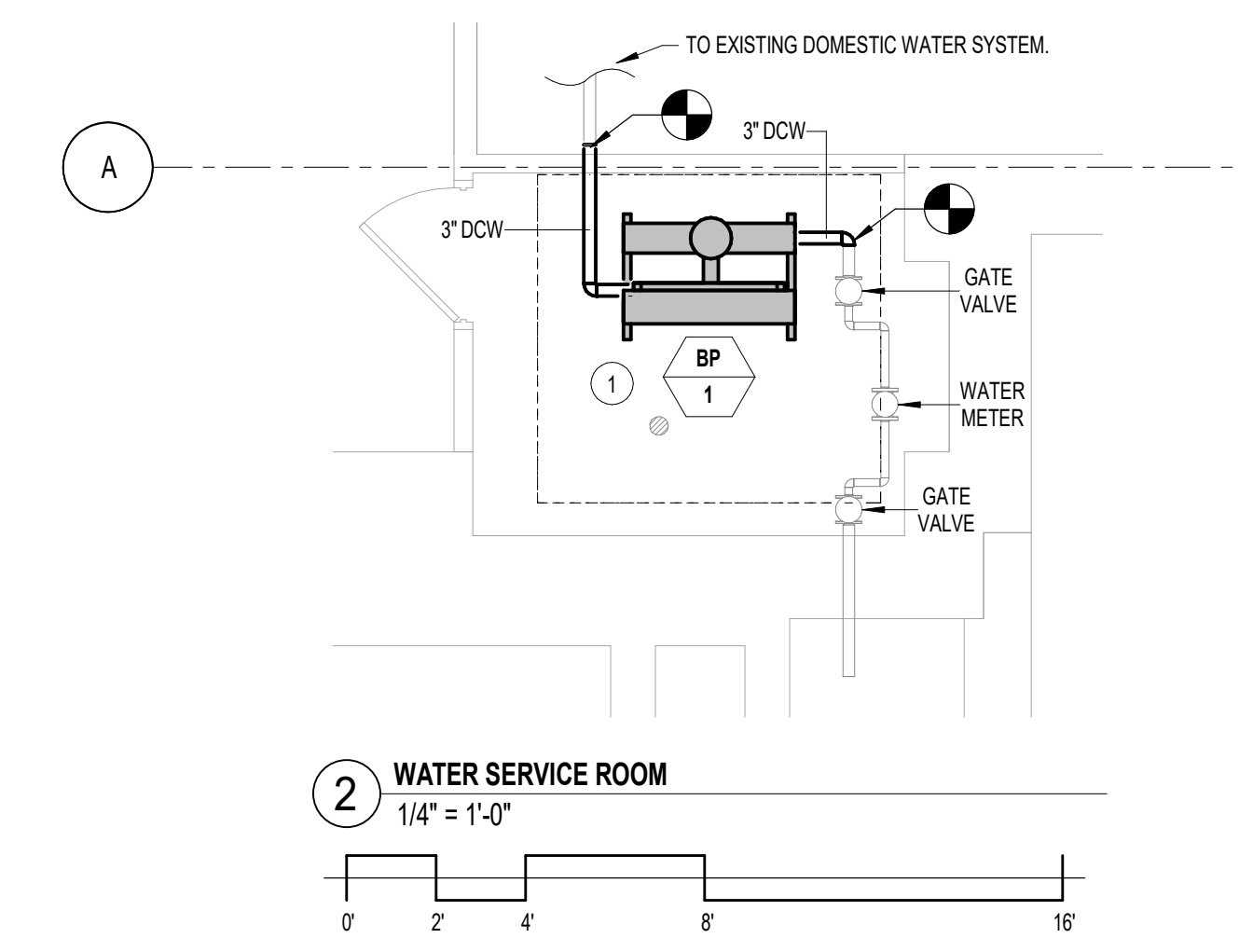
GENERAL NOTE: NOT ALL SYMBOLS, NOTES AND ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT

P-000



PLUMBING NOTES

1 PROVIDE NEW VARIABLE FREQUENCY DRIVE DUPLEX BOOSTER PUMP PACKAGE. CONNECT SUCTION SIDE OF NEW BOOSTER PUMP PACKAGE TO THE EXISTING DOMESTIC WATER SERVICE. CONNECT PUMP OUTLET TO EXISTING BUILDING DOMESTIC WATER DISTRIBUTION PIPING. PROVIDE ALL REQUIRED ISOLATION AND CHECK VALVES WITHIN BOOSTER PUMP PACKAGED SYSTEM.



1 BASEMENT - PLUMBING PLAN
1/8" = 1'-0"

DOB STAMP APPROVAL

CHICAGO PUBLIC LIBRARY

SEAL | DATE 12/5/19

Legler Regional Library Renovation
115 S. Pulaski Road
Chicago, IL 60624
CHICAGO PUBLIC LIBRARY
CITY OF CHICAGO, MAYOR RAHM ELMANUEL

Architect of Record:
RATIO
COPYRIGHT NOTICE: THIS ARCHITECTURAL AND ENGINEERING DRAWING IS GIVEN IN CONFIDENCE AND SHALL BE USED ONLY PURSUANT TO THE AGREEMENT WITH RATIO. NO OTHER USE, DISSEMINATION OR REPRODUCTION MAY BE MADE WITHOUT WRITTEN CONSENT OF RATIO. ALL COMMON LAW RIGHTS OF COPYRIGHT AND OTHERWISE ARE HEREBY SPECIFICALLY RESERVED.

ADDRESS: 30 West Monroe Street, Suite 500
Chicago, Illinois 60603
PHONE: 312-465-2359
FAX:
WEB: www.ratiodesign.com

TERRA Engineering Ltd.
225 W. Ohio Street, 4th Floor, Chicago, IL 60654
(312) 465-0123
Civil Engineers of Record

Stam-Joglekar, Ltd.
223 W. Jackson Blvd # 1110, Chicago, IL 60606
(312) 461-1600
Structural Engineers of Record

db | HMS
305 W. Erie St #510, Chicago, IL 60654
(312) 915-0557
MEPFP Engineers of Record

Lerch Bates Inc.
216 S. Jefferson St, Suite LL2, Chicago, IL 60661
(312) 332-5444
Elevator Consultant

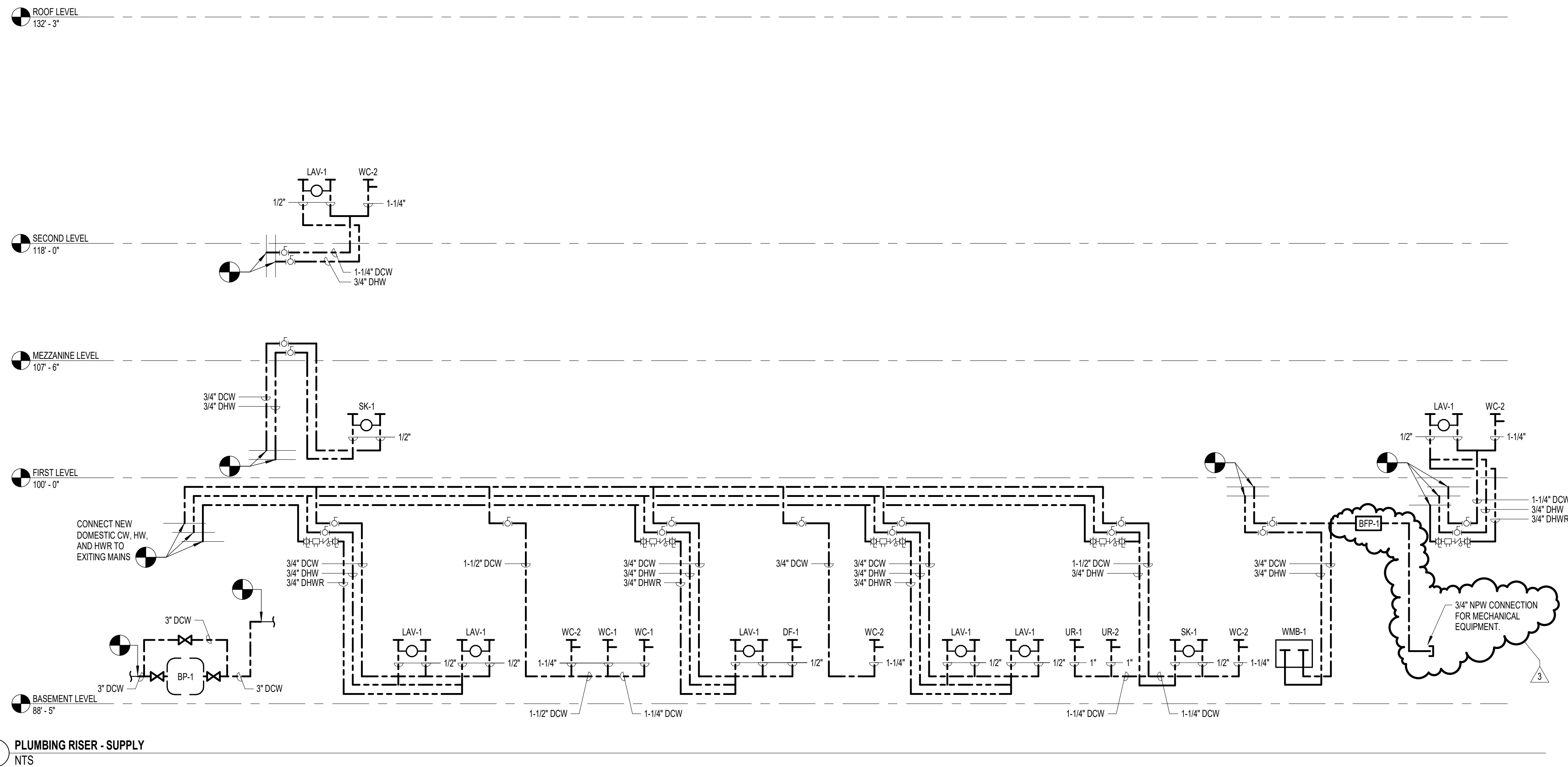
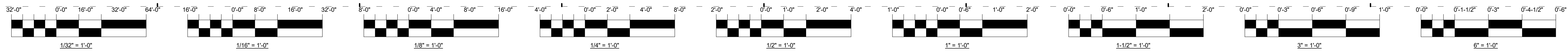
Brush Architects, LLC
4200 N. Francisco Ave, Chicago, IL 60618
(312) 925-3070
Facade Consultant

Gwen Grossman Lighting Design
53 W. Jackson Blvd, Chicago, IL 60654
(312) 877-5125
Lighting Design Consultant

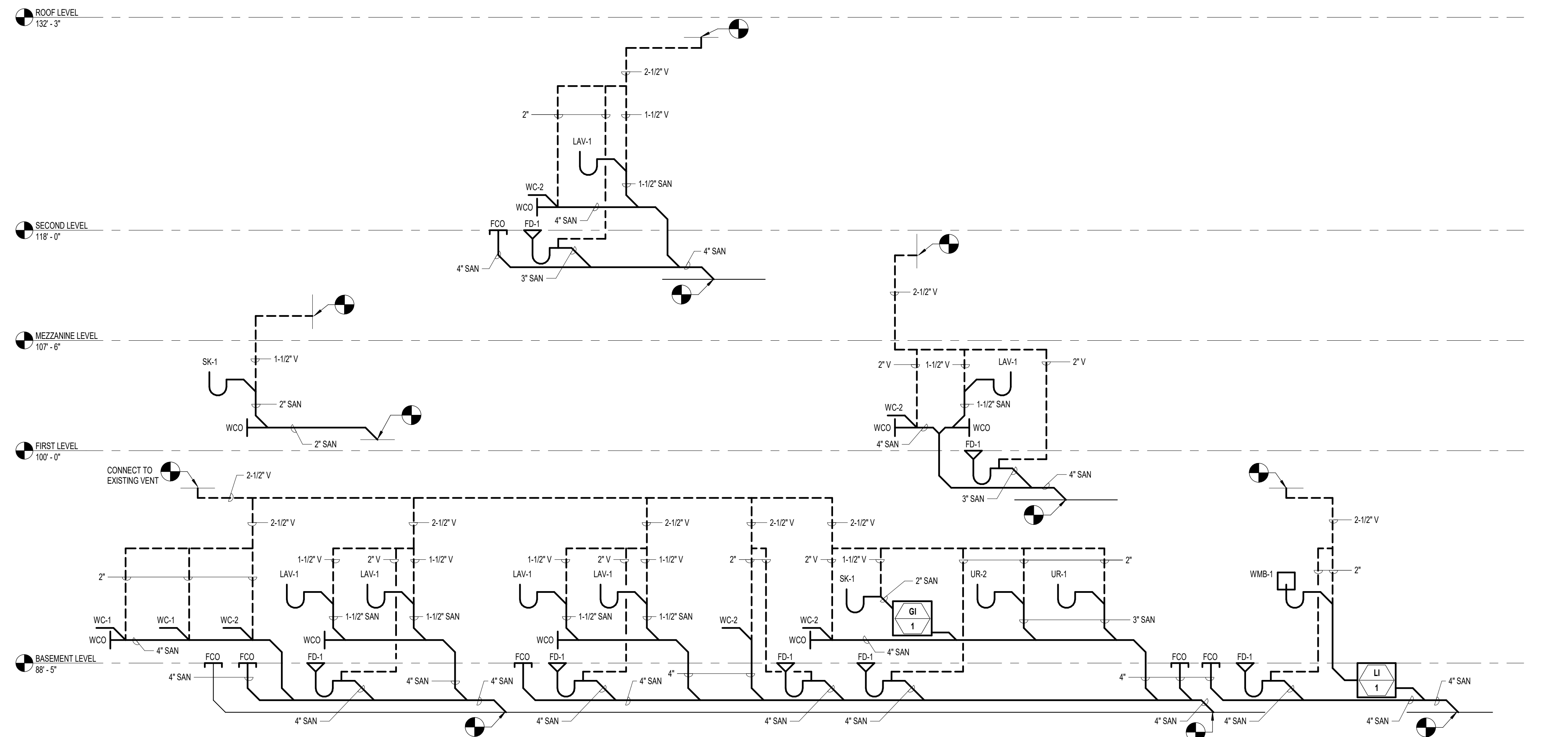
Mark	Description	Date
1	ISSUE FOR BID	11/13/19
3	ADDENDUM #3	12/5/19

PBC Project Name: Legler Regional Library
PBC Contract No.: C1597
PBC Project No.: 08310
Title: **BASEMENT FLOOR - PLUMBING PLAN**

12/5/2019 11:18:11 AM



1 PLUMBING RISER - SUPPLY
NTS



2 PLUMBING RISER - WASTE
NTS

DOB STAMP APPROVAL



SEAL | DATE 12/5/19

Legler Regional Library Renovation
115 S. Pulaski Road
Chicago, IL 60624
CITY OF CHICAGO, MAYOR RAHM ELMANUEL

Architect of Record:



COPYRIGHT NOTICE: THIS ARCHITECTURAL AND ENGINEERING DRAWING IS GIVEN IN CONFIDENCE AND SHALL BE USED ONLY PURSUANT TO THE AGREEMENT WITH RATIO. NO OTHER USE, DISSEMINATION OR REPRODUCTION MAY BE MADE WITHOUT THE WRITTEN CONSENT OF RATIO. ALL COMMON LAW RIGHTS OF COPYRIGHT AND OTHERWISE ARE HEREBY SPECIFICALLY RESERVED.

ADDRESS: 30 West Monroe Street, Suite 500
Chicago, Illinois 60603
PHONE: 312-465-2359
FAX:
WEB: www.ratiodesign.com

TERRA Engineering Ltd.
225 W. Ohio Street, 4th Floor, Chicago, IL 60654
(312) 467-0123
Civil Engineers of Record

Steam-Joglekar, Ltd.
223 W. Jackson Blvd # 1110, Chicago, IL 60606
(312) 461-1600
Structural Engineers of Record

db | HMS
303 W. Erie St #510, Chicago, IL 60654
(312) 915-0577
MEPFP Engineers of Record

Lerch Bates Inc.
216 S. Jefferson St, Suite LL2, Chicago, IL 60661
(312) 332-5444
Elevator Consultant

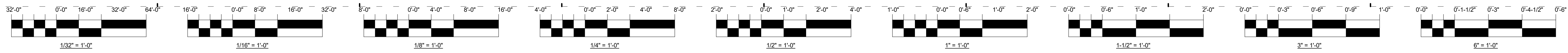
Brush Architects, LLC
4200 N. Francisco Ave, Chicago, IL 60618
(312) 925-3070
Facade Consultant

Gwen Grossman Lighting Design
53 W. Jackson Blvd, Chicago, IL 60654
(312) 877-5125
Lighting Design Consultant

Mark	Description	Date
1	ISSUE FOR BID	11/13/19
3	ADDENDUM #3	12/5/19

PBC Project Name: Legler Regional Library
PBC Contract No.: C1597
PBC Project No.: 08310
Title: PLUMBING RISER DIAGRAMS

12/5/2019 11:18:13 AM



PLUMBING FIXTURES										
TAG	GPM/GPF	FIXTURE				FAUCET/VALVE				REMARKS
		TYPE	FINISH	MANUFACTURER	MODEL	TYPE	MANUFACTURER	MODEL		
LAV-1	0.5	UNDER-MOUNT LAVATORY	VITREOUS CHINA	SLOAN	SS-3001	HARDWIRED AUTOMATIC	SLOAN	SF-2100	1	
SK-1	1.5	TOP-MOUNT SINK	STAINLESS STEEL	ELKAY	LRADQ191855	MANUAL	AMERICAN STANDARD	7502.170.002	1	
UR-1	0.125	WALL-MOUNTED URINAL	VITREOUS CHINA	AMERICAN STANDARD	6590.001	MANUAL FLUSHVALVE	AMERICAN STANDARD	6045.013.002		
UR-2	0.125	WALL-MOUNTED URINAL (ADA ACCESSIBLE)	VITREOUS CHINA	AMERICAN STANDARD	6590.001	MANUAL FLUSHVALVE	AMERICAN STANDARD	6045.013.002		
WC-1	1.1	WALL-MOUNTED WATER CLOSET	VITREOUS CHINA	AMERICAN STANDARD	3351.101	MANUAL FLUSHVALVE	AMERICAN STANDARD	6047.111.002		
WC-2	1.1	WALL-MOUNTED WATER CLOSET (ADA ACCESSIBLE)	VITREOUS CHINA	AMERICAN STANDARD	3351.101	MANUAL FLUSHVALVE	AMERICAN STANDARD	6047.111.002		

1. PROVIDE POINT OF USE TEMPERING VALVE LEONARD 270-LF OR SIMILAR.

DOMESTIC BOOSTER PUMP											
TAG	ABBR.	#	LOCATION	TOTAL CAPACITY (GPM)	MIN. SUCTION (PSI)	MAX. DISCHARGE PRESSURE (PSI)	PUMP QUANTITY	ELECTRICAL DATA			REMARKS
								(TOTAL) HP	VOLTS	PH	
BP	1		ROOM 125	86	20	66	1	5	208 V	3	BELL & GOSSETT AQUABOOST 18502BVS

DRINKING FOUNTAIN						
TAG	FIXTURE	MATERIAL	DIMENSIONS (LXWXH)	MANUFACTURER	MODEL	REMARKS
DF-1	BH-LEVEL DRINKING FOUNTAIN	STAINLESS STEEL	31-1/2" X 18" X 15-1/2"	FILTRINE	107-14-RA-HL	1, 3
DF-2	BH-LEVEL DRINKING FOUNTAIN	BRONZE	31-1/2" X 18" X 15-1/2"	FILTRINE	107-14-RA-HL	2, 3

1. PROVIDE STAINLESS STEEL FINISH
2. PROVIDE BRONZE FINISH
3. SEE ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS.

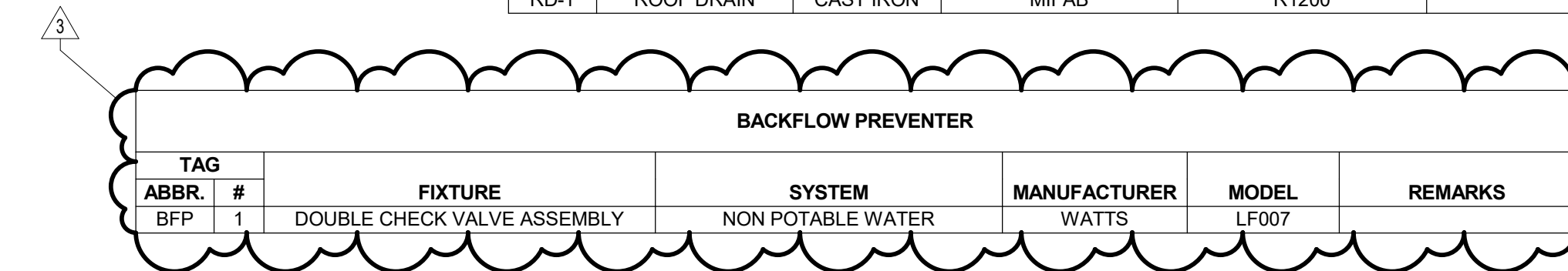
FLOOR DRAIN					
TAG	FIXTURE	MATERIAL	MANUFACTURER	MODEL	REMARKS
FD-1	FINISHED FLOOR DRAIN	CAST IRON	MIFAB	F1100	

WASHING MACHINE BOX				
TAG	FIXTURE	MANUFACTURER	MODEL	REMARKS
WMB-1	WASHING MACHINE BOX	GLY GRAY	T200	

INTERCEPTORS							
TAG	ABBR.	#	LOCATION	DIMENSIONS (LXWXH)	MANUFACTURER	MODEL	REMARKS
	LI	1	STAFF LAUNDRY	1'-5" X 1'-4" X 1'-5"	ROCKFORD SEPARATORS	RLSW-30	1
	GI	1	STAFF LOUNGE	1'-1" X 1'-1" X 1'-7 1/4"	ROCKFORD SEPARATORS	RP-07	2

1. TO BE INSTALLED FLUSH WITH FINISHED FLOOR.
2. TO BE INSTALLED ABOVE FINISHED FLOOR IN SINK CASEWORK.

ROOF DRAIN					
TAG	FIXTURE	MATERIAL	MANUFACTURER	MODEL	REMARKS
RD-1	ROOF DRAIN	CAST IRON	MIFAB	R1200	



BACKFLOW PREVENTER							
TAG	ABBR.	#	FIXTURE	SYSTEM	MANUFACTURER	MODEL	REMARKS
	BFP	1	DOUBLE CHECK VALVE ASSEMBLY	NON POTABLE WATER	WATTS	LF007	

DOB STAMP APPROVAL



SEAL | DATE 12/5/19

Legler Regional Library Renovation
 115 S. Pulaski Road
 Chicago, IL 60624
 CHICAGO PUBLIC LIBRARY
 CITY OF CHICAGO, MAYOR RAHM ELMANUEL

Architect of Record:

RATIO
 COPYRIGHT NOTICE: THIS ARCHITECTURAL AND ENGINEERING DRAWING IS THE PROPERTY OF RATIO AND SHALL BE USED ONLY PURSUANT TO THE AGREEMENT WITH RATIO. NO OTHER USE, REPRODUCTION OR REPLICATION MAY BE MADE WITHOUT THE WRITTEN CONSENT OF RATIO. ALL COMMON LAW RIGHTS OF COPYRIGHT AND OTHERWISE ARE HEREBY SPECIFICALLY RESERVED.
 ADDRESS: 30 West Monroe Street, Suite 500, Chicago, Illinois 60603
 PHONE: 312-465-2359
 FAX:
 WEB: www.ratiodesign.com

TERRA Engineering Ltd.
 225 W. Ohio Street, 4th Floor, Chicago, IL 60654
 (312) 467-0123
 Civil Engineers of Record

Stearns-Joglekar, Ltd.
 223 W. Jackson Blvd # 1110, Chicago, IL 60606
 (312) 461-1600
 Structural Engineers of Record

db | HMS
 303 W. Erie St #510, Chicago, IL 60654
 (312) 915-0557
 MEPFP Engineers of Record

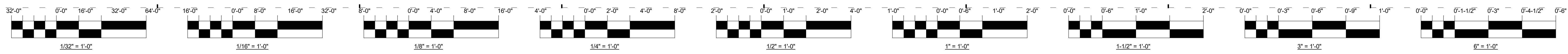
Lerch Bates Inc.
 216 S. Jefferson St, Suite LL2, Chicago, IL 60661
 (312) 332-5444
 Elevator Consultant

Brush Architects, LLC
 4200 N. Francisco Ave, Chicago, IL 60618
 (312) 925-3070
 Facade Consultant

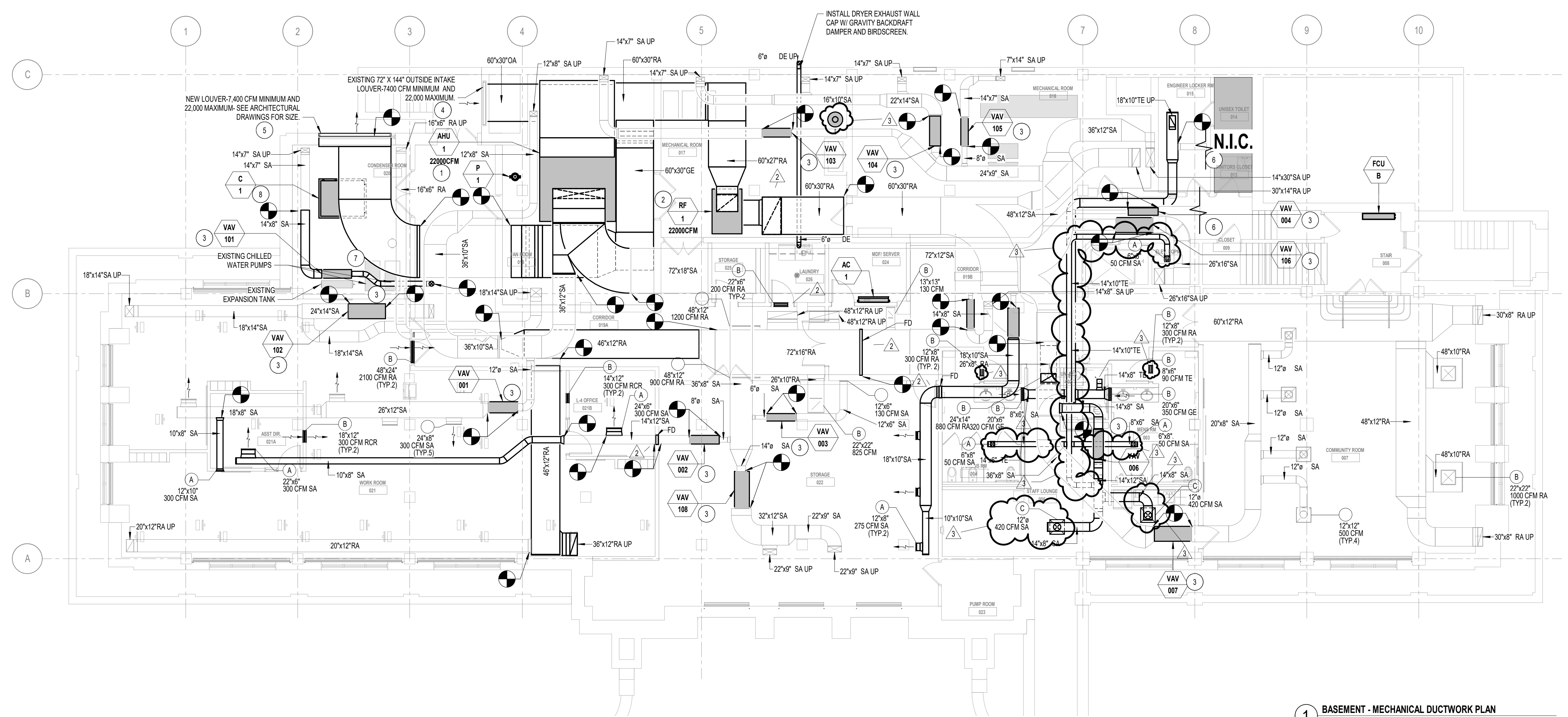
Gwen Grossman Lighting Design
 63 W. Jackson Blvd, Chicago, IL 60604
 (312) 877-5125
 Lighting Design Consultant

Mark	Description	Date
1	ISSUE FOR BID	11/13/19
3	ADDENDUM #3	12/5/19

PBC Project Name: Legler Regional Library
 PBC Contract No.: C1597
 PBC Project No.: 08310
 Title: PLUMBING SCHEDULES



- MECHANICAL DUCTWORK KEYNOTES**
- AIR HANDLING UNIT (AHU) WILL BE SHIPPED IN MULTIPLE PIECES. RETAIN SERVICE OF A MANUFACTURER AND INSTALL ALL PIECES AIRTIGHT. AHU TO BE INSTALLED ON NEW NEOPRENE PADS AND ON EXISTING CONCRETE PAD. ENLARGE CONCRETE PADS AS NECESSARY. EXTEND AND CONNECT OUTSIDE AIR INTAKE. RETURN AIR AND SUPPLY AIR DUCTWORK TO THE AHU COMPLETE AS REQUIRED. INCLUDE ALL MODIFICATION OF EXISTING DUCTWORK AS REQUIRED TO ACCOMMODATE NEW AHU OPENING SIZES AND LOCATIONS.
 - INSTALL NEW RETURN AIR FAN WHERE SHOWN. MODIFY DOWNSTREAM DUCTWORK AND PROVIDE NECESSARY TRANSITION PIECES TO ACCOMMODATE THE NEW RETURN AIR FAN. PROVIDE ALL CONTROLS NECESSARY FOR PROPER OPERATION.
 - FURNISH NEW VAV BOX AND INSTALL WHERE SHOWN. ADJUST THEIR LOCATION AS NECESSARY. MODIFY EXISTING UPSTREAM AND/OR DOWNSTREAM DUCTWORK AS REQUIRED TO ACCOMMODATE NEW BOX. TEMPORARILY REMOVE PIPING AND DUCTWORK THAT MAY BE IN A WAY OF NEW BOX INSTALLATION AND REINSTALL THEM ONCE THE NEW BOX IS INSTALLED.
 - REMOVE OUTSIDE AIR INTAKE LOUVER AND CLEAN PLUGGED BIRD SCREEN (LOCATED BEHIND THE LOUVER) IN PLACE. ONCE THE SCREEN IS CLEAN, RE-INSTALL LOUVER. SECURE AND CAULK ALL AROUND WEATHERTIGHT.
 - REMOVE EXISTING EXHAUST GRILLE FOR THE AHU. EXTEND EXHAUST DUCT AND CONNECT TO NEW EXHAUST LOUVERS. FABRICATE EXHAUST PLENUM BEHIND TWO EXISTING LOUVERS AND CONNECT EXHAUST DUCT TO PLENUM COMPLETE AS REQUIRED.
 - EXISTING DUCT DISTRIBUTION TO REMAIN. REBALANCE EXISTING DIFFUSERS AND REGISTERS TO MATCH THE AIRFLOW OF THE VAV BOX SHOWN.
 - EXISTING CHILLED WATER PUMPS TO REMAIN. BALANCE THEM FOR THE DESIGN FLOWRATES INDICATED.
 - INSTALL NEW CHILLER ON EXISTING CONCRETE PAD WITH NEOPRENE PADS. ENLARGE PAD AS NECESSARY TO ACCOMMODATE THE NEW CHILLER. MODIFY AND EXTEND CONDENSER WATER, CHILLED WATER AND REFRIGERANT VENT PIPING AND CONNECT TO CHILLER COMPLETE AS REQUIRED. PROVIDE CONTROLS SENSORS AND WIRING FOR A COMPLETE OPERATION OF THE CHILLER SYSTEM.



1 BASEMENT - MECHANICAL DUCTWORK PLAN
 1/8" = 1'-0"

DOB STAMP APPROVAL

CHICAGO PUBLIC LIBRARY

SEAL DATE 12/5/19

Leger Regional Library Renovation
 115 S. Pulaski Road
 Chicago, IL 60624
 CHICAGO PUBLIC LIBRARY
 CITY OF CHICAGO, MAYOR RAHM ELMANUEL

Architect of Record:
RATIO
 COPYRIGHT NOTICE: THIS ARCHITECTURAL AND ENGINEERING DRAWING IS GIVEN IN CONFIDENCE AND SHALL BE USED ONLY PURSUANT TO THE AGREEMENT WITH RATIO. NO OTHER USE, DISSEMINATION OR REPRODUCTION MAY BE MADE WITHOUT THE WRITTEN CONSENT OF RATIO. ALL COMMON LAW RIGHTS OF COPYRIGHT AND OTHERWISE ARE HEREBY SPECIFICALLY RESERVED.
 ADDRESS: 30 West Monroe Street, Suite 500, Chicago, Illinois 60603
 PHONE: 312-465-2359
 FAX: 312-461-1600
 WEB: www.ratiodesign.com

TERRA Engineering Ltd.
 225 W. Ohio Street, 4th Floor, Chicago, IL 60654
 (312) 467-0123
 Civil Engineers of Record

Steam-Joglekar, Ltd.
 223 W. Jackson Blvd # 1110, Chicago, IL 60606
 (312) 461-1600
 Structural Engineers of Record

db | HMS
 303 W. Erie St #510, Chicago, IL 60654
 (312) 915-0557
 MEPFP Engineers of Record

Lech Bates Inc.
 216 S. Jefferson St, Suite LL2, Chicago, IL 60661
 (312) 332-5444
 Elevator Consultant

Brush Architects, LLC
 4200 N. Francisco Ave, Chicago, IL 60618
 (312) 925-3070
 Facade Consultant

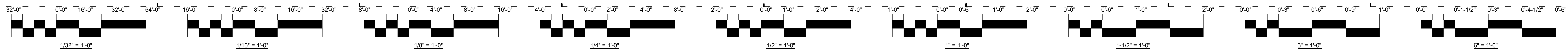
Gwen Grossman Lighting Design
 53 W. Jackson Blvd, Chicago, IL 60654
 (312) 877-5125
 Lighting Design Consultant

Mark	Description	Date
1	ISSUE FOR BID	11/13/19
2	ADDENDUM #2	11/27/19
3	ADDENDUM #3	12/5/19

PBC Project Name: Leger Regional Library
 PBC Contract No.: C1597
 PBC Project No.: 08310
 Title: BASEMENT FLOOR - MECHANICAL DUCTWORK PLAN
 Sheet

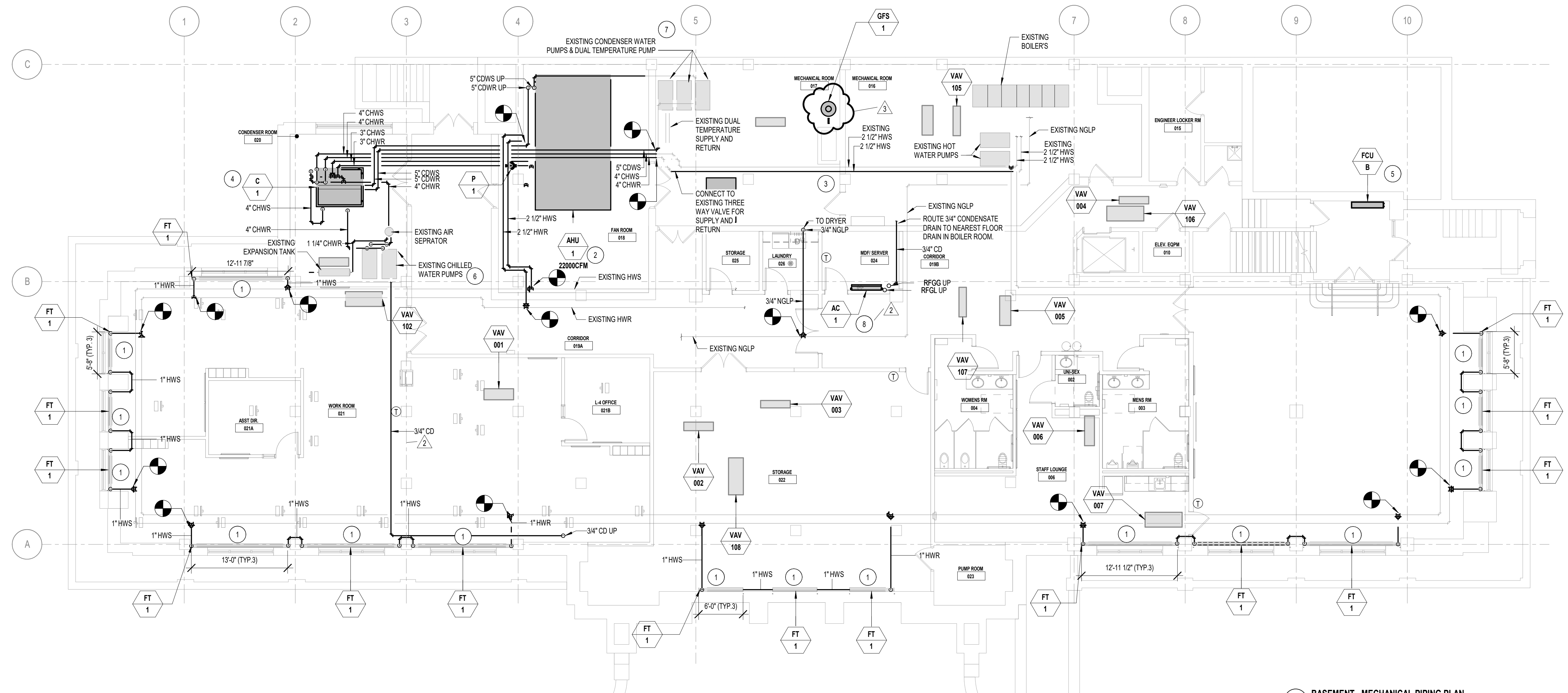
M-100

12/5/2019 11:21:06 AM



MECHANICAL PIPING NOTES

- 1 INSTALL NEW HOT WATER RADATORS WHERE SHOWN (AT EACH WINDOW) AT THE SAME ELEVATION AS EXISTING ONES. RADATORS SHALL BE COLUMN TO COLUMN AND EACH WINDOW LOCATION SHALL HAVE ITS OWN SUPPLY AND RETURN PIPING DROPS AND THEY SHALL BE ROUTED VERTICALLY IN THE CORNER OF EACH COLUMN.
- 2 PROVIDE NEW CHILLED WATER AND HOT WATER PIPING TO AHU. FROM PIPING MAINS, EXTEND AND CONNECT CHILLED WATER AND HOT WATER PIPING TO COILS COMPLETE AS REQUIRED. INCLUDE ALL MODIFICATION OF EXISTING PIPING AS REQUIRED TO ACCOMMODATE NEW AHU.
- 3 INSTALL NEW RETURN AIR FAN WHERE SHOWN. MODIFY DOWNSTREAM/UPSTREAM DUCTWORK AND PROVIDE NECESSARY TRANSITION PIECES TO ACCOMMODATE THE NEW RETURN AIR FAN. PROVIDE ALL CONTROLS NECESSARY FOR PROPER OPERATION.
- 4 INSTALL NEW CHILLER ON EXISTING CONCRETE PAD WITH HYDRO-PADS. ENLARGE PAD AS NECESSARY TO ACCOMMODATE THE NEW CHILLER. MODIFY AND EXTEND CONDENSER WATER, CHILLED WATER AND REFRIGERANT VENT PIPING AND CONNECT TO CHILLER COMPLETE AS REQUIRED. PROVIDE CONTROLS SENSORS AND WIRING FOR A COMPLETE OPERATION OF THE CHILLER SYSTEM.
- 5 INSTALL NEW FAN COIL UNIT WHERE SHOWN. EXTEND DUAL TEMPERATURE PIPING AND CONDENSATE DRAIN PIPING AND CONNECT TO NEW FCU COMPLETE AS REQUIRED. BALANCE FCU TO THE DESIGN AIR AND WATER FLOWS SHOWN.
- 6 EXISTING CHILLED WATER PUMPS TO REMAIN. BALANCE THEM FOR THE DESIGN FLOWRATES INDICATED.
- 7 EXISTING CONDENSER WATER AND DUAL TEMPERATURE WATER PUMPS TO REMAIN. BALANCE THEM FOR THE DESIGN FLOWRATES INDICATED.
- 8 FROM AC-1, ROUTE 1\"/>



1 BASEMENT - MECHANICAL PIPING PLAN
 1/8" = 1'-0"

DOB STAMP APPROVAL

CHICAGO PUBLIC LIBRARY
 SEAL | DATE 12/5/19

Leger Regional Library Renovation
 115 S. Pulaski Road
 Chicago, IL 60624
 CHICAGO PUBLIC LIBRARY
 CITY OF CHICAGO, MAYOR RAHM ELMANUEL

Architect of Record:
RATIO
COPYRIGHT NOTICE: THIS ARCHITECTURAL AND ENGINEERING DRAWING IS GIVEN IN CONFIDENCE AND SHALL BE USED ONLY PURSUANT TO THE AGREEMENT WITH RATIO. NO OTHER USE, REPRODUCTION OR REPLICATION MAY BE MADE WITHOUT THE WRITTEN CONSENT OF RATIO. ALL COMMON LAW RIGHTS OF COPYRIGHT AND OTHERWISE ARE HEREBY SPECIFICALLY RESERVED.
 ADDRESS: 30 West Monroe Street, Suite 500, Chicago, Illinois 60603
 PHONE: 312-465-2359
 FAX: 312-461-1800
 WEB: www.ratiodesign.com

TERRA Engineering Ltd.
 225 W. Ohio Street, 4th Floor, Chicago, IL 60654
 (312) 467-0123
 Civil Engineers of Record

Steam-Joglekar, Ltd.
 223 W. Jackson Blvd # 1110, Chicago, IL 60606
 (312) 461-1800
 Structural Engineers of Record

db | HMS
 303 W. Erie St #510, Chicago, IL 60654
 (312) 915-0577
 MEPFP Engineers of Record

Lerch Bates Inc.
 216 S. Jefferson St, Suite LL2, Chicago, IL 60661
 (312) 332-5444
 Elevator Consultant

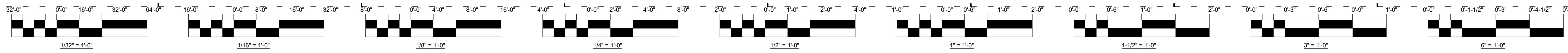
Brush Architects, LLC
 4200 N. Francisco Ave, Chicago, IL 60618
 (312) 925-3070
 Facade Consultant

Gwen Grossman Lighting Design
 53 W. Jackson Blvd, Chicago, IL 60654
 (312) 877-5125
 Lighting Design Consultant

Issue	Mark	Description	Date
1	ISSUE FOR BID		11/13/19
2	ADDENDUM #2		11/27/19
3	ADDENDUM #3		12/5/19

PBC Project Name: Leger Regional Library
 PBC Contract No.: C1597
 PBC Project No.: 08310
BASEMENT FLOOR - MECHANICAL PIPING PLAN

12/5/2019 11:16:00 AM



CABINET HEATER (HYDRONIC)												
TAG	LOCATION	AREA SERVED	ELECTRICAL DATA	EWT	LWT	EAT	MBH	GPM	P.D. FT. WATER	CFM @ FINAL AIR TEMP.	REMARKS	
ABBR.	#	RM. NAME	RM. NUMBER	VOLTS	PH							
CUH	1	EXISTING VESTIBULE	101	120 V	1	180	180	29	4	15.4	430	STERLING F-1020
CUH	2	EXISTING VESTIBULE	101	120 V	1	180	180	29	4	15.4	430	STERLING F-1020

FANS													
TAG	LOCATION	SYSTEM SERVED	CFM	F.S.P. IN WC	FAN DATA	ELECTRICAL DATA	UNIT WEIGHT (LBS)	MANUFACTURER	MODEL	REMARKS			
ABBR.	#				TYPE	RPM	DRIVE	HP	VOLTS	PH	HZ		
EF	1	ROOF	1040	0.5	DOWNBLAST	1525	DIRECT	1/4	120 V	1	60	40	GREENHECK G-103-VG
RF	1	MECHANICAL ROOM 017	AHU-1	22000	UNIVERSAL SINGLE WIDTH	1050		15	208 V	3	60	1007	GREENHECK USF-36
EF	2	ROOF	560	0.3	DOWNBLAST	1725	DIRECT	1/8	120 V	1	60	30	GREENHECK G-095-VG
EF	3	ROOF	460	0.3	DOWNBLAST	1725	DIRECT	1/8	120 V	1	60	30	GREENHECK G-095-VG
EF	4	ROOF	120	0.25	DOWNBLAST	1550	DIRECT	1/8	120 V	1	60	18	GREENHECK G-060-D
EF	5	ROOF	3750	.5	INLINE	1725	BELT	3/4	208 V	3	60	77	GREENHECK SBCE-3H24-7

DIFFUSERS, REGISTERS AND GRILLES							
TAG	TYPE	SIZE	DAMPER	MATERIAL/FINISH	MANUFACTURER	MODEL	REMARKS
A	SUPPLY	SEE PLANS		STEEL	TITUS	300RL	SEE NOTES
B	RETURN / EXHAUST / TRANSFER	SEE PLANS		STEEL	TITUS	350RL	SEE NOTES
C	SUPPLY	SEE PLANS		STEEL	OMNI	OMNI	SEE NOTES
D	RETURN / EXHAUST / TRANSFER	SEE PLANS		STEEL	TITUS	OMNI	SEE NOTES

1 ARCHITECT TO SPECIFY FINISH AND FINAL CEILING LOCATIONS

FAN COIL UNIT																											
TAG	LOCATION	RM. NUMBER	UNIT SIZE	HEATING COIL DATA (FLUID)				COOLING COIL DATA				FAN/MOTOR DATA				FAN/MOTOR DATA				MANUFACTURER	MODEL	REMARKS					
ABBR.	#	RM. NAME		MBH	GPM	WPD (FT)	ROWS	EWT/LWT (F)	EAT (F)	LAT (F)	TOTAL MBH	GPM	WPD (FT)	ROWS	EWT/LWT (F)	EAT (F)	LAT (F)	CFM	SP	HP	FLA	VOLTS	PH	HZ			
FCU	1	MUSIC STUDIO	211	36.4	3.7	28.5	4	180/160	70	154.3	12.4	2.5	20	4	45/55	78	56.3	400	0.3	1/8	2.1	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	CPY-04	
FCU	1-1	CONFERENCE ROOM	108	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	200		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	1-2	ADULT/ REFERENCE READING ROOM	107	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	200		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	1-3	ADULT/ REFERENCE READING ROOM	107	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	200		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	1-4	ADULT/ REFERENCE READING ROOM	107	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	200		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	1-5	ADULT/ REFERENCE READING ROOM	107	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	200		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	1-6	ADULT/ REFERENCE READING ROOM	107	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	200		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	1-7	ADULT/ REFERENCE READING ROOM	107	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	200		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	1-8	CHILDREN'S READING ROOM	119	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	1-9	CHILDREN'S READING ROOM	119	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	1-10	CHILDREN'S READING ROOM	119	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	1-11	CHILDREN'S READING ROOM	119	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	1-12	CHILDREN'S READING ROOM	119	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	1-13	RECEIVING ROOM	116	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	1-14	RECEIVING ROOM	116	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	1-15	CHAIR LIFT	102	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	2-1	YOU MEDIA	206	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	2-2	YOU MEDIA	206	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	2-3	YOU MEDIA	206	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	2-4	TEENS STAFF ROOM	208	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	200		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	2-5	TEENS STAFF ROOM	208	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	200		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	2-6	TEENS STAFF HEAD	208-A	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	200		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	2-7	STORAGE	205	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	2-8	EXISTING LOBBY	201	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	2-9	COMPUTER LAB	227	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	2-10	COMPUTER LAB	227	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	2-11	COMPUTER LAB	227	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	2-12	COMPUTER LAB	227	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	2-13	COMPUTER LAB	227	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	2-14	COMPUTER LAB	227	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	2-15	MAKER LAB	209	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	200		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	2-16	MAKER LAB	209	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	200		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	2-17	MAKER LAB	209	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	200		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	
FCU	B	STAIR	008	18.4	1.9	7.5	4	180/160	70	155.6	6.106	1.2	5	4	45/55	78	56.4	160		1/7	1.2	120 V	1	60	INTERNATIONAL ENVIRONMENTAL	FXY-02	

GLYCOL FILL STATION										
TAG	LOCATION	AREA SERVED	TANK CAPACITY (GALLONS)	HZ	HP	PH	VOLTAGE	MANUFACTURER	MODEL	REMARKS
GFS	1	MECHANICAL ROOM 017	HOT AND CHILLED WATER SYSTEM	55	60	3/4	115 V	BELL AND GOSSET	GMLJ-60	

DOB STAMP APPROVAL

CHICAGO PUBLIC LIBRARY

SEAL DATE 12/5/19

Legler Regional Library Renovation
 115 S. Pulaski Road
 Chicago, IL 60624
 CHICAGO PUBLIC LIBRARY
 CITY OF CHICAGO, MAYOR RAHM ELMANUEL

Architect of Record:
RATIO
COPYRIGHT NOTICE: THIS ARCHITECTURAL AND ENGINEERING DRAWING IS THE PROPERTY OF RATIO AND SHALL BE USED ONLY PURSUANT TO THE AGREEMENT WITH RATIO. NO OTHER USE, REPRODUCTION OR DISTRIBUTION MAY BE MADE WITHOUT THE WRITTEN CONSENT OF RATIO. ALL COMMON LAW RIGHTS OF COPYRIGHT AND OTHERWISE ARE HEREBY SPECIFICALLY RESERVED.

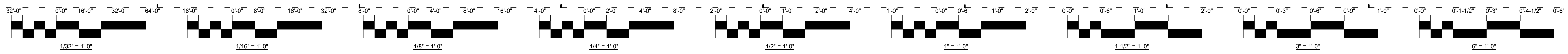
ADDRESS: 30 West Monroe Street, Suite 500
 Chicago, Illinois 60603
 PHONE: 312-465-2359
 FAX:
 WEB: www.ratiodesign.com

TERRA Engineering Ltd.
 225 W. Ohio Street, 4th Floor, Chicago, IL 60654
 (312) 467-0123
 Civil Engineers of Record

Steam-Joglekar, Ltd.
 223 W. Jackson Blvd # 1110, Chicago, IL 60606
 (312) 461-1600
 Structural Engineers of Record

db | HMS
 303 W. Erie St #510, Chicago, IL 60654
 (312) 915-0557
 MEPFP Engineers of Record

Lerch Bates Inc.
 216 S. Jefferson St, Suite LL2, Chicago, IL 60661
 (312) 332-5444
 Elevator Consultant



Legler Regional Library Renovation
 115 S. Pulaski Road
 Chicago, IL 60624
 CHICAGO PUBLIC LIBRARY
 CITY OF CHICAGO, MAYOR RAHIM EMMANUEL

Architect of Record:
RATIO
Copyright Notice: This architectural and engineering drawing is the property of RATIO and shall be used only pursuant to the agreement with RATIO. NO OTHER USE, REPRODUCTION OR DISTRIBUTION MAY BE MADE WITHOUT THE WRITTEN CONSENT OF RATIO. ALL COMMON LAW RIGHTS OF COPYRIGHT AND OTHERWISE ARE HEREBY SPECIFICALLY RESERVED.

ADDRESS: 30 West Monroe Street,
 Suite 500
 Chicago, Illinois 60603
 PHONE: 312-465-2359
 FAX:
 WEB: www.ratiodesign.com

TERRA Engineering Ltd.
 225 W. Ohio Street, 4th Floor, Chicago, IL 60654
 (312) 467-0123
 Civil Engineers of Record

Steam-Joglekar, Ltd.
 223 W. Jackson Blvd # 1110, Chicago, IL 60606
 (312) 461-1600
 Structural Engineers of Record

db | HMS
 303 W. Erie St #510, Chicago, IL 60654
 (312) 915-0557
 MEPFP Engineers of Record

Lerch Bates Inc.
 216 S. Jefferson St, Suite LL2, Chicago, IL 60661
 (312) 332-5444
 Elevator Consultant

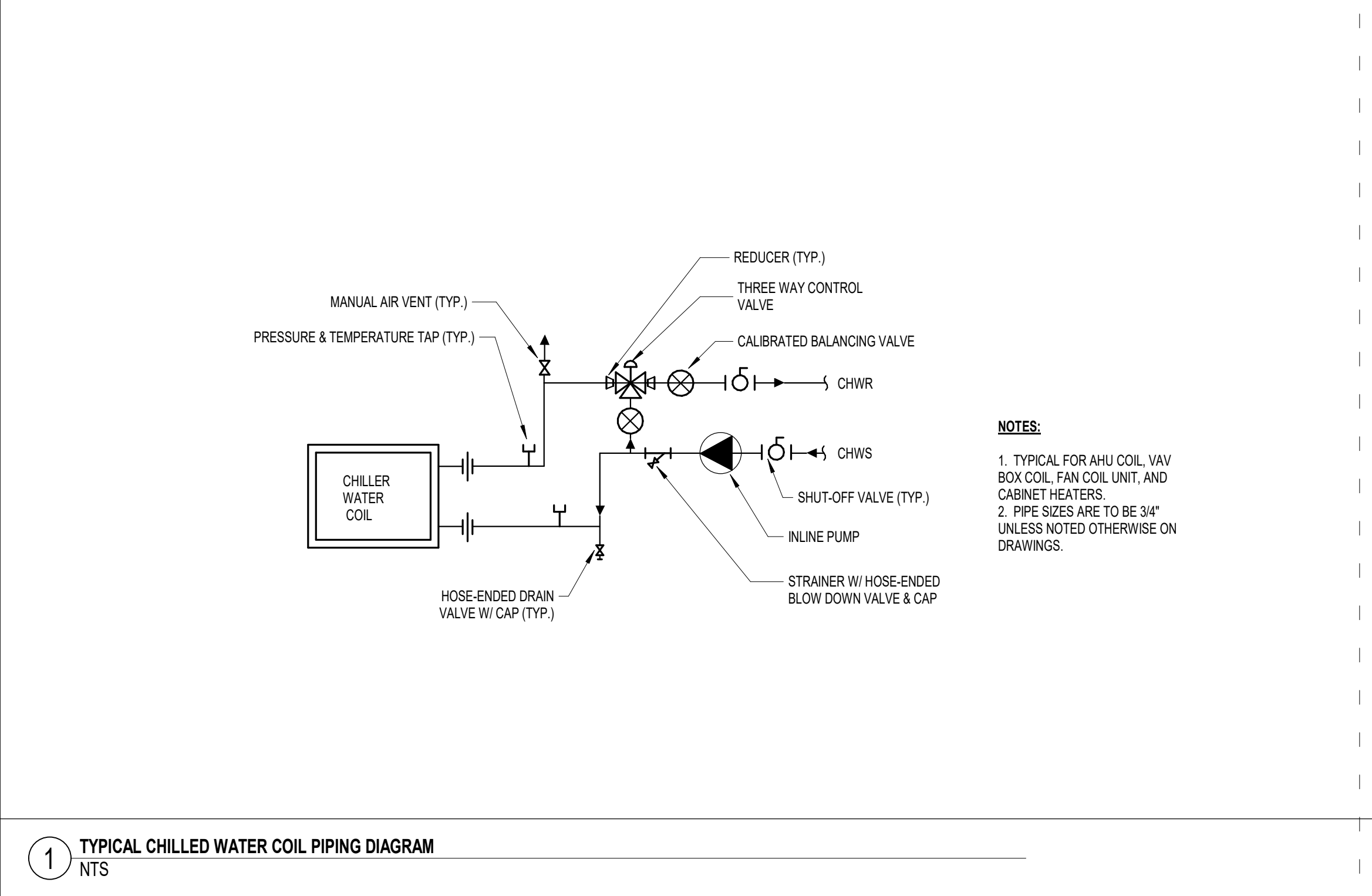
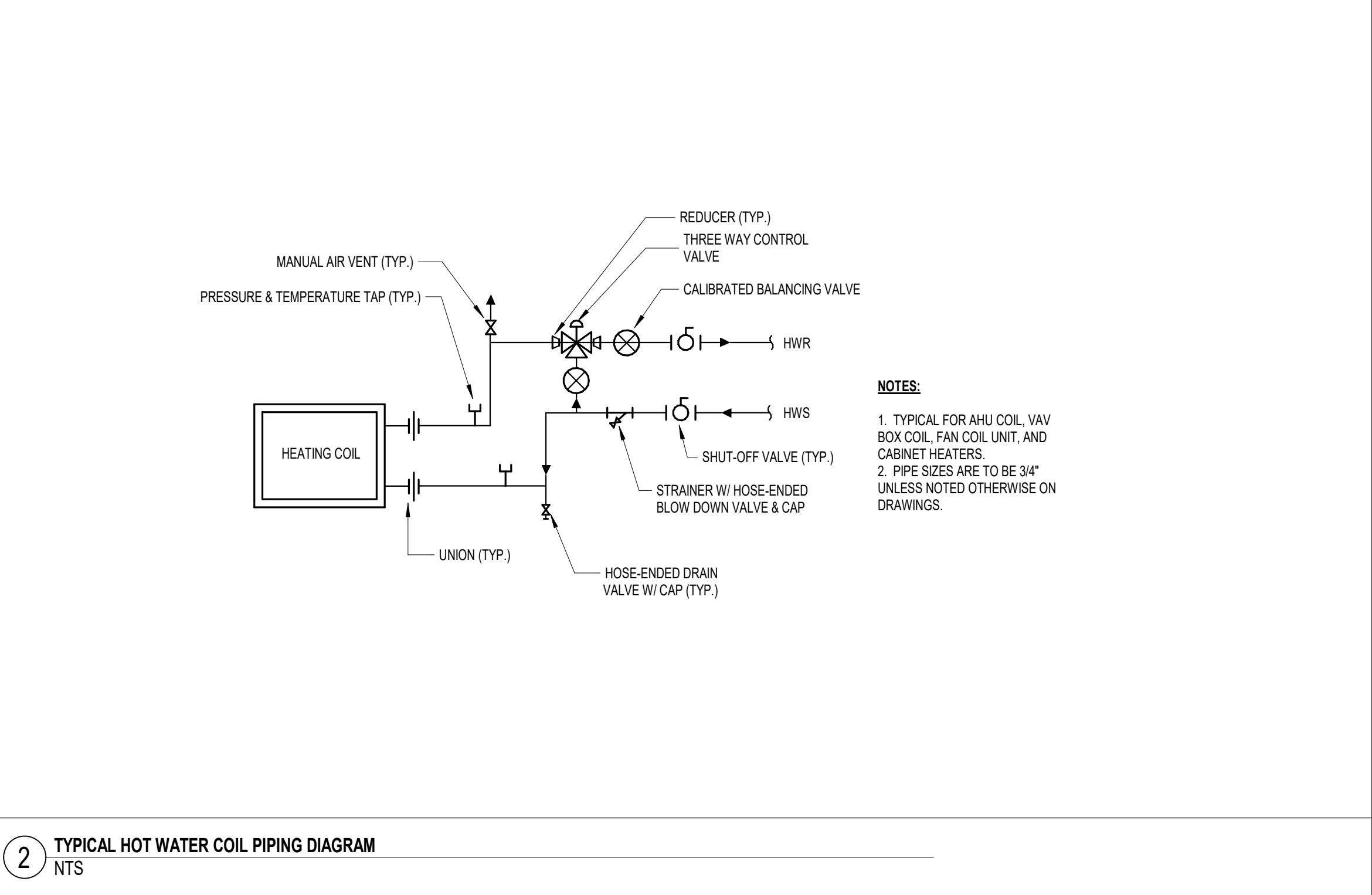
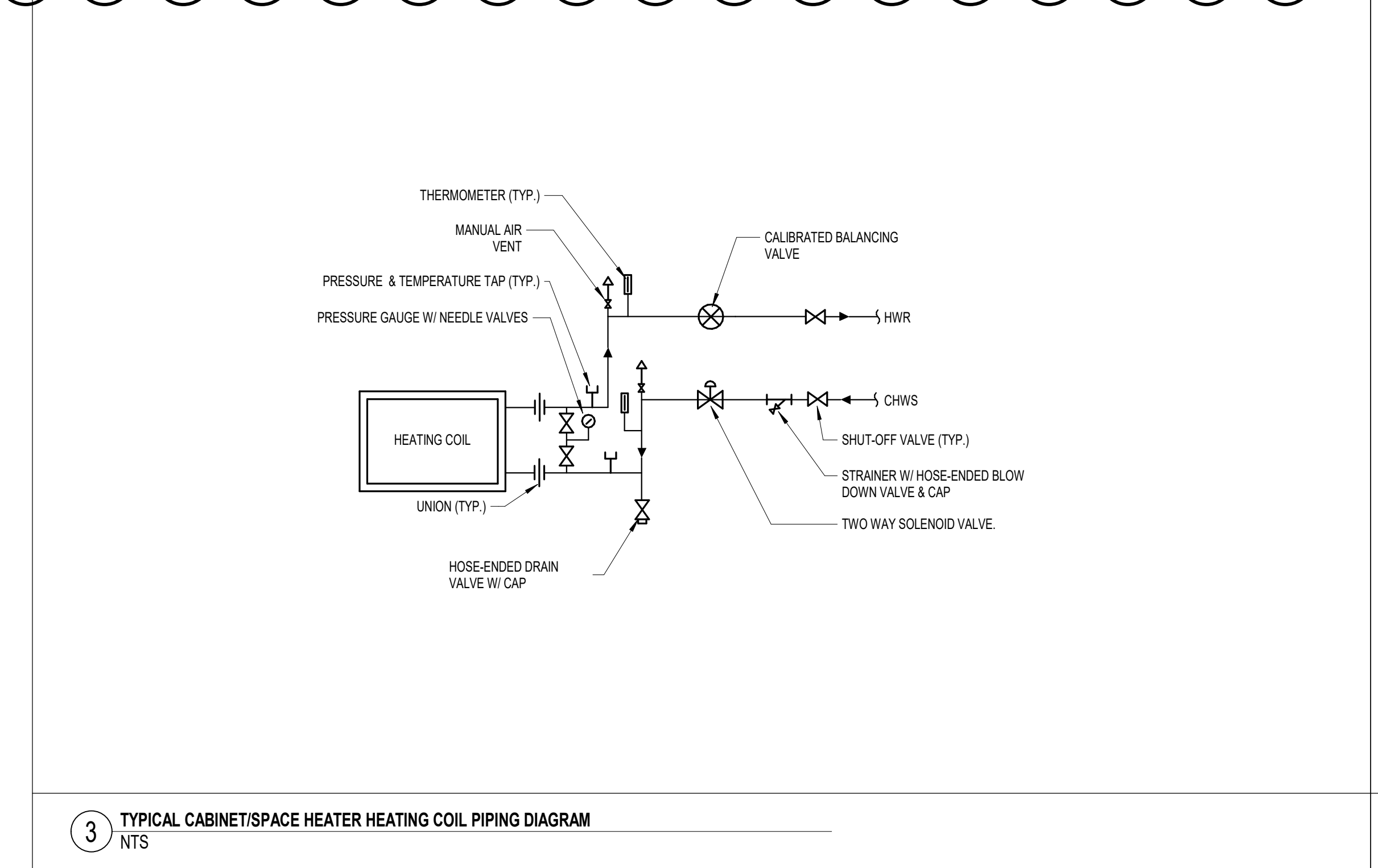
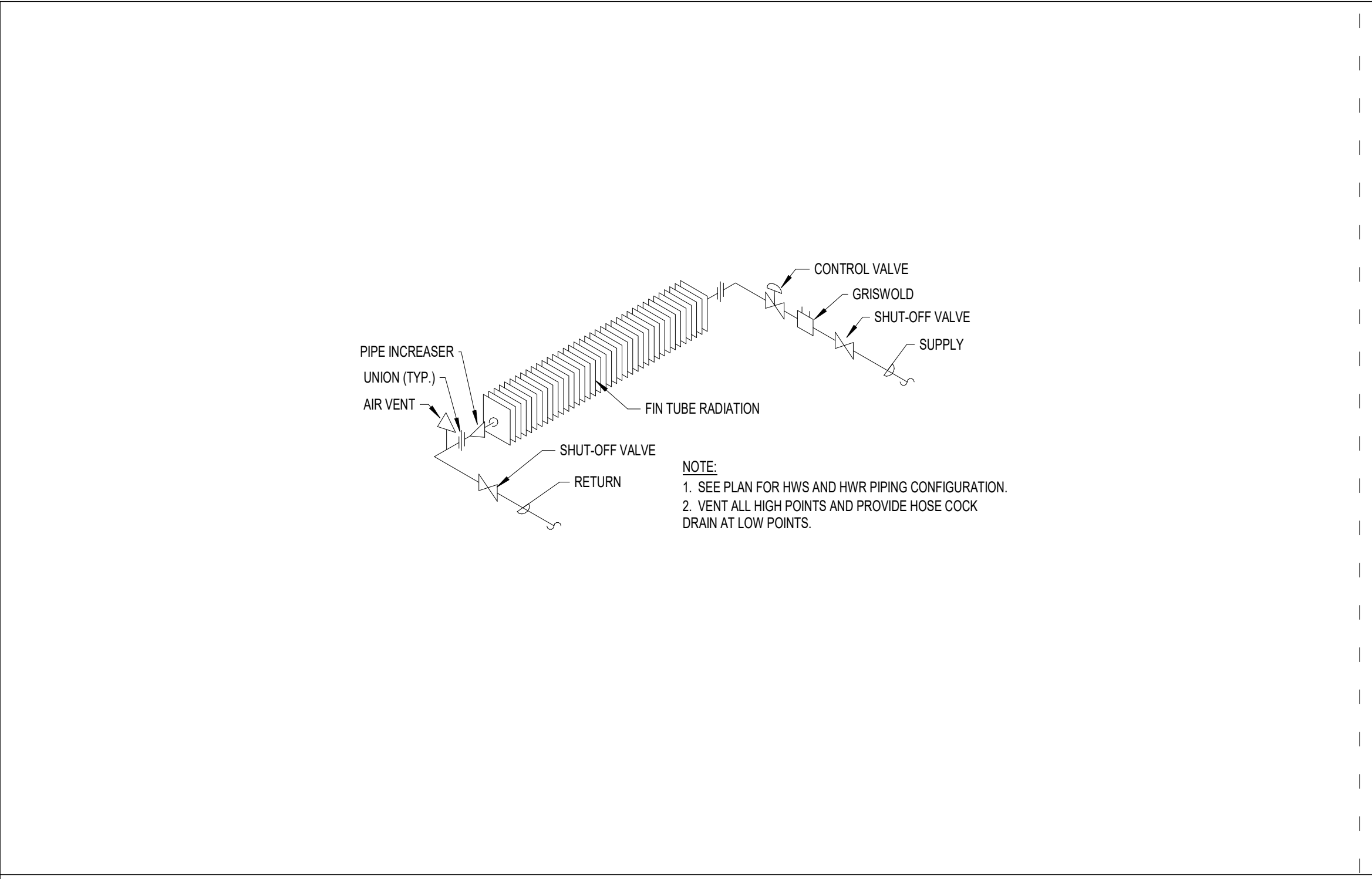
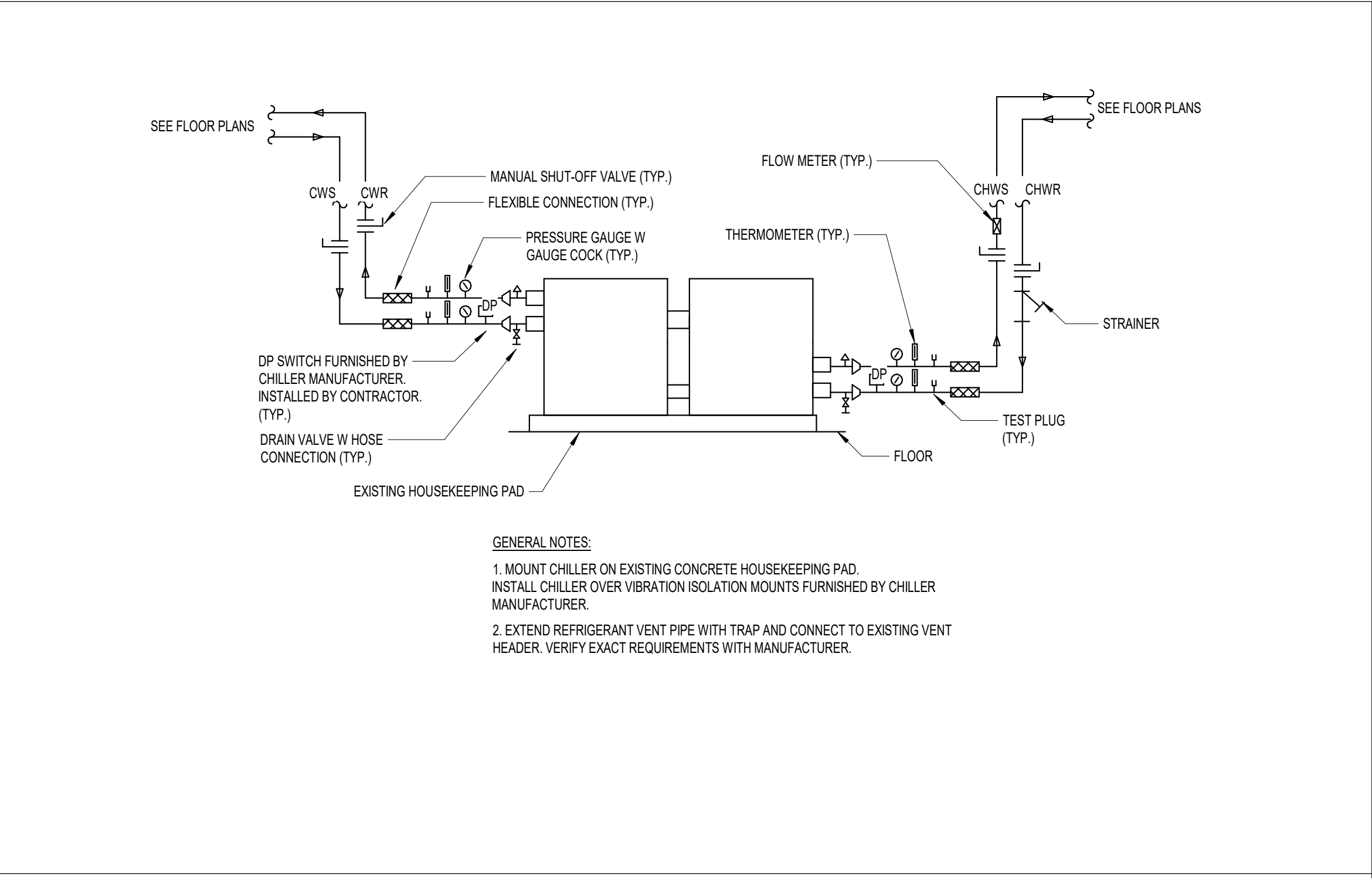
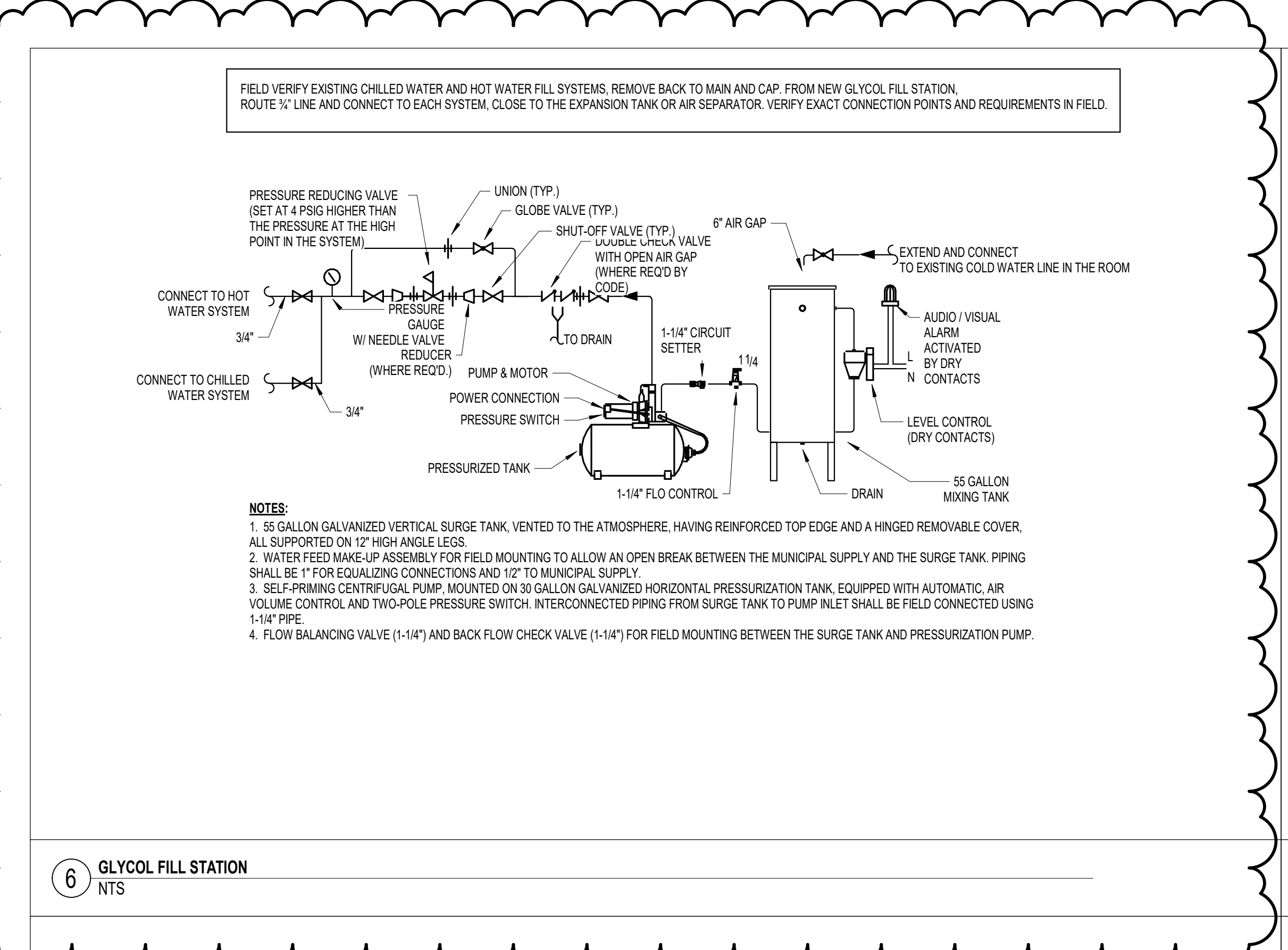
Brush Architects, LLC
 4200 N. Francisco Ave, Chicago, IL 60618
 (312) 925-3070
 Facade Consultant

Gwen Grossman Lighting Design
 53 W. Jackson Blvd, Chicago, IL 60654
 (312) 877-5125
 Lighting Design Consultant

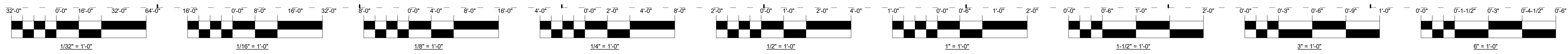
Issue Log

Mark	Description	Date
1	ISSUE FOR BID	11/13/19
3	ADDENDUM #3	12/5/19

PBC Project Name: Legler Regional Library
 PBC Contract No.: C1597
 PBC Project No.: 08310
 Title: MECHANICAL DETAILS



12/5/2019 11:16:05 AM



GENERAL RACEWAY NOTE

1. IN ORDER TO PRESERVE EXISTING PLASTER WALLS AND CEILINGS, INCLUDING ALL DECORATIVE MOLDINGS, CASEWORK, ETC., ELECTRICAL CONTRACTOR SHALL NOT INSTALL ANY EXPOSED CONDUIT RACEWAYS ON ANY EXISTING PLASTER WALLS AND CEILING AS INDICATED ON PLANS. CONTRACTOR IS TO NOTIFY ARCHITECT/ENGINEER OF ANY CONFLICTS AND/OR ISSUES OF INSTALLING THIS SCOPE OF WORK.
2. IN ALL OTHER ROOMS, ELECTRICAL CONTRACTOR SHALL PROVIDE NEW SURFACE MOUNTED METAL RACEWAY SYSTEMS (LEGAND WIREMOLD SINGLE AND/OR DUAL CHANNEL RACEWAY 1800 AND 1700 SERIES INCLUDING GAWN SERIES RACEWAYS COMPLETE WITH ALL SUPPORTS, CONDUIT/BACKBOX CONNECTORS, COUPLINGS, ELBOWS, FLEXIBLE SECTIONS, CONDUIT AND BACKBOX TRANSITION FITTINGS, ETC.) FOR ALL NEW BRANCH WIRING SYSTEMS POWER LIGHTING, LOW VOLTAGE FIRE ALARM, ETC.). PAINT ALL SURFACE MOUNTED METAL RACEWAYS TO MATCH NEW AND EXISTING SURFACE FINISHES.

GENERAL NOTES

1. ALL NEW CONDUITS AND PIPING SHALL BE ROUTED ABOVE THE CEILING. ALL EXPOSED CONDUITS AND PIPING SHALL BE ROUTED WITHIN CLOSETS, OFFICES, CLASSROOMS, AND STORAGE AREAS AS MUCH AS POSSIBLE WITH THE EXCEPTION OF CORRIDORS UNLESS NOTED OTHERWISE. ALL EXPOSED CONDUIT RACEWAYS WITHIN THESE ROOMS OR AREAS SHALL BE SURFACE MOUNTED IN NEW WIREMOLD TYPE RACEWAY.
2. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL BUILDING SYSTEM COMPONENTS THAT ARE IMPACTED BY THE SCOPE OF WORK AND SHALL INCLUDE THE RELOCATION OF THOSE COMPONENTS IN THE PROJECT COST. THIS INCLUDES ALL CONDUIT, WIRE MOLDS, LIGHTING, SWITCHES, FIRE ALARM DEVICES, ETC. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL LOCATION AND MOUNTING HEIGHTS OF ALL ELECTRICAL DEVICES PRIOR TO ROUGH-IN.
3. ALL ELECTRICAL DEVICES, DISCONNECT SWITCHES, STARTERS, JUNCTION BOXES, PULL BOXES AND ASSOCIATED WIRING AND CONDUIT LOCATED ABOVE THE CEILING IN PLENUM AREAS SHALL COMPLY WITH NEC REQUIREMENTS FOR INSTALLATION IN AIR HANDLING PLENUM SPACES. VERIFY EXTENT OF SUCH SPACES WITH DIVISION 25 CONTRACTOR.
4. ALL POWER RECEPTACLE CIRCUITS TO PANEL LP-B UNLESS OTHERWISE NOTED.
5. REFER TO ARCHITECTURAL DRAWINGS A-110 & A-111 TO DIMENSIONAL LOCATE FLOOR BOXES AND FURNITURE POKE-THRU'S.
6. ALL NEW 120V BRANCH POWER AND LIGHTING CIRCUITS SHALL BE FED FROM EXISTING BRANCH CIRCUIT PANELBOARDS. ELECTRICAL CONTRACTOR SHALL PROVIDE NEW BRANCH CIRCUIT BREAKERS WITHIN EXISTING PANELBOARDS AS REQUIRED AND SHALL PROVIDE NEW COMPUTER-GENERATED CIRCUIT DIRECTORIES.
7. ALL EXISTING FAN COIL UNITS SHALL BE REPLACED IN KIND WITH NEW. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ELECTRICAL CONNECTION AND ASSOCIATED LOCAL DISCONNECT SWITCH TO EACH EXISTING FAN COIL UNIT AND PRESERVE AND MAKE SAFE EXISTING BRANCH CIRCUIT. RE-CONNECT NEW FAN COIL UNIT AND PROVIDE NEW LOCAL 120V SINGLE-PHASE DISCONNECTING MEANS. EXTEND EXISTING FAN COIL BRANCH CIRCUIT WITH NEW CONDUIT AND WIRING (2 #12 & 1 #12 GRD. 1/2\"/>
- 8. ALL EXISTING POWERED MECHANICAL EQUIPMENT SCHEDULED FOR REPLACEMENT SHALL BE REPLACED IN KIND WITH NEW. ELECTRICAL CONTRACTOR SHALL DISCONNECT AND REMOVE ELECTRICAL CONNECTION AND ASSOCIATED LOCAL DISCONNECT SWITCH TO EACH EXISTING FAN COIL UNIT AND PRESERVE AND MAKE SAFE EXISTING BRANCH CIRCUIT. RE-CONNECT NEW POWERED MECHANICAL EQUIPMENT AND PROVIDE NEW LOCAL DISCONNECTING MEANS TO MATCH EXISTING. EXTEND EXISTING ASSOCIATED BRANCH CIRCUIT WITH NEW CONDUIT AND WIRING (TO MATCH EXISTING) AND MAKE ALL FINAL CONNECTIONS.

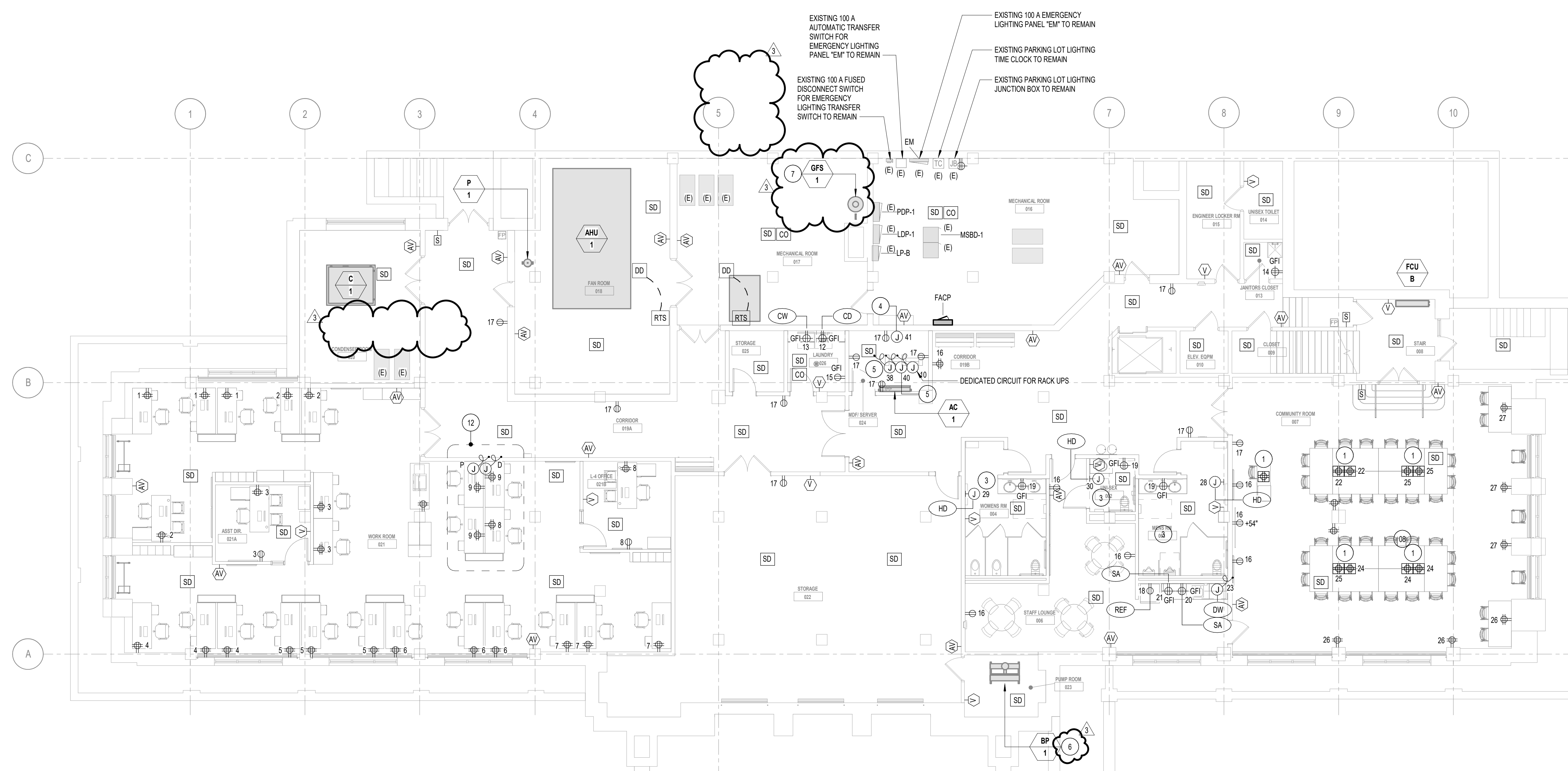
POWER KEYNOTES

1. PROVIDE A RECESSED MOUNTED CHICAGO APPROVED DUAL SERVICE FLOOR BOX DEVICE (RFBFC-02) WITH TAMPER RESISTANT COVER ASSEMBLY (RFBTCR) OR APPROVED EQUAL, SAW CUT EXISTING FLOOR & AB TO ACCOMMODATE NEW FLOOR BOX DEVICE.
2. MOUNT POWER RECEPTACLES AND DATA OUTLETS IN CUSTOM MILLWORK UNDER THE COUNTER AT THIS LOCATION. INSTALL FEEDER CONDUITS FROM SOURCE TO WALL MOUNTED POWER AND DATA JUNCTION BOXES AND ROUTE WIRING IN CONDUIT THROUGH MILLWORK TO EACH BRANCHED RECEPTACLE BACKBOX AND DATA OUTLET. COORDINATE OUTLET AND GROMMET LOCATIONS WITH ELECTRICAL DRAWINGS, ARCHITECT AND MILLWORK CONTRACTOR PRIOR TO ROUGH IN.
3. ALL LAV SINK FAUCETS IN ALL TOILET ROOMS AND RESTROOMS SHALL BE PROVIDED WITH AUTOMATIC SENSORS AND SHALL BE CONNECTED VIA HARD-WIRED, LOW VOLTAGE ELECTRICAL CONNECTIONS. REFER TO DETAIL #1 ON SHEET E-801 FOR ADDITIONAL INFORMATION AND REQUIREMENTS. INSTALL AND WIRE 120/24V TRANSFORMERS FURNISHED BY DIVISION 25 CONTRACTOR AS PART OF THE PLUMBING FIXTURE PACKAGE. PROVIDE SAFETY DISCONNECT SWITCHES. INSTALL TRANSFORMERS IN AN ENCLOSED JUNCTION BOX IN AN ACCESSIBLE LOCATION ABOVE THE CEILING. VERIFY EXACT LOCATION IN FIELD.
4. PROVIDE A DEDICATED 120V BRANCH CIRCUIT WITH 20A-1P CIRCUIT BREAKER WITH (2) CONNECTIONS: ENTRY ACCESS CONTROL POWER SUPPLY PANEL AND LOCK POWER SUPPLY PANEL.
5. PROVIDE A 120V CIRCUIT FOR (8) RACK MOUNTED STANDARD USE RECEPTACLES.
6. EXISTING SIMPLEX WATER BOOSTER PUMP SYSTEM TO BE REPLACED WITH NEW DUPLEX WATER BOOSTER PUMP SYSTEM. DISCONNECT AND REMOVE EXISTING WATER PUMP SYSTEM BRANCH CIRCUIT BACK TO SOURCE. PROVIDE A NEW 60 AMP, 208V, 3-PHASE BRANCH CIRCUIT WITH 4 #4 & 1 #6 GRD., 1 1/2\"/>
- 7. PROVIDE A NEW 20 AMP, 120V, 1-PHASE BRANCH CIRCUIT WITH 2 #12 & 1 #12 GRD., 3/4\"/>

GENERAL ENVIRONMENTAL NOTES

WARNING: VARIOUS COMPONENTS/SURFACES WITHIN THE BUILDING HAVE TESTED ABOVE AND BELOW THE LEAD THRESHOLD OF 1.0 MG/CM2 REGARDLESS OF CONCENTRATIONS. THERE IS A POTENTIAL FOR LEAD DUST GENERATION DURING DRILLING, CORING, PAINTING PREPARATION AND OTHER RENOVATION ACTIVITIES FOR ALL SMALL SCALE DISTURBANCES. THE CONTRACTOR SHALL FACILITATE THE APPROPRIATE MEASURES FOUND IN PROJECT SPECIFICATIONS TO PREVENT DUST MITIGATION TO OTHER PARTS OF THE BUILDING. LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA (1926.62) COMPLIANCE, WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.



1 BASEMENT - ELECTRICAL POWER PLAN
1/8" = 1'-0"

DOB STAMP APPROVAL

CHICAGO PUBLIC LIBRARY

SEAL DATE 12/5/19

Legler Regional Library Renovation
115 S. Pulaski Road
Chicago, IL 60624
CHICAGO PUBLIC LIBRARY
CITY OF CHICAGO, MAYOR RAHM IMMANUEL

Architect of Record:
RATIO
30 West Monroe Street, Suite 500
Chicago, Illinois 60603
312-465-2359
www.ratiodesign.com

TERRA Engineering Ltd.
225 W. Ohio Street, 4th Floor, Chicago, IL 60654
Civil Engineers of Record

Steam-Joglekar, Ltd.
223 W. Jackson Blvd # 1110, Chicago, IL 60606
Structural Engineers of Record

db | HMS
305 W. Erie St #510, Chicago, IL 60654
MEPFP Engineers of Record

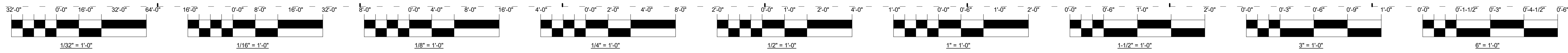
Lerch Bates Inc.
216 S. Jefferson St, Suite LL2, Chicago, IL 60661
Elevator Consultant

Brush Architects, LLC
4200 N. Francisco Ave, Chicago, IL 60618
Facade Consultant

Gwen Grossman Lighting Design
53 W. Jackson Blvd, Chicago, IL 60654
Lighting Design Consultant

Mark	Description	Date
1	ISSUE FOR BID	11/13/19
2	ADDENDUM #2	11/27/19
3	ADDENDUM #3	12/5/19

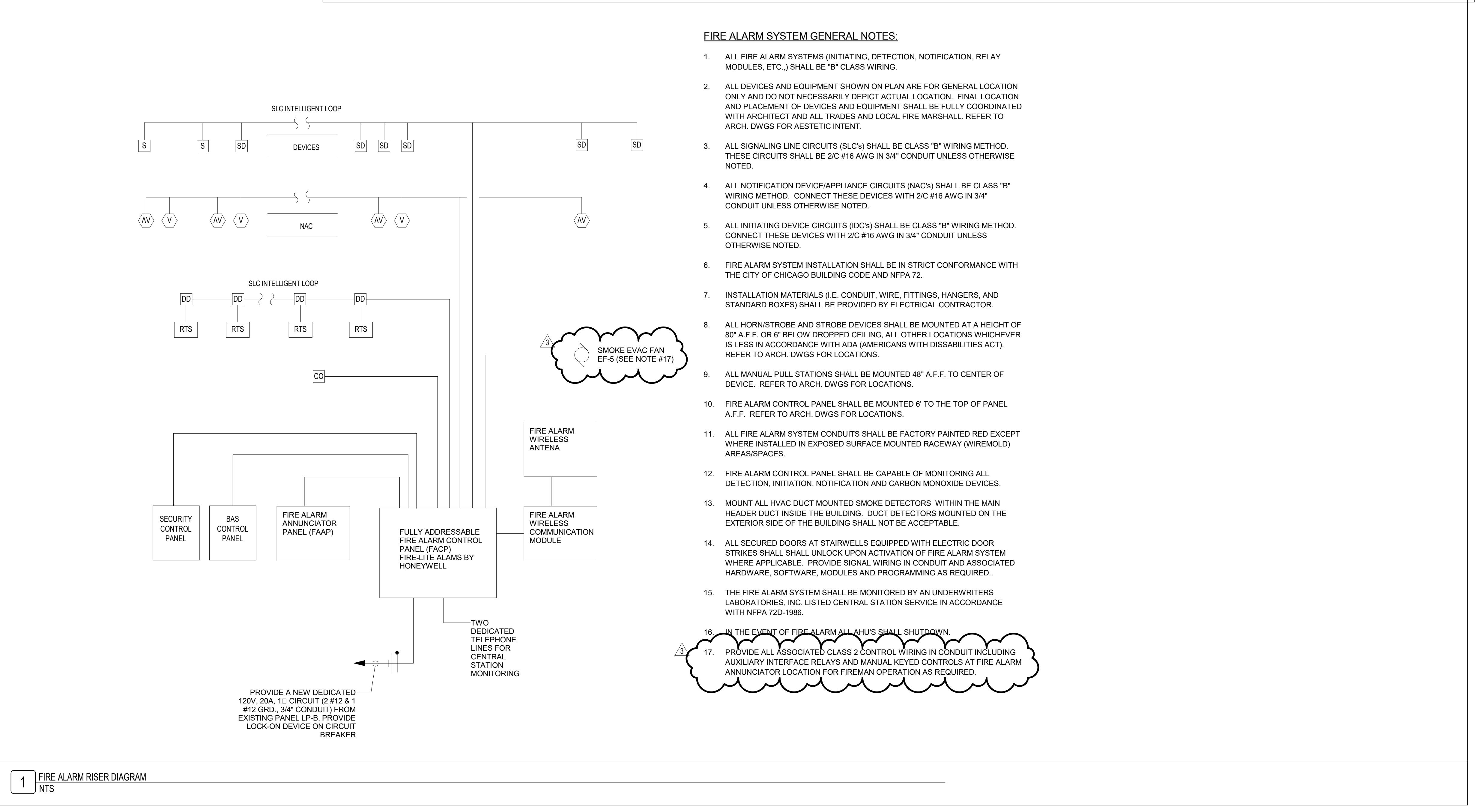
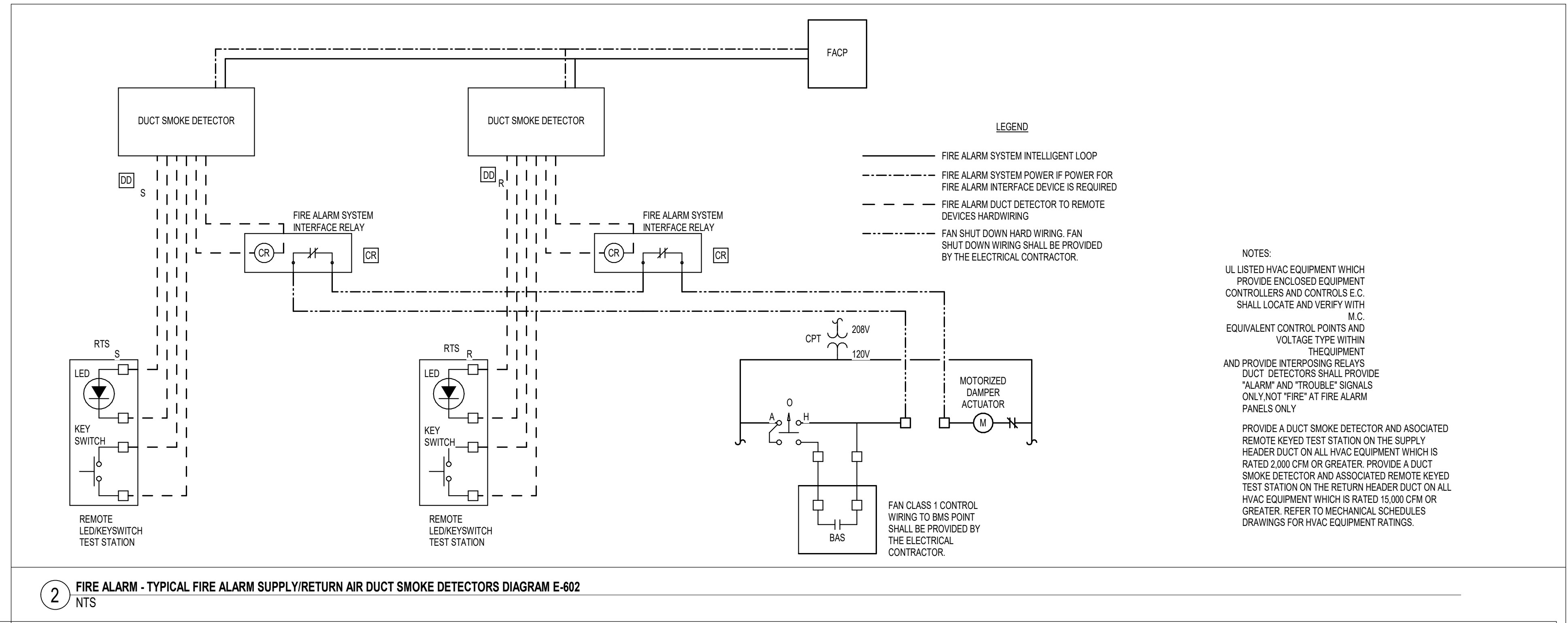
PBC Project Name: Legler Regional Library
PBC Contract No.: C1597
PBC Project No.: 08310
Title: **BASEMENT FLOOR - ELECTRICAL POWER PLAN**



GENERAL ENVIRONMENTAL NOTES

WARNING: VARIOUS COMPONENTS/SURFACES WITHIN THE BUILDING HAVE TESTED ABOVE AND BELOW THE LEAD THRESHOLD OF 10 MCG/M² REGARDLESS OF CONCENTRATIONS. THERE IS A POTENTIAL FOR LEAD DUST GENERATION DURING DRILLING, CORING, PAINTING PREPARATION AND OTHER RENOVATION ACTIVITIES FOR ALL SMALL SCALE DISTURBANCES. THE CONTRACTOR SHALL FACILITATE THE APPROPRIATE MEASURES FOUND IN PROJECT SPECIFICATIONS TO PREVENT DUST MIGRATION TO OTHER PARTS OF THE BUILDING. LEAD-BASED PAINT MAY BE PRESENT WITHIN THE BUILDING. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO TAKE APPROPRIATE SAFETY MEASURES IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL RULES AND REGULATIONS INCLUDING OSHA 1926.62 COMPLIANCE. WASTE CHARACTERIZATION AND WASTE DISPOSAL. ALL WORK WITH SURFACES CONTAINING LEAD-BASED PAINT SHALL BE DONE IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

WARNING: ASBESTOS-CONTAINING BUILDING MATERIALS ARE OR MAY BE PRESENT IN THIS BUILDING. NO PERSON MAY DISTURB ASBESTOS-CONTAINING MATERIALS UNLESS THAT PERSON IS A LICENSED ASBESTOS WORKER OR CONDUCTS SUCH WORK IN ACCORDANCE WITH SPECIFICATIONS CONTAINED IN THE PROJECT DOCUMENTS AND IN COMPLIANCE WITH ILLINOIS DEPARTMENT OF HEALTH RULES AND REGULATIONS.



12/5/2019 11:15:47 AM

Legler Regional Library Renovation
 115 S. Pulaski Road
 Chicago, IL 60624
 CHICAGO PUBLIC LIBRARY
 CITY OF CHICAGO, MAYOR RAHM ELMANUEL

Architect of Record:
RATIO
COPYRIGHT NOTICE: THIS ARCHITECTURAL AND ENGINEERING DRAWING IS THE PROPERTY OF RATIO AND SHALL BE USED ONLY PURSUANT TO THE AGREEMENT WITH RATIO. NO OTHER USE, REPRODUCTION OR DISTRIBUTION MAY BE MADE WITHOUT THE WRITTEN CONSENT OF RATIO. ALL COMMON LAW RIGHTS OF COPYRIGHT AND OTHERWISE ARE HEREBY SPECIFICALLY RESERVED.
 ADDRESS: 30 West Monroe Street, Suite 500, Chicago, Illinois 60603
 PHONE: 312-465-2359
 FAX: 312-465-2359
 WEB: www.ratiodesign.com

TERRA Engineering Ltd.
 225 W. Ohio Street, 4th Floor, Chicago, IL 60654
 (312) 467-0123
 Civil Engineers of Record

Steam-Joglekar, Ltd.
 223 W. Jackson Blvd # 1110, Chicago, IL 60606
 (312) 461-1600
 Structural Engineers of Record

db | HMS
 303 W. Erie St #510, Chicago, IL 60654
 (312) 915-0557
 MEPFP Engineers of Record

Lerch Bates Inc.
 216 S. Jefferson St, Suite LL2, Chicago, IL 60661
 (312) 332-5444
 Elevator Consultant

Brush Architects, LLC
 4200 N. Francisco Ave, Chicago, IL 60618
 (312) 925-3070
 Facade Consultant

Gwen Grossman Lighting Design
 53 W. Jackson Blvd, Chicago, IL 60654
 (312) 877-5125
 Lighting Design Consultant

Issuance

Mark	Description	Date
1	ISSUE FOR BID	11/13/19
3	ADDENDUM #3	12/5/19

PBC Project Name: Legler Regional Library
 PBC Contract No.: C1597
 PBC Project No.: 08310
Electrical Details