

3 MLK SHELL RENOVATION

3 MARTIN LUTHER KING JR. BLVD,
SAVANNAH, GA 31401

P.I.N. #2000307001A

HDBR SUBMISSION

April 11, 2023



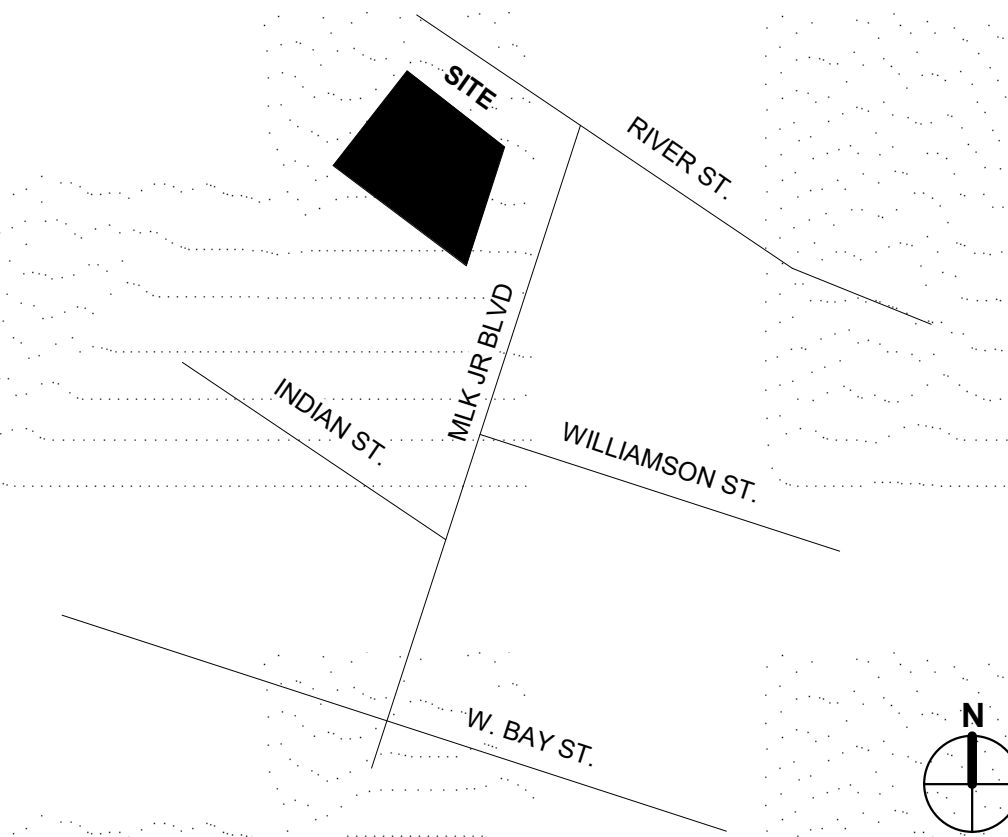
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- A100 FIRST FLOOR PLAN
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- A201 ELEVATIONS
- A300 WALL SECTIONS

PROJECT TEAM:

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VICINITY MAP:



la₂

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Revisions

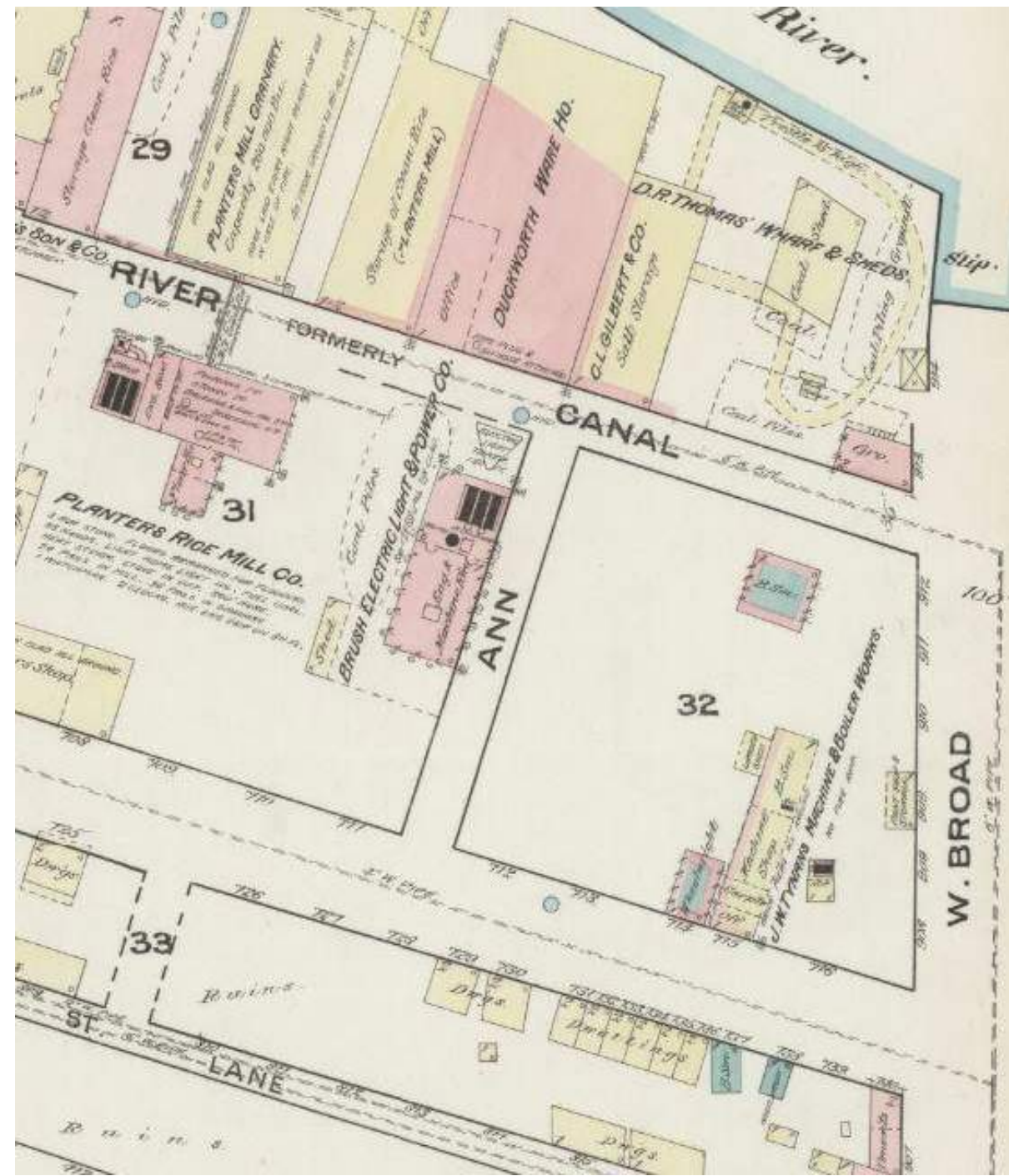
No	Date	Description

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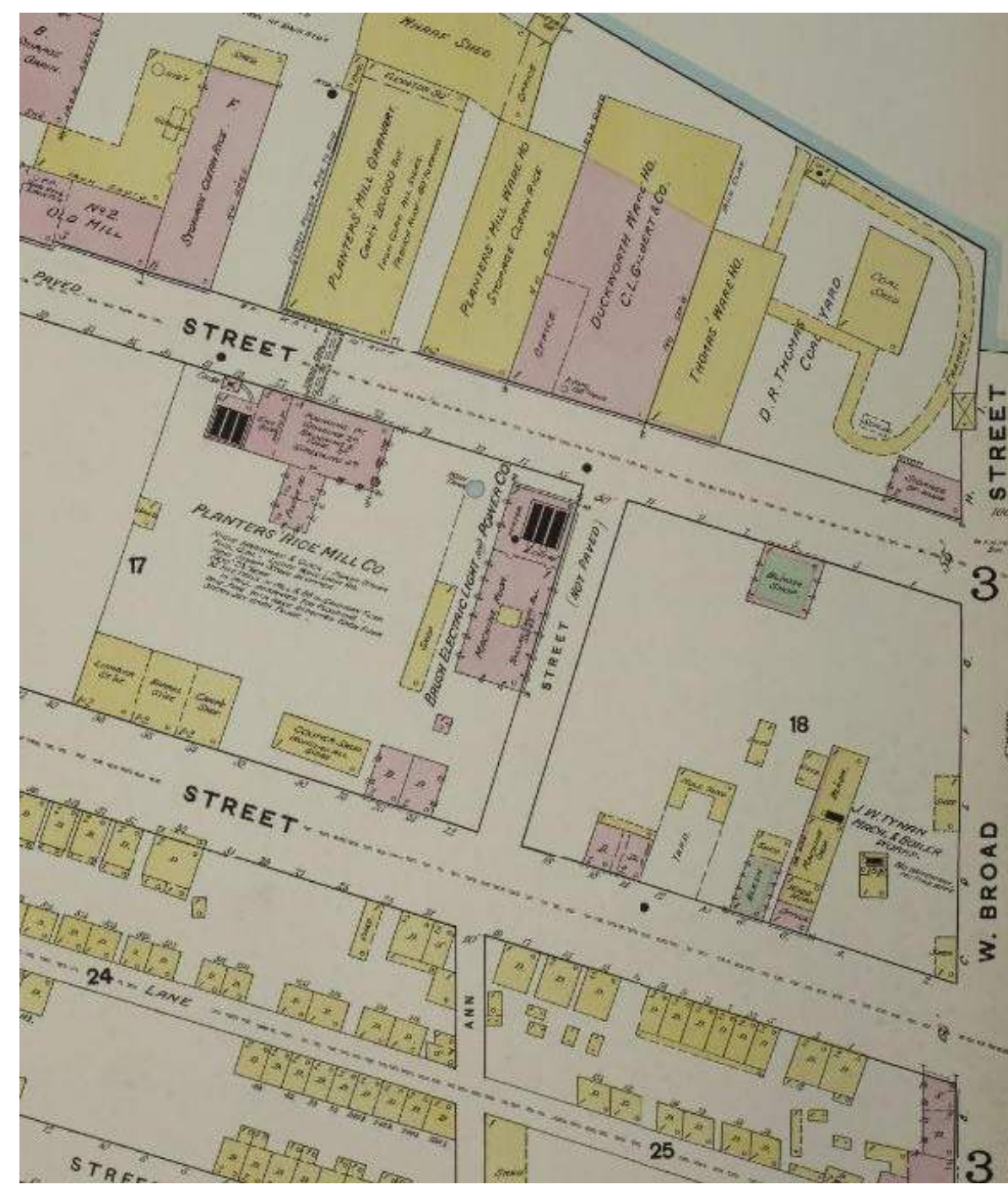
COVER SHEET

Status	HDBR
Date	4/11/2023
Project No.	2016.00
Drawing No.	

G000



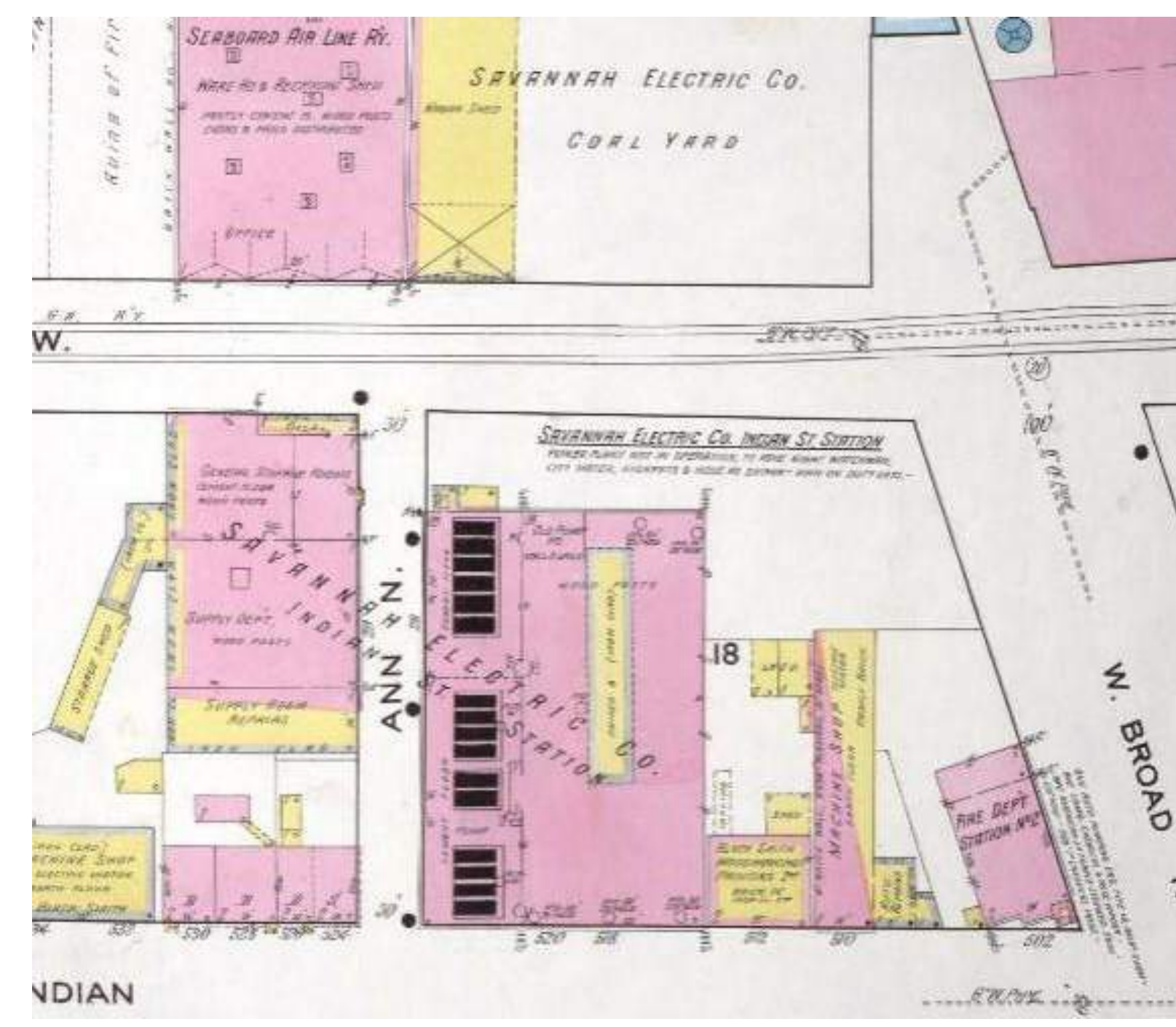
1884 SANBORN MAP



1888 SANBORN MAP



1898 SANBORN MAP



1912 SANBORN MAP



VIEW FROM MARTIN LUTHER KING JR. BLVD.



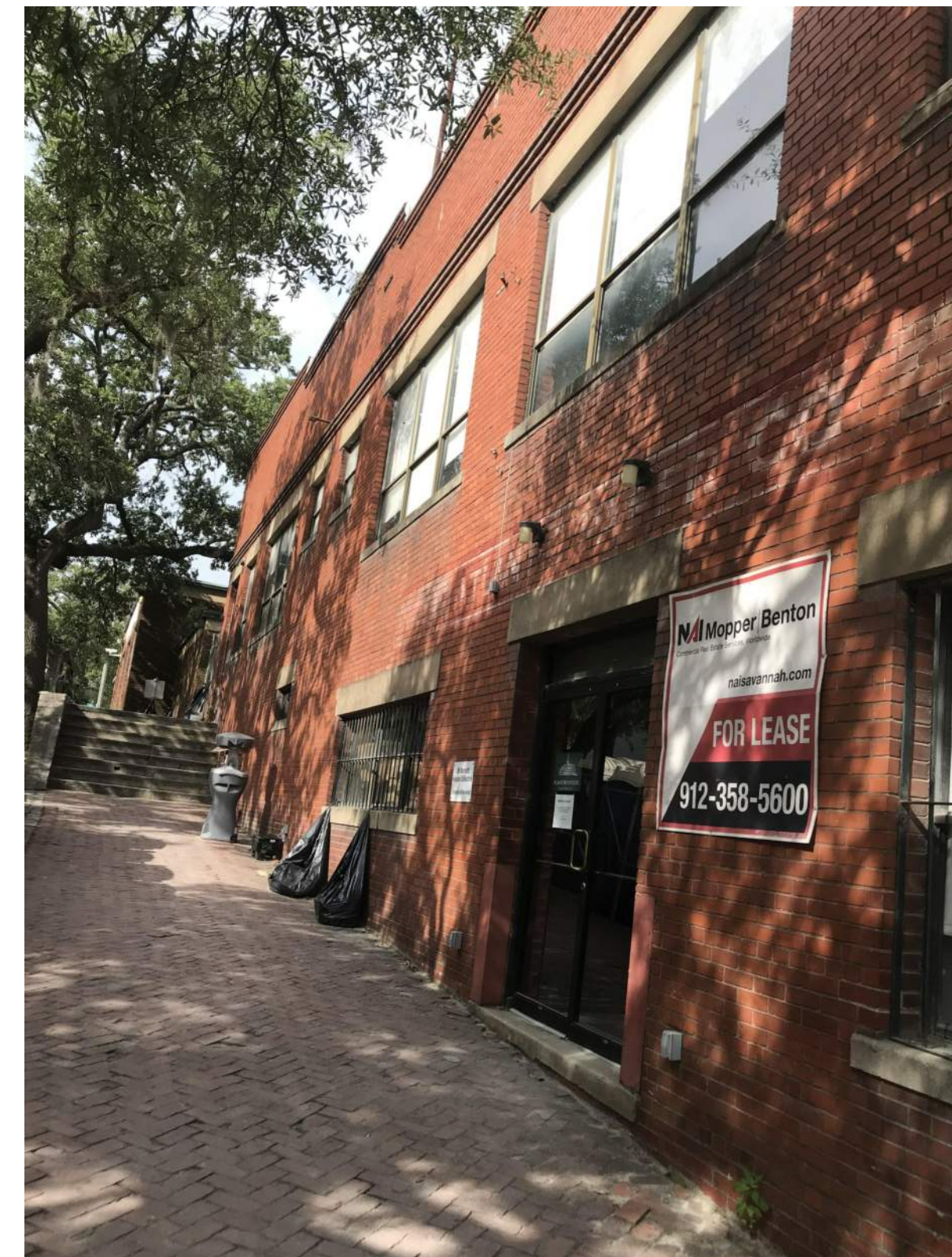
VIEW FROM RIVER STREET



VIEW NORTH FROM SIDEWALK AT MARTIN LUTHER KING JR. BLVD.



VIEW FROM RIVER STREET



VIEW SOUTH FROM MARTIN LUTHER KING JR. BLVD.



VIEW FROM RIVER STREET OF ADJACENT BUILDING TO WEST



VIEW EAST FROM RIVER STREET

PROJECT NARRATIVE

THIS APPLICATION FOR CHANGES TO THE EXISTING BUILDING AT 3 MARTIN LUTHER KING, JR. BLVD. INCLUDES EXTERIOR ALTERATIONS AND REHABILITATION TO HISTORIC MATERIALS AND FEATURES. THE PROPOSED WORK INCLUDES THE FOLLOWING:

REPLACEMENT OF NON-HISTORIC WINDOWS AND ADDITION OF NEW WINDOWS IN INFILLED MASONRY OPENINGS
THE BUILDING'S EXISTING WINDOWS ARE NON-HISTORIC ALUMINUM STOREFRONTS. THIS APPLICATION PROPOSES THAT THEY BE REPLACED WITH DOUBLE HUNG WOOD WINDOWS, IN KEEPING WITH THE HISTORIC CONTEXT OF THE BUILDING. ADDITIONALLY, ORIGINAL MASONRY OPENINGS THAT WERE PREVIOUSLY INFILLED ARE PROPOSED TO BE REOPENED AND HAVE NEW MATCHING WINDOWS INSTALLED. EXISTING SECURITY BARS AT EXISTING WINDOW OPENINGS ARE ALSO PROPOSED TO BE DEMOLISHED.

REPLACEMENT OF NON-HISTORIC ENTRANCES
EXISTING BUILDING ENTRANCES FACING MARTIN LUTHER KING, JR. BLVD. ARE OF NON-HISTORIC ALUMINUM STOREFRONT. NEW ENTRANCES WITH WOOD AND GLASS DOORS AND TRANSOMS ARE PROPOSED. AN EXISTING WINDOW OPENING THAT WAS PREVIOUSLY INFILLED WITH MASONRY IS PROPOSED TO BE EXPANDED TO CREATE AN ADA ACCESSIBLE ENTRANCE FROM THE RIVER STREET LEVEL.

NEW AWNINGS
NEW METAL AWNINGS ARE PROPOSED AT THE EXISTING UPPER AND LOWER ENTRANCES FACING MARTIN LUTHER KING, JR. BLVD. THE AWNING AT THE LOWER ENTRANCE WRAPS AROUND THE NORTHEAST CORNER AT MLK AND RIVER STREET. A THIRD AWNING IS PROPOSED AT THE EXISTING SERVICE ENTRANCE AT THE NORTHWEST CORNER FACING RIVER STREET. ALL AWNINGS ARE PROPOSED TO HAVE SIMILAR BRACKET AND TIE-BACK DETAILS. SEE DETAIL SHEET A300.

GLASS DOOR AT LOADING DOCK
A NEW GLASS SECTIONAL OVERHEAD DOOR IS PROPOSED AT ONE OF THE EXISTING LOADING DOCK OPENINGS FACING RIVER STREET.

PERFORATED METAL CLADDING
AT THE EXISTING FREIGHT ELEVATOR FACING RIVER STREET, NEW CORRUGATED PERFORATED METAL CLADDING IS PROPOSED TO WRAP AROUND THE ELEVATOR SHAFT. THE MATERIAL WILL BE ATTACHED TO A METAL FRAME THAT WOULD THEN BE ATTACHED TO THE MASONRY, MINIMIZING DAMAGE TO THE HISTORIC FABRIC. THE PERFORATED MATERIAL IS INTENDED TO PROVIDE A CONSISTENT SMOOTH SURFACE WHILE STILL REVEALING FEATURES IN THE MASONRY, SUCH AS CORBELING. SEE DETAIL SHEET A300.

ADDITIONAL GENERAL REHABILITATION
RELOCATION AND CENTRALIZATION OF EXISTING ELECTRICAL CONDUIT, METERS, AND PANELS AT THE RIVER STREET FACADE IS PROPOSED TO REDUCE VISUAL CLUTTER.

THE EXISTING WOOD LOADING DOCK AT RIVER STREET IS PROPOSED TO BE REMOVED AND AN EGRESS STAIR AND LANDING IS PROPOSED. SEE DETAIL SHEET G002.

GENERAL CLEANING OF THE MASONRY FACADE IS PROPOSED IN ACCORDANCE WITH THE SECRETARY OF THE INTERIOR'S STANDARDS FOR REHABILITATION. REPOINTING AS NEEDED. MORTAR TO BE TYPE "M", COLOR TO MATCH EXISTING.

NO CHANGES TO THE ROOF MATERIAL OR CONFIGURATION OF ROOFTOP MECHANICAL UNITS IS PROPOSED AT THIS TIME.



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Revisions

No	Date	Description

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PROJECT PHOTOS & NARRATIVE

Status	HDBR
Date	
Project No.	2016.00
Drawing No.	

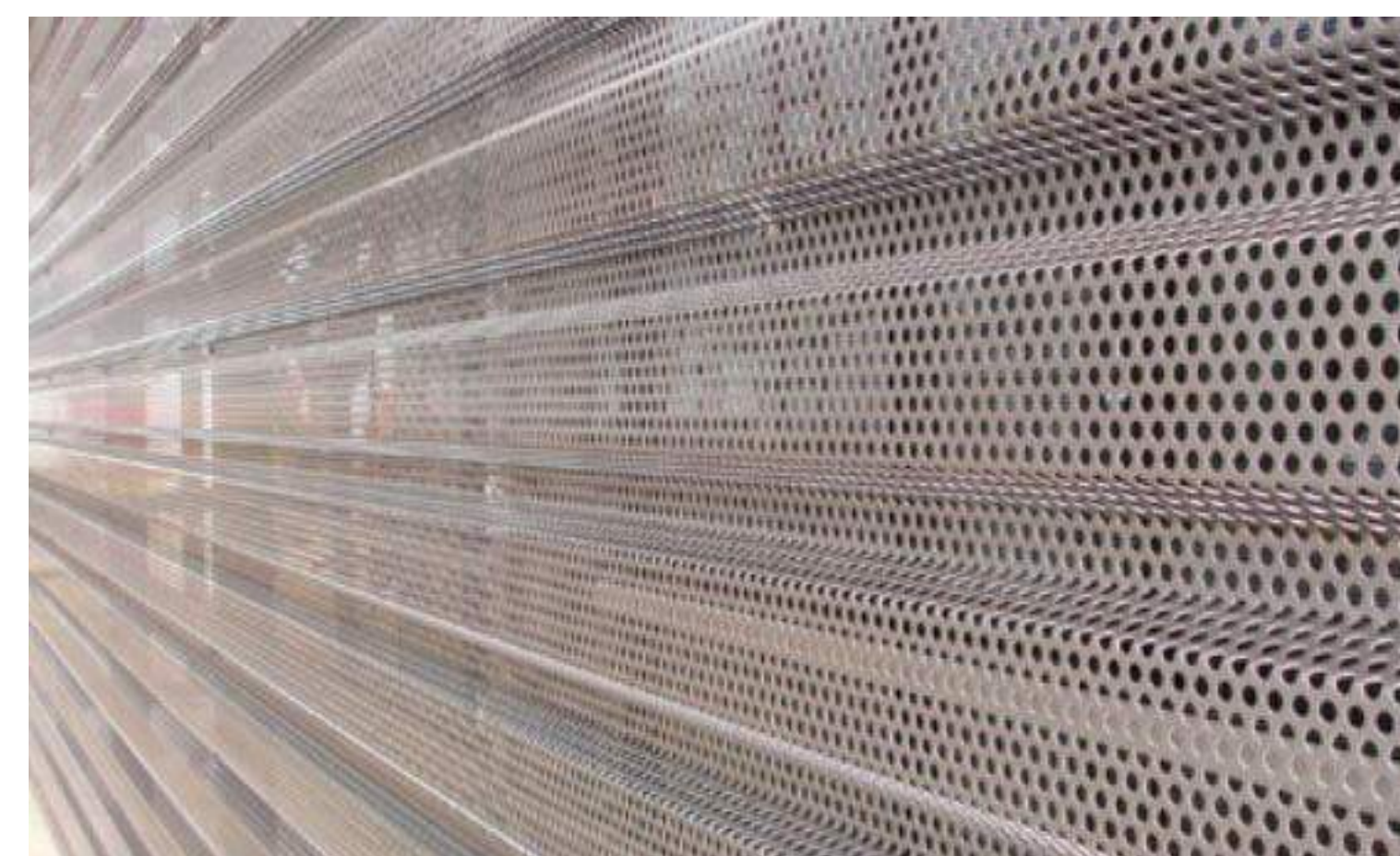
G001



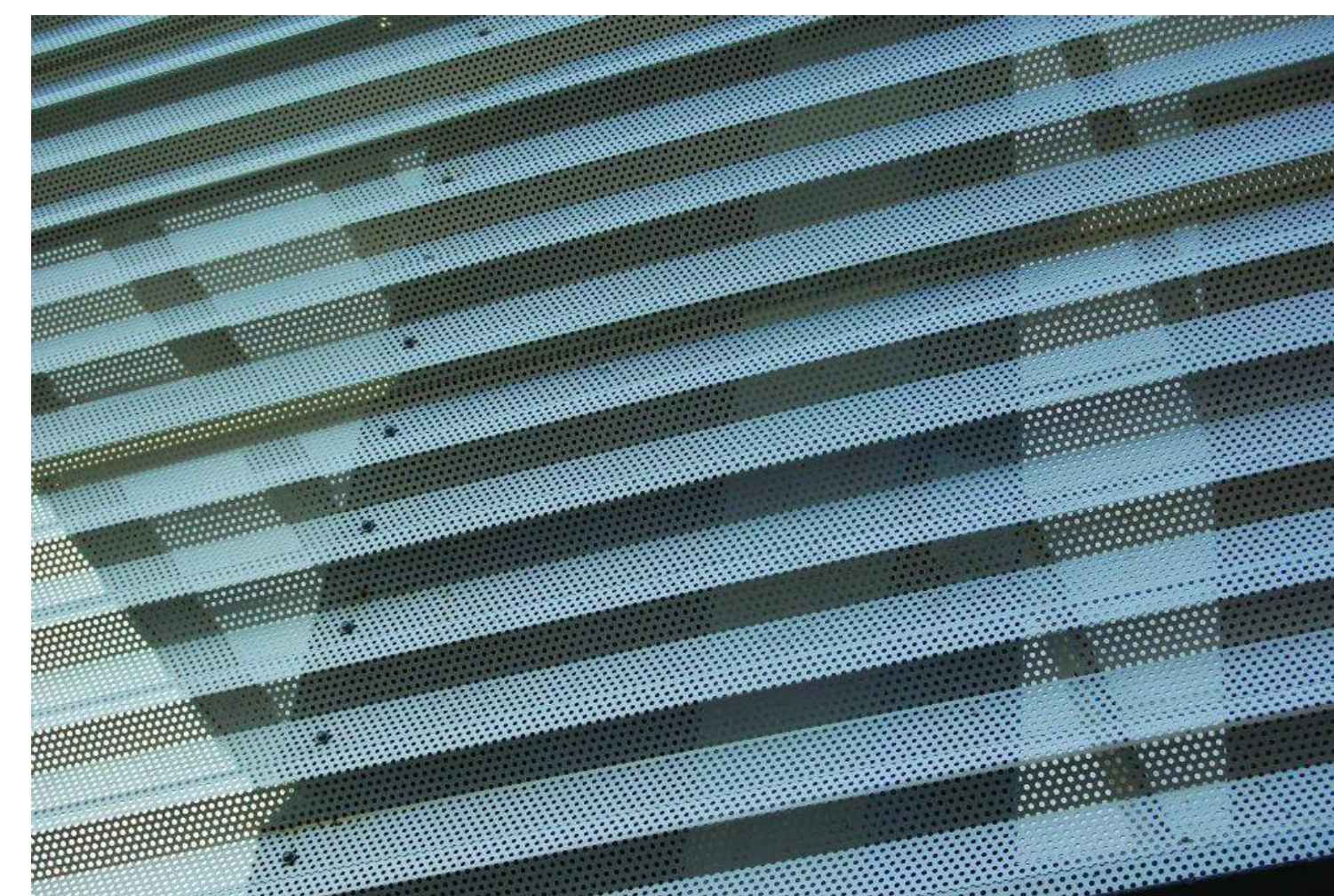
CANOPY BRACKET INSPIRATION



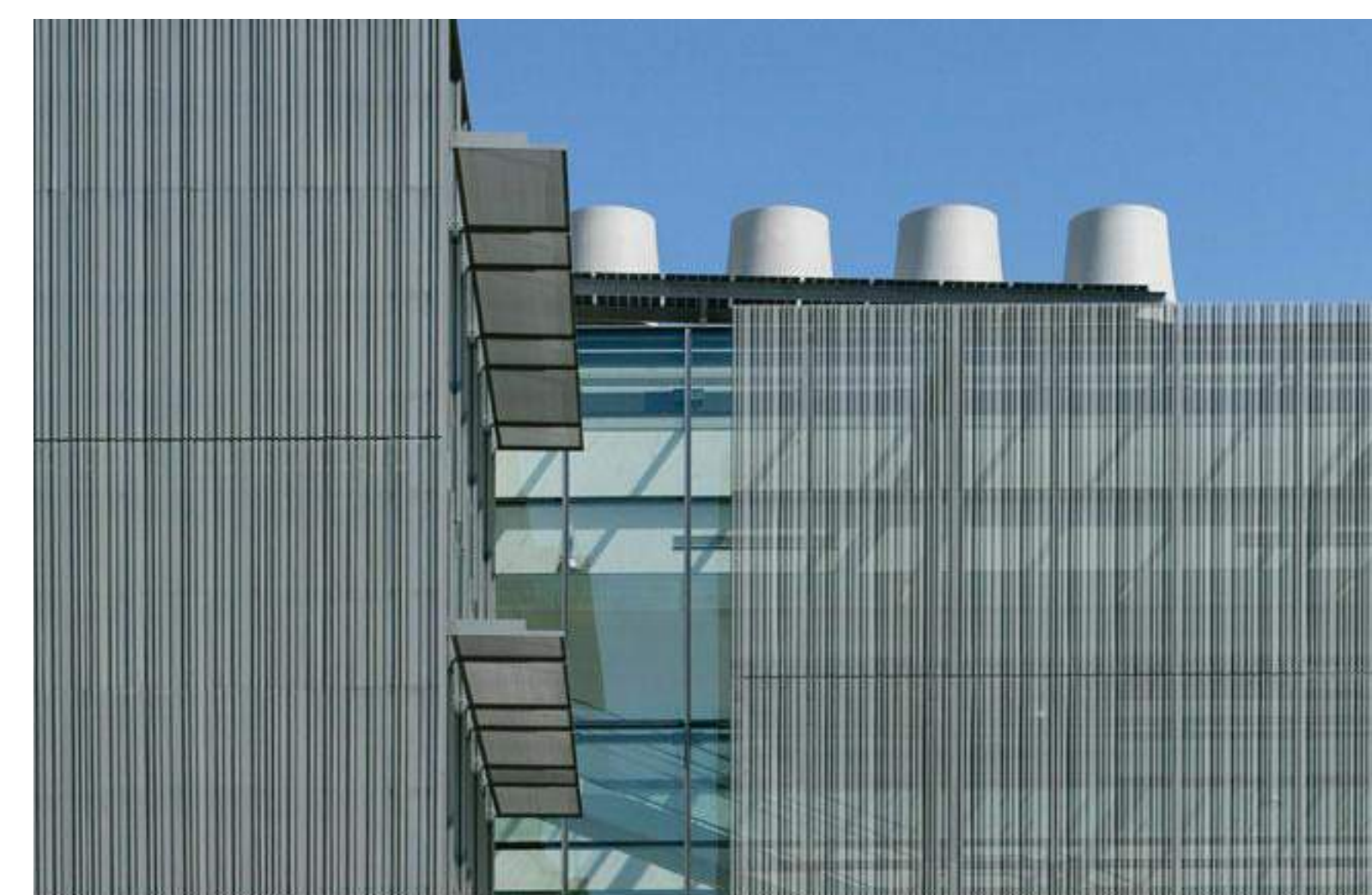
CANOPY BRACKET INSPIRATION



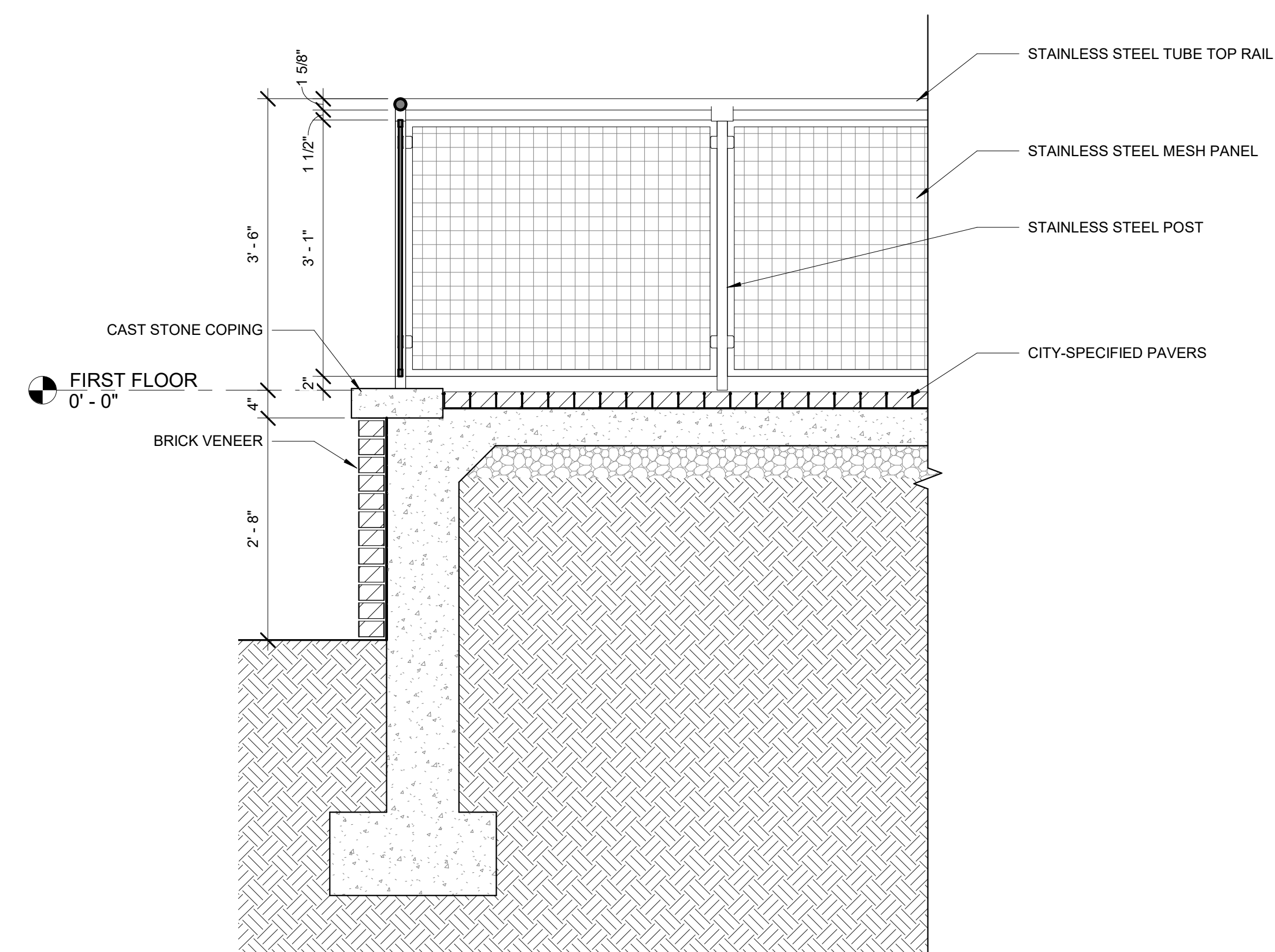
PERFORATED CORRUGATED METAL



PERFORATED CORRUGATED METAL



PERFORATED CORRUGATED METAL INSPIRATION



STAIR LANDING AND GUARDRAIL DETAIL 3/4" = 1'-0"

PROPOSED MATERIALS

WOOD DOUBLE HUNG WINDOWS
 Marvin Ultimate Wood - DH SGL windows
 Color - Sherwin Williams #SW 6258 Tricorn Black

ENTRANCE DOORS AND TRANSOMS
 Custom Sapele Wood and Glass Entrance, Single Glazed
 Color - Sherwin Williams #SW 6258 Tricorn Black

METAL AWNINGS
 Custom configuration
 Standing Seam Metal Roof over Metal Brackets
 See Detail, Sheet A300
 Bracket Color - Sherwin Williams #SW 6258 Tricorn Black

GLASS SECTIONAL OVERHEAD DOOR
 Overhead Door Company
 Aluminum Glass Doors 511
 Color - #RAL 8022 Black

PERFORATED METAL PANELS
 Hendrick Architectural, Perforated Corrugated Metal Panel
 Profile - MFR 160, Color - Slate Grey



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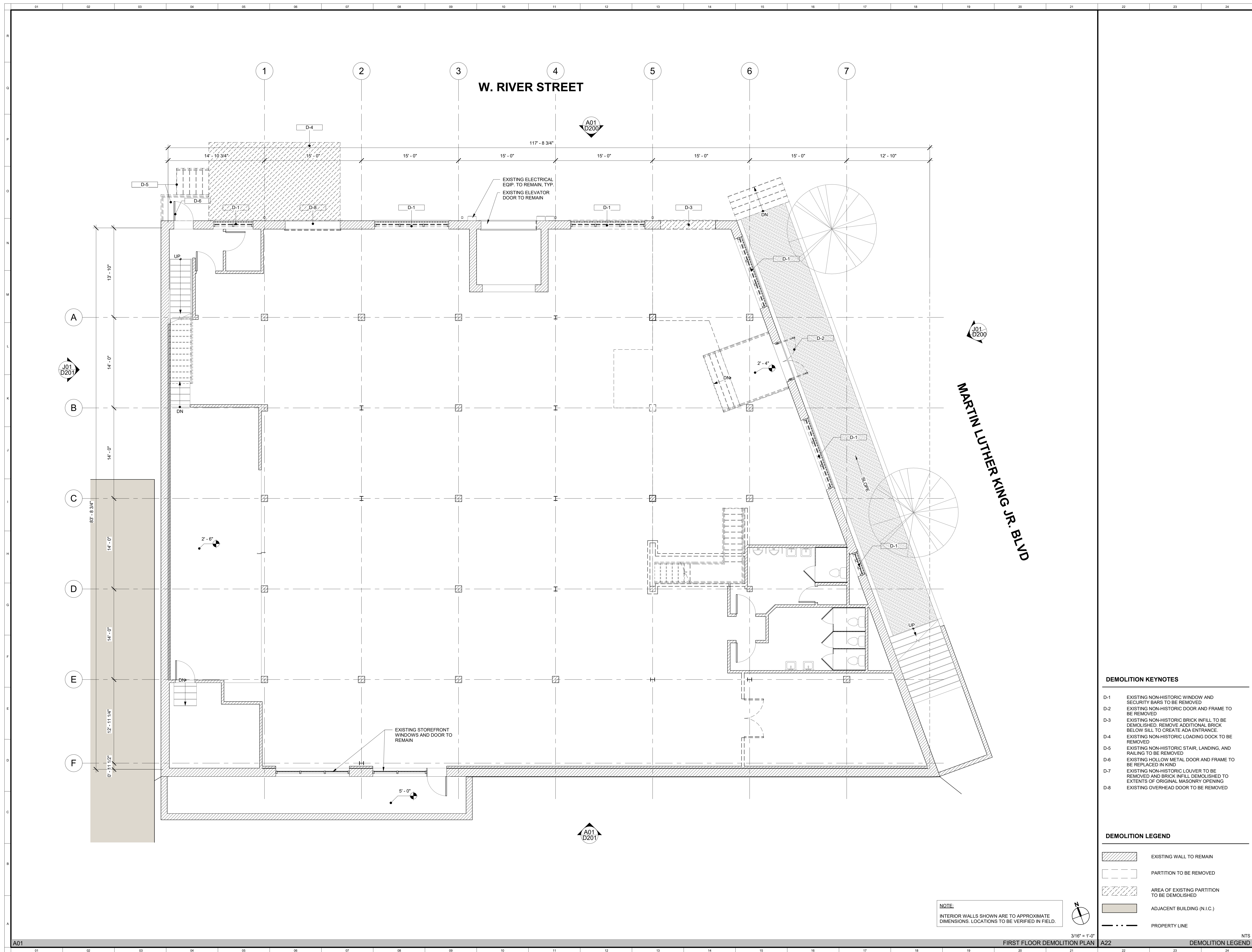
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MATERIALS

Status	HDBR
Date	
Project No.	2016.00
Drawing No.	

G002



NOTE:
INTERIOR WALLS SHOWN ARE TO APPROXIMATE DIMENSIONS. LOCATIONS TO BE VERIFIED IN FIELD.

- DEMOLITION KEYNOTES**
- D-1 EXISTING NON-HISTORIC WINDOW AND SECURITY BARS TO BE REMOVED
 - D-2 EXISTING NON-HISTORIC DOOR AND FRAME TO BE REMOVED
 - D-3 EXISTING NON-HISTORIC BRICK INFILL TO BE DEMOLISHED. REMOVE ADDITIONAL BRICK BELOW SILL TO CREATE ADA ENTRANCE.
 - D-4 EXISTING NON-HISTORIC LOADING DOCK TO BE REMOVED
 - D-5 EXISTING NON-HISTORIC STAIR, LANDING, AND RAILING TO BE REMOVED
 - D-6 EXISTING HOLLOW METAL DOOR AND FRAME TO BE REPLACED IN KIND
 - D-7 EXISTING NON-HISTORIC LOUVER TO BE REMOVED AND BRICK INFILL DEMOLISHED TO EXTENTS OF ORIGINAL MASONRY OPENING
 - D-8 EXISTING OVERHEAD DOOR TO BE REMOVED

- DEMOLITION LEGEND**
- EXISTING WALL TO REMAIN
 - PARTITION TO BE REMOVED
 - AREA OF EXISTING PARTITION TO BE DEMOLISHED
 - ADJACENT BUILDING (N.I.C.)
 - PROPERTY LINE

FIRST FLOOR DEMOLITION PLAN 3/16" = 1'-0" A22 NTS DEMOLITION LEGEND



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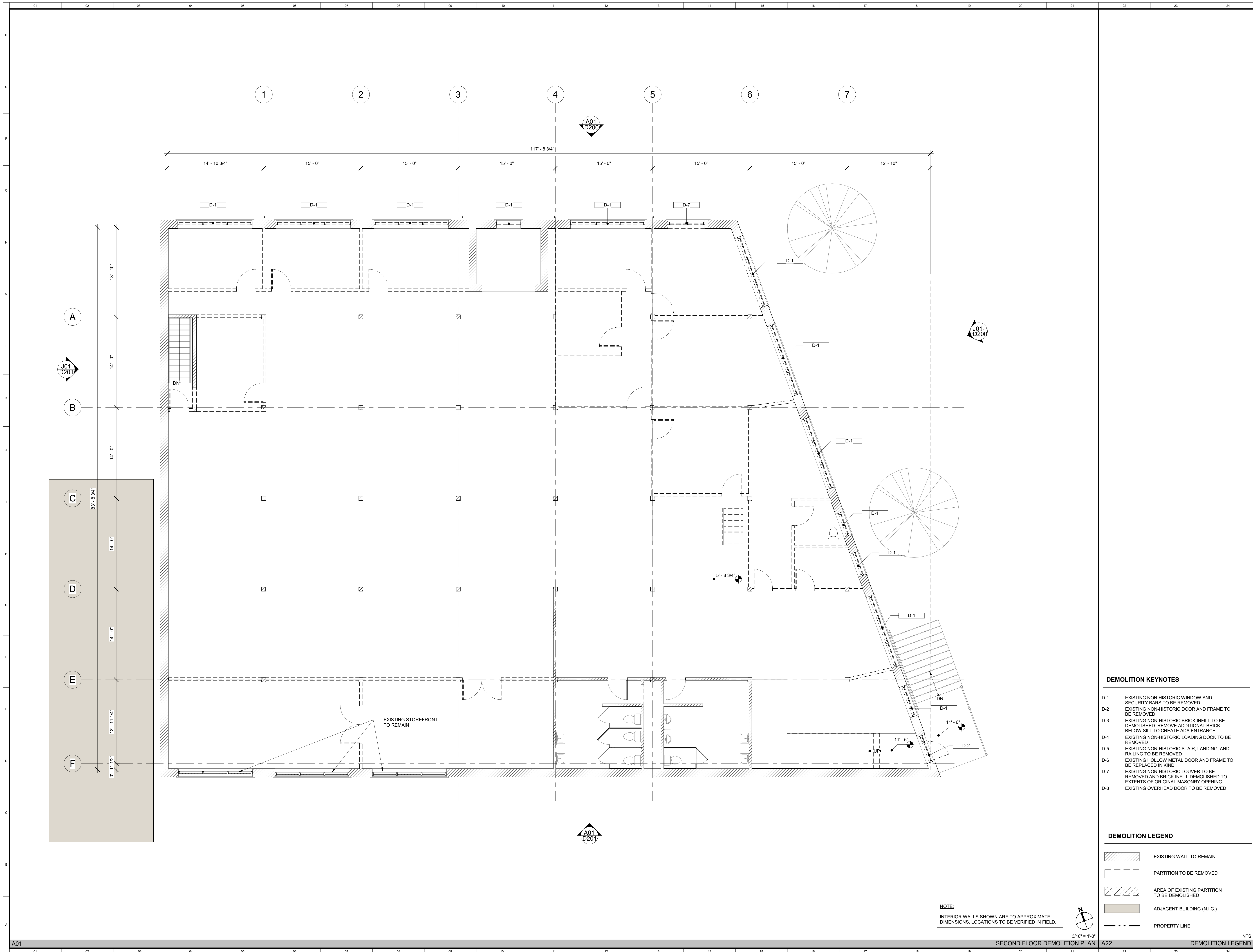
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FIRST FLOOR DEMOLITION PLAN

Status HDBR
Date _____
Project No. 2016.00
Drawing No. _____

D100



DEMOLITION KEYNOTES

- D-1 EXISTING NON-HISTORIC WINDOW AND SECURITY BARS TO BE REMOVED
- D-2 EXISTING NON-HISTORIC DOOR AND FRAME TO BE REMOVED
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- D-8 EXISTING OVERHEAD DOOR TO BE REMOVED

DEMOLITION LEGEND

- EXISTING WALL TO REMAIN
- PARTITION TO BE REMOVED
- AREA OF EXISTING PARTITION TO BE DEMOLISHED
- ADJACENT BUILDING (N.I.C.)
- PROPERTY LINE

NOTE:
INTERIOR WALLS SHOWN ARE TO APPROXIMATE DIMENSIONS. LOCATIONS TO BE VERIFIED IN FIELD.



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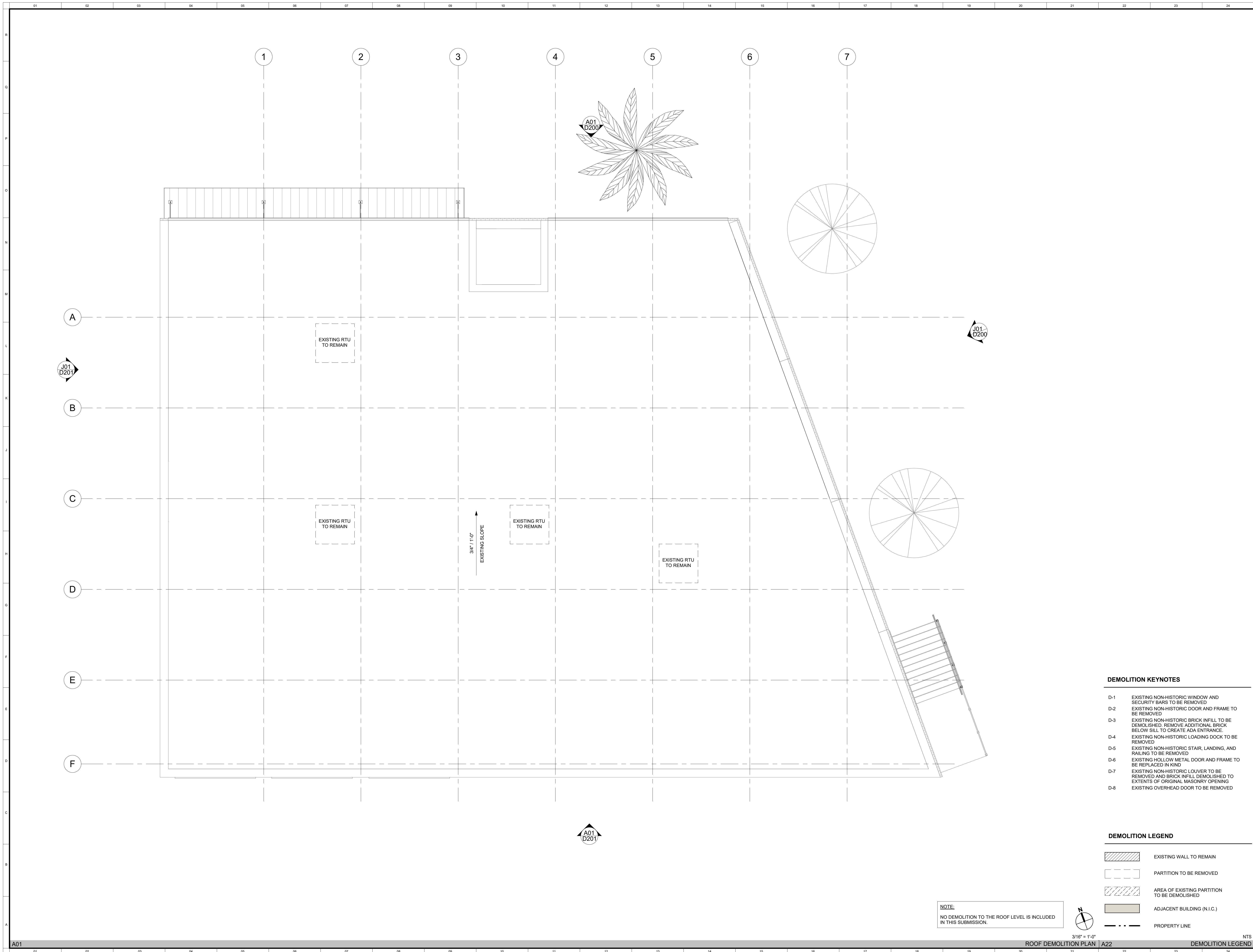
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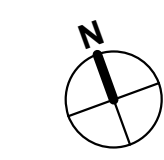
SECOND FLOOR DEMOLITION PLAN

Status HDBR
Date _____
Project No. 2016.00
Drawing No. _____

D101



NOTE:
NO DEMOLITION TO THE ROOF LEVEL IS INCLUDED
IN THIS SUBMISSION.



DEMOLITION KEYNOTES

- D-1 EXISTING NON-HISTORIC WINDOW AND SECURITY BARS TO BE REMOVED
- D-2 EXISTING NON-HISTORIC DOOR AND FRAME TO BE REMOVED
- D-3 EXISTING NON-HISTORIC BRICK INFILL TO BE DEMOLISHED. REMOVE ADDITIONAL BRICK BELOW SILL TO CREATE ADA ENTRANCE.
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- D-8 EXISTING OVERHEAD DOOR TO BE REMOVED

DEMOLITION LEGEND

- EXISTING WALL TO REMAIN
- PARTITION TO BE REMOVED
- AREA OF EXISTING PARTITION TO BE DEMOLISHED
- ADJACENT BUILDING (N.I.C.)
- PROPERTY LINE



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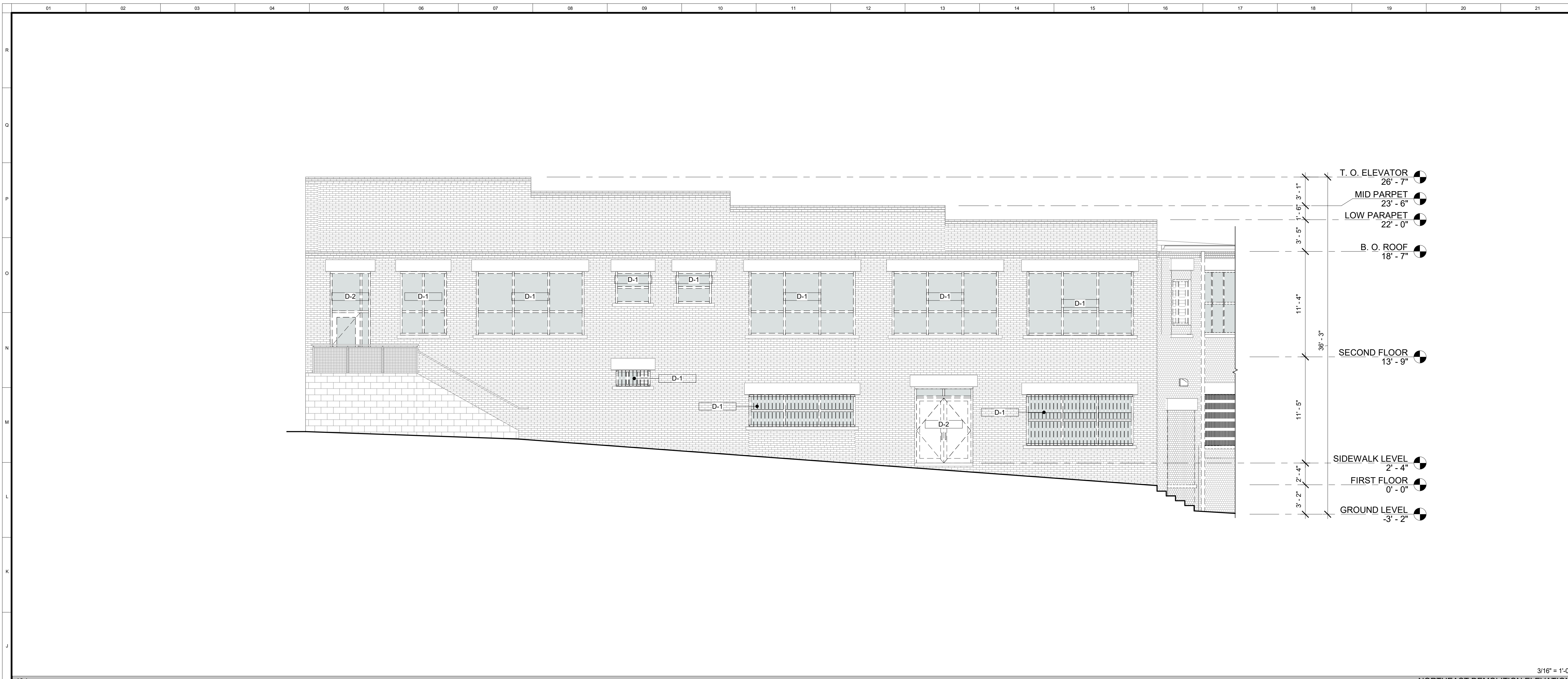
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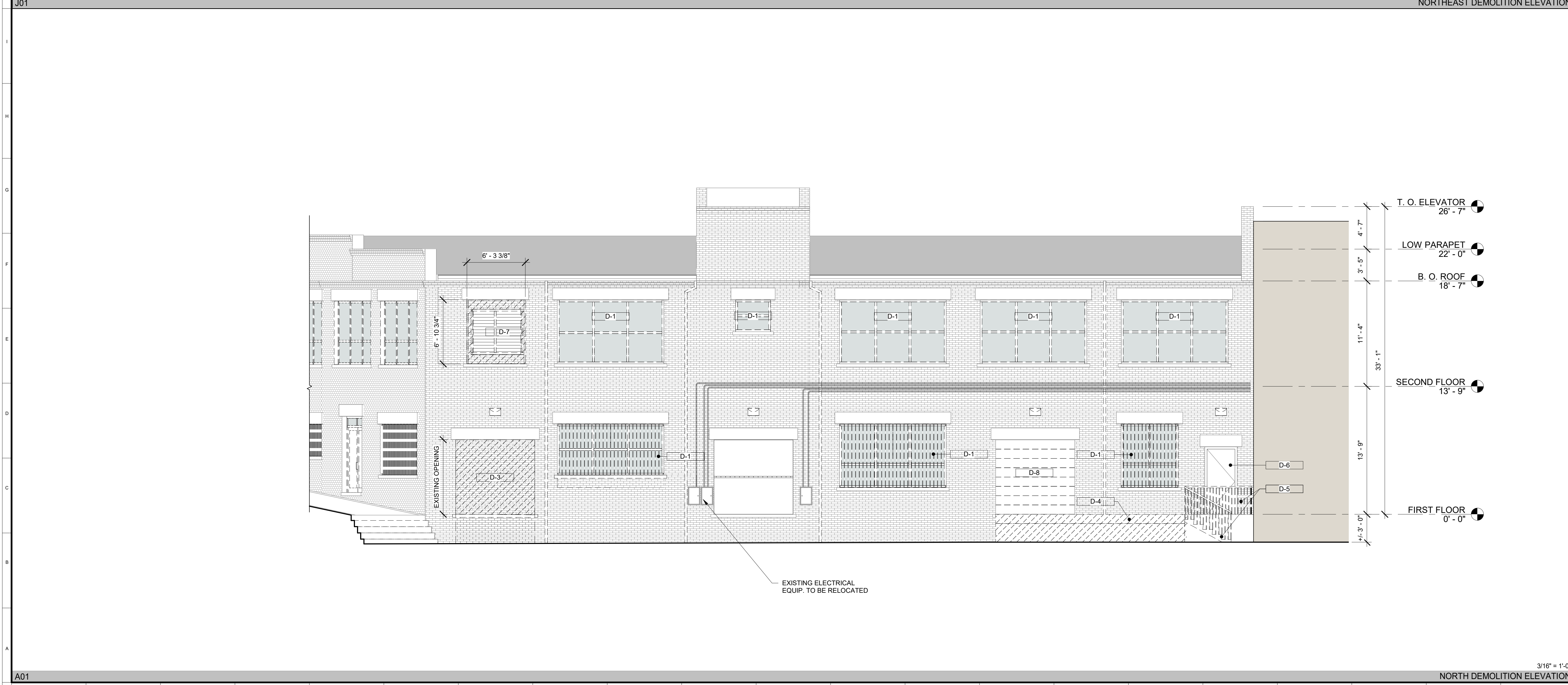
ROOF DEMOLITION PLAN

Status HDBR
Date
Project No. 2016.00
Drawing No.

D102



3/16" = 1'-0"
NORTHEAST DEMOLITION ELEVATION



3/16" = 1'-0"
NORTH DEMOLITION ELEVATION

DEMOLITION KEYNOTES

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- D-8 EXISTING OVERHEAD DOOR TO BE REMOVED

DEMOLITION LEGEND

- EXISTING WALL TO REMAIN
- PARTITION TO BE REMOVED
- AREA OF EXISTING PARTITION TO BE DEMOLISHED
- ADJACENT BUILDING (N.I.C.)
- PROPERTY LINE



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Revisions

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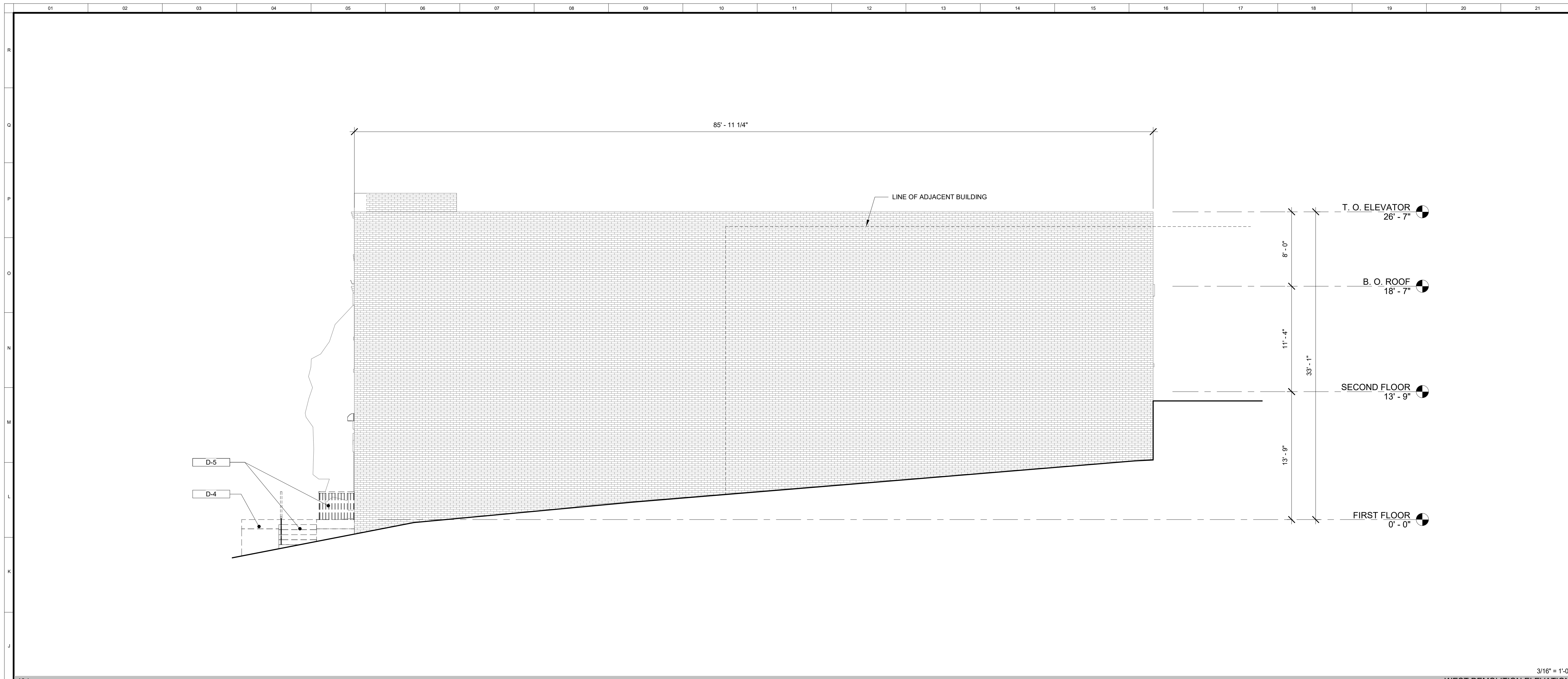
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DEMOLITION ELEVATIONS

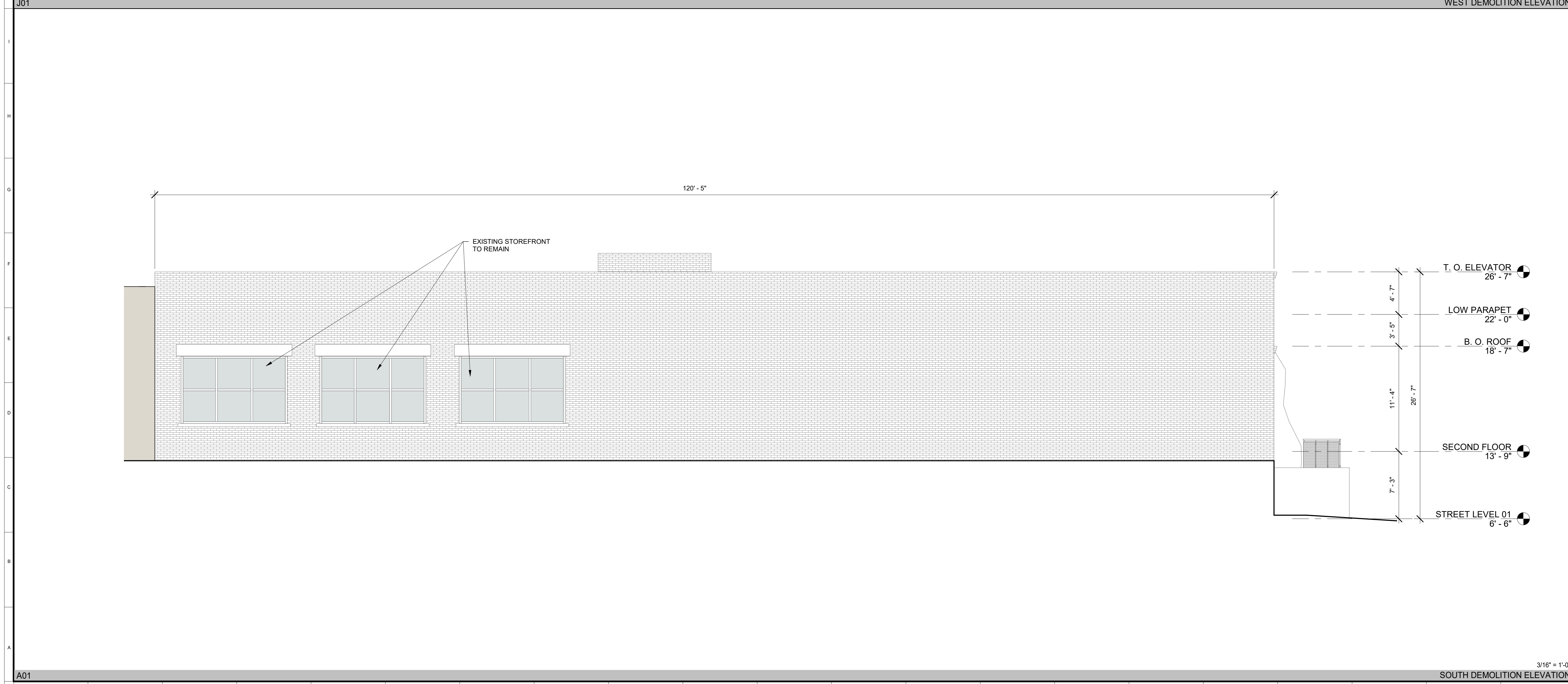
Status HDBR
Date
Project No. 2016.00
Drawing No.

D200

NTS
DEMOLITION LEGEND



3/16" = 1'-0"
WEST DEMOLITION ELEVATION



3/16" = 1'-0"
SOUTH DEMOLITION ELEVATION

DEMOLITION KEYNOTES

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DEMOLITION LEGEND

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DEMOLITION ELEVATIONS

Status _____ HDBR
Date _____
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Drawing No. _____

D201

NTS
DEMOLITION LEGEND

W. RIVER STREET

118'-10"

MARTIN LUTHER KING JR. BLVD

FUTURE TENANT SPACE

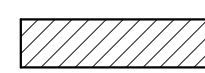

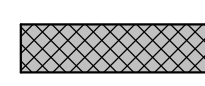
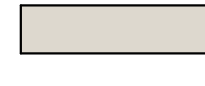
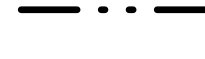
FLOOR PLAN KEYNOTES

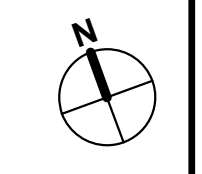
- P-1 NEW DOUBLE HUNG WOOD WINDOW IN EXISTING MASONRY OPENING
- P-2 NEW DOOR AND FRAME IN EXISTING MASONRY OPENING
- P-3 NEW DOOR AND FRAME IN INFILLED MASONRY OPENING. MASONRY REMOVED TO CREATE ACCESSIBLE ENTRANCE
- P-4 NEW CONCRETE LOADING DOCK PLATFORM
- P-6 NEW HOLLOW METAL DOOR AND FRAME. REPLACED IN KIND
- P-8 NEW PERFORATED METAL PANELS OVER ALUMINUM FRAME ATTACHED TO EXISTING ELEVATOR SHAFT
- P-10 NEW CITY-SPECIFIED BRICK PAVERS
- P-11 STAINLESS STEEL HANDRAIL
- P-12 CAST-IN-PLACE STAIR TREADS

GENERAL FLOOR PLAN NOTES

1. SEE LIFE SAFETY PLANS FOR WALL, FLOOR/CEILING, AND SHAFT FIRE RATED ASSEMBLY LOCATIONS.
2. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. REFER TO BUILDING PLANS AND ELEVATIONS FOR CONFIGURATION OF EXTERIOR WINDOWS, DOORS, BALCONIES AND WALL TYPES.
4. CONTRACTOR TO PROVIDE AND INSTALL ALL ACCESS DOORS WHERE REQUIRED FOR ACCESS AND SERVICEABILITY OF ALL BUILDING EQUIPMENT AND SYSTEMS. ALL ACCESS PANELS IN RATED PARTITIONS TO MEET OR EXCEED THE PARTITION RATING.
5. PATCH AND REPAIR ALL INCIDENTAL FLOOR HOLES WITH MATERIAL TO MATCH. PATCH ALL CONCRETE FLOORS TO CREATE SMOOTH UNIFORM FINISH TO ACCEPT FINISH FLOOR MATERIAL. REFER TO SPECIFICATIONS FOR TECHNICAL NOTES ON REPAIR, REFINISHING, AND CLEANING.
6. PATCH, SCRAPE, SAND AND PAINT ALL INTERIOR FINISHED SURFACES INCLUDING GYP. BOARD, TONGUE AND GROOVE CEILINGS, WINDOWS, CEILING, TRIM, RAILINGS, FLOORS, ETC. TO ALLOW FOR SMOOTH UNIFORM FINISH WITHIN THE PROJECT AREA. DO NOT PAINT ANY FACTORY FINISHED ITEMS. PAINT ALL PREVIOUSLY PAINTED INTERIOR SURFACES. ARCHITECT TO SELECT ALL COLORS. SEE SPECIFICATION FOR PAINTING INSTRUCTIONS.
7. PATCH AND REPAIR ALL VOIDS OR OPENINGS IN ALL EXPOSED PLASTER WALLS TO ALLOW FOR SMOOTH UNIFORM FINISH.
8. PROVIDE FACTORY APPLIED BRICK MOULD ON ALL REPLACEMENT WINDOWS IN EXISTING MASONRY OPENINGS.
9. 4" MIN. SETBACK AT ALL WINDOW AND DOOR FRAMES.
10. WINDOW MUNTINS TO BE 7/8" MINIMUM WIDTH.

FLOOR PLAN LEGEND

-  EXISTING WALL TO REMAIN
-  NEW PARTITION
-  NEW MASONRY WALL
-  ADJACENT BUILDING (N.I.C.)
-  PROPERTY LINE



3/16" = 1'-0"
FIRST FLOOR

GENERAL FLOOR PLAN NOTES

3 MLK SHELL RENOVATION

3 MARTIN LUTHER KING JR. BLVD.
SAVANNAH, GA 31401

BOB TURNER

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SAVANNAH, GA 31410

Revisions

No Date Description

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FIRST FLOOR PLAN

Status HDBR
Date
Project No. 2016.00
Drawing No.

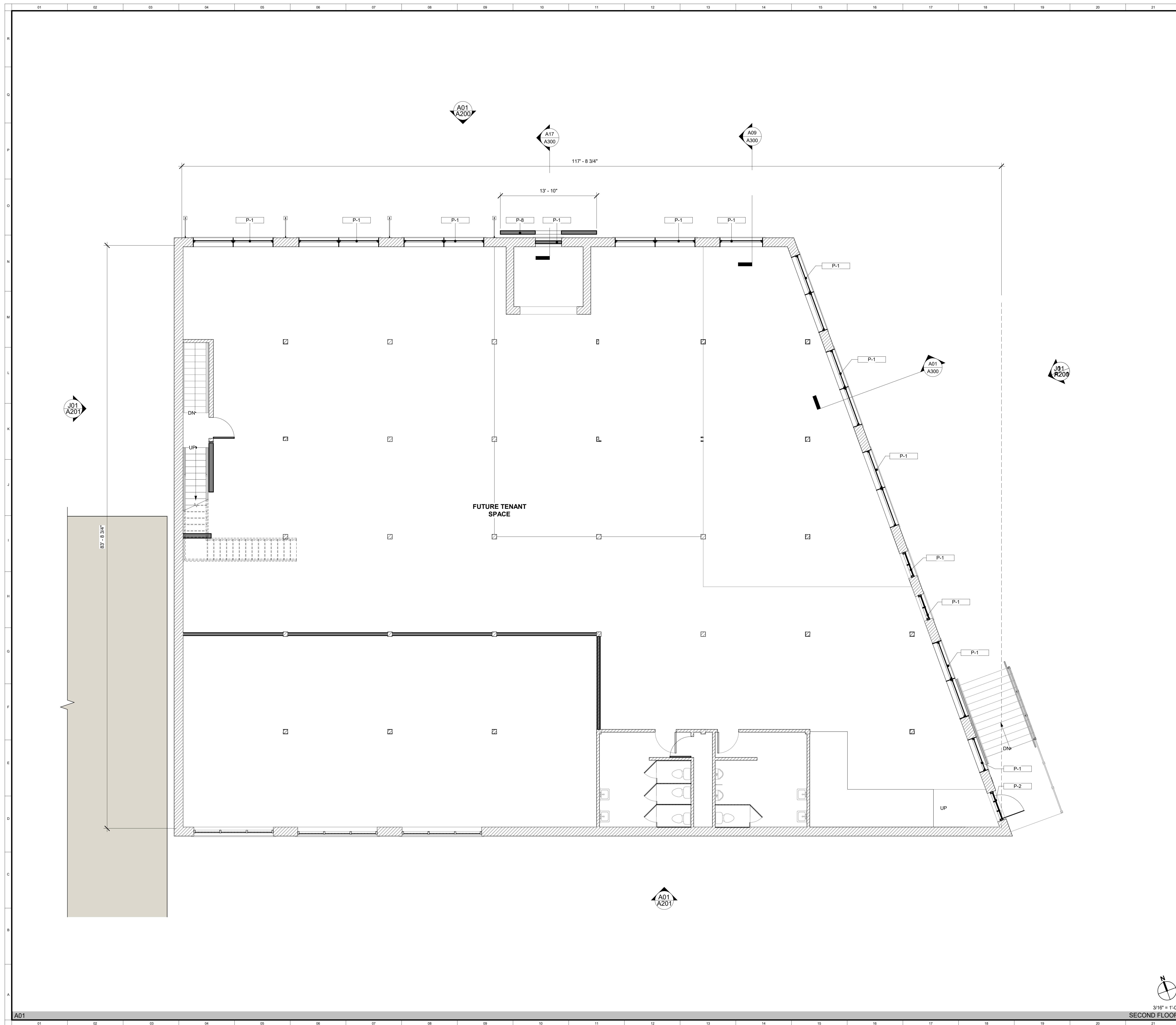
A100



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FLOOR PLAN KEYNOTES

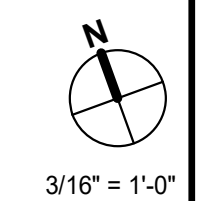
- P-1 NEW DOUBLE HUNG WOOD WINDOW IN EXISTING MASONRY OPENING
- P-2 NEW DOOR AND FRAME IN EXISTING MASONRY OPENING
- P-3 NEW DOOR AND FRAME IN INFILLED MASONRY OPENING. MASONRY REMOVED TO CREATE ACCESSIBLE ENTRANCE
- P-4 NEW CONCRETE LOADING DOCK PLATFORM
- P-6 NEW HOLLOW METAL DOOR AND FRAME, REPLACED IN KIND
- P-8 NEW PERFORATED METAL PANELS OVER ALUMINUM FRAME ATTACHED TO EXISTING ELEVATOR SHAFT
- P-10 NEW CITY-SPECIFIED BRICK PAVERS
- P-11 STAINLESS STEEL HANDRAIL
- P-12 CAST-IN-PLACE STAIR TREADS

GENERAL FLOOR PLAN NOTES

1. SEE LIFE SAFETY PLANS FOR WALL, FLOOR/CEILING, AND SHAFT FIRE RATED ASSEMBLY LOCATIONS.
2. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS NOTED OTHERWISE.
3. REFER TO BUILDING PLANS AND ELEVATIONS FOR CONFIGURATION OF EXTERIOR WINDOWS, DOORS, BALCONIES AND WALL TYPES.
4. CONTRACTOR TO PROVIDE AND INSTALL ALL ACCESS DOORS WHERE REQUIRED FOR ACCESS AND SERVICEABILITY OF ALL BUILDING EQUIPMENT AND SYSTEMS. ALL ACCESS PANELS IN RATED PARTITIONS TO MEET OR EXCEED THE PARTITION RATING.
5. PATCH AND REPAIR ALL INCIDENTAL FLOOR HOLES WITH MATERIAL TO MATCH. PATCH ALL CONCRETE FLOORS TO CREATE SMOOTH UNIFORM FINISH TO ACCEPT FINISH FLOOR MATERIAL. REFER TO SPECIFICATIONS FOR TECHNICAL NOTES ON REPAIR, REFINISHING, AND CLEANING.
6. PATCH, SCRABE, SAND AND PAINT ALL INTERIOR FINISHED SURFACES INCLUDING GYP. BOARD, TONGUE AND GROOVE CEILINGS, WINDOWS, CEILING, TRIM, RAILINGS, FLOORS, ETC. TO ALLOW FOR SMOOTH UNIFORM FINISH WITHIN THE PROJECT AREA. DO NOT PAINT ANY FACTORY FINISHED ITEMS. PAINT ALL PREVIOUSLY PAINTED INTERIOR SURFACES. ARCHITECT TO SELECT ALL COLORS. SEE SPECIFICATION FOR PAINTING INSTRUCTIONS.
7. PATCH AND REPAIR ALL VOIDS OR OPENINGS IN ALL EXPOSED PLASTER WALLS TO ALLOW FOR SMOOTH UNIFORM FINISH.
8. PROVIDE FACTORY APPLIED BRICK MOULD ON ALL REPLACEMENT WINDOWS IN EXISTING MASONRY OPENINGS.
9. 4" MIN. SETBACK AT ALL WINDOW AND DOOR FRAMES.
10. WINDOW MUNTINS TO BE 7/8" MINIMUM WIDTH.

FLOOR PLAN LEGEND

- EXISTING WALL TO REMAIN
- NEW PARTITION
- NEW MASONRY WALL
- ADJACENT BUILDING (N.I.C.)
- PROPERTY LINE



3/16" = 1'-0"
 SECOND FLOOR A22 GENERAL FLOOR PLAN NOTES



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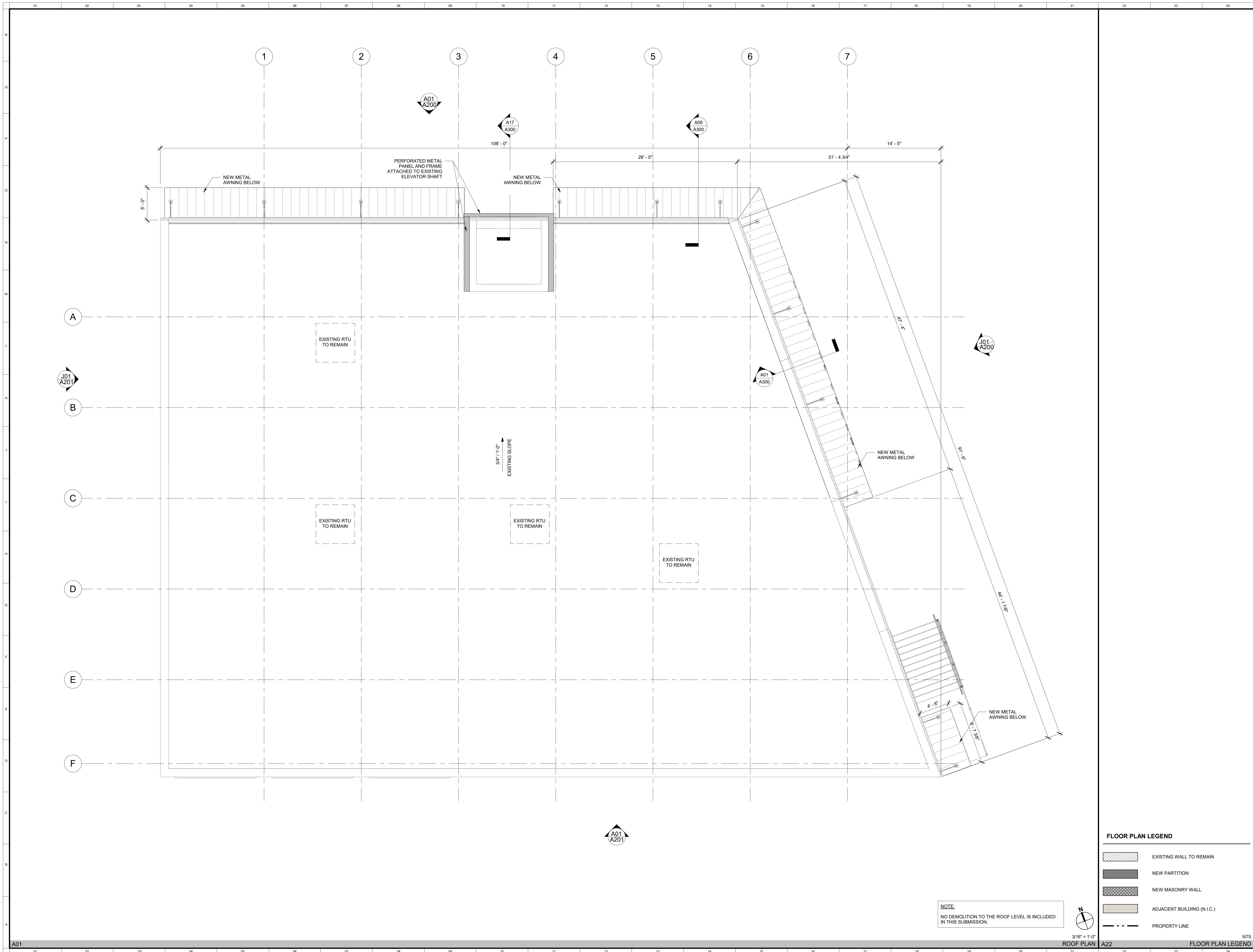
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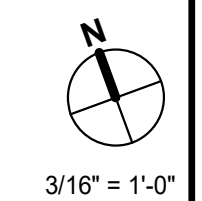
SECOND FLOOR PLAN

Status HDBR
 Date
 Project No. 2016.00
 Drawing No.

A101



NOTE:
NO DEMOLITION TO THE ROOF LEVEL IS INCLUDED
IN THIS SUBMISSION.



FLOOR PLAN LEGEND

- EXISTING WALL TO REMAIN
- NEW PARTITION
- NEW MASONRY WALL
- ADJACENT BUILDING (N.I.C.)
- PROPERTY LINE

3/16" = 1'-0"
ROOF PLAN

NTS
FLOOR PLAN LEGEND



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No	Date	Description

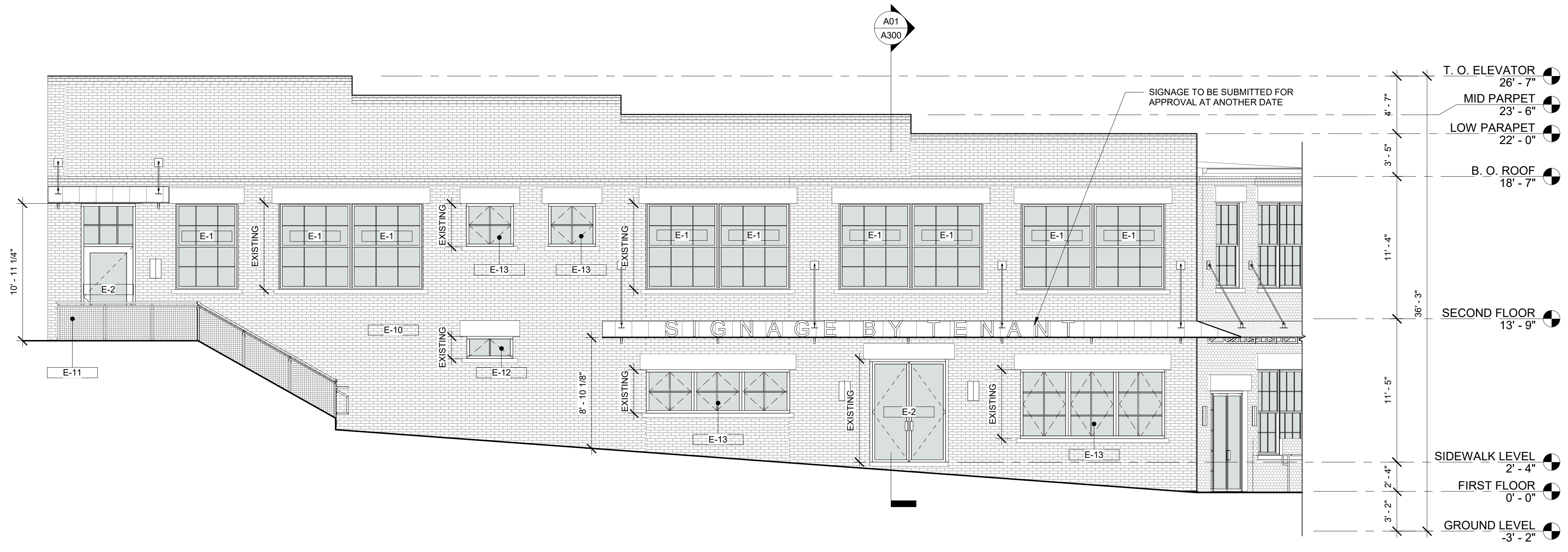
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ROOF PLAN

Status HD BR
Date
Project No. 2016.00
Drawing No.

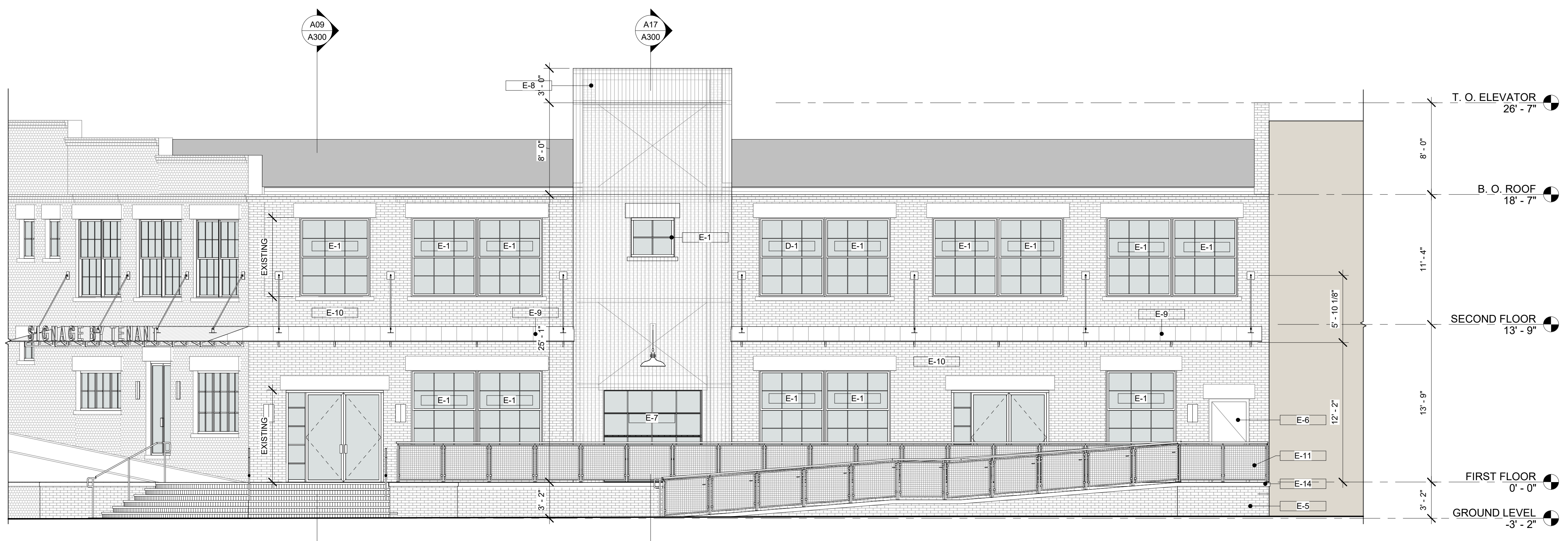
A102

NOTE:
 1. ALL WINDOW AND DOOR OPENINGS TO BE INSET A MINIMUM 3" FROM THE FACE OF BUILDING.
 2. ALL WINDOW MULLIONS TO BE 7/8".



T.O. ELEVATOR 26'-7"
 MID PARPET 23'-6"
 LOW PARPET 22'-0"
 B.O. ROOF 18'-7"
 SECOND FLOOR 13'-9"
 SIDEWALK LEVEL 2'-4"
 FIRST FLOOR 0'-0"
 GROUND LEVEL -3'-2"

NOTE:
 1. ALL WINDOW AND DOOR OPENINGS TO BE INSET A MINIMUM 3" FROM THE FACE OF BUILDING.
 2. ALL WINDOW MULLIONS TO BE 7/8".



T.O. ELEVATOR 26'-7"
 B.O. ROOF 18'-7"
 SECOND FLOOR 13'-9"
 FIRST FLOOR 0'-0"
 GROUND LEVEL -3'-2"

ELEVATION KEYNOTES

- E-1 NEW DOUBLE HUNG WOOD WINDOW IN EXISTING MASONRY OPENING
- E-2 NEW DOOR AND FRAME IN EXISTING MASONRY OPENING
- E-6 NEW RAMP, LANDING, AND HANDRAIL
- E-6 NEW HOLLOW METAL DOOR AND FRAME, REPLACED IN KIND
- E-7 NEW GLASS OVERHEAD SECTIONAL DOOR AT EXISTING MASONRY OPENING
- E-8 NEW PERFORATED METAL PANELS OVER ALUMINUM FRAME ATTACHED TO EXISTING ELEVATOR SHAFT
- E-9 NEW METAL AWNING AT EXISTING BUILDING ENTRANCE
- E-10 EXISTING MASONRY TO BE REPAIRED IN KIND. REPOINT AS NEEDED USING TYPE N MORTAR, COLOR TO MATCH EXISTING
- E-11 NEW MESH PANEL STAINLESS STEEL GUARDRAIL
- E-12 NEW MARVIN WOOD AWNING WINDOW IN EXISTING MASONRY OPENING
- E-13 NEW MARVIN WOOD CASEMENT WINDOW IN EXISTING MASONRY OPENING

GENERAL ELEVATION NOTES

1. PATCH AND REPAIR ALL DAMAGE, VOIDS OR OPENINGS WITHIN EXTERIOR BRICK AND STUCCO. BRICK AND STONE INFILL IS TO MATCH EXISTING IN KIND.
2. SCRAPE AND PAINT ALL EXISTING IRON WORK INCLUDING COLUMNS, RAILING, LITELS, FENCES, METAL GRILLES, ETC. DO NOT PAINT ANY FACTORY FINISHED ITEMS. PAINT ALL PREVIOUSLY PAINTED EXTERIOR WOOD SURFACES. ARCHITECT TO SELECT ALL COLORS. SEE SPECIFICATION FOR PAINTING INSTRUCTIONS.
3. RE-POINT ALL EXTERIOR MASONRY SURFACES AS SPECIFIED IN THE STRUCTURAL DRAWINGS AND PROVIDE A 4"x4" MOCK UP FOR ARCHITECTS APPROVAL. REPAIR OR REPLACE ANY DAMAGED OR MISSING BRICK WHERE NECESSARY.
4. PROVIDE P.T. WOOD BLOCKING FOR ALL REPLACEMENT DOOR AND WINDOW OPENINGS.
5. PATCH, REPAIR, AND PAINT ALL DAMAGED OR DETERIORATED WOOD TRIM. MATCH ALL REPLACEMENT COMPONENTS IN KIND.



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Revisions

No	Date	Description

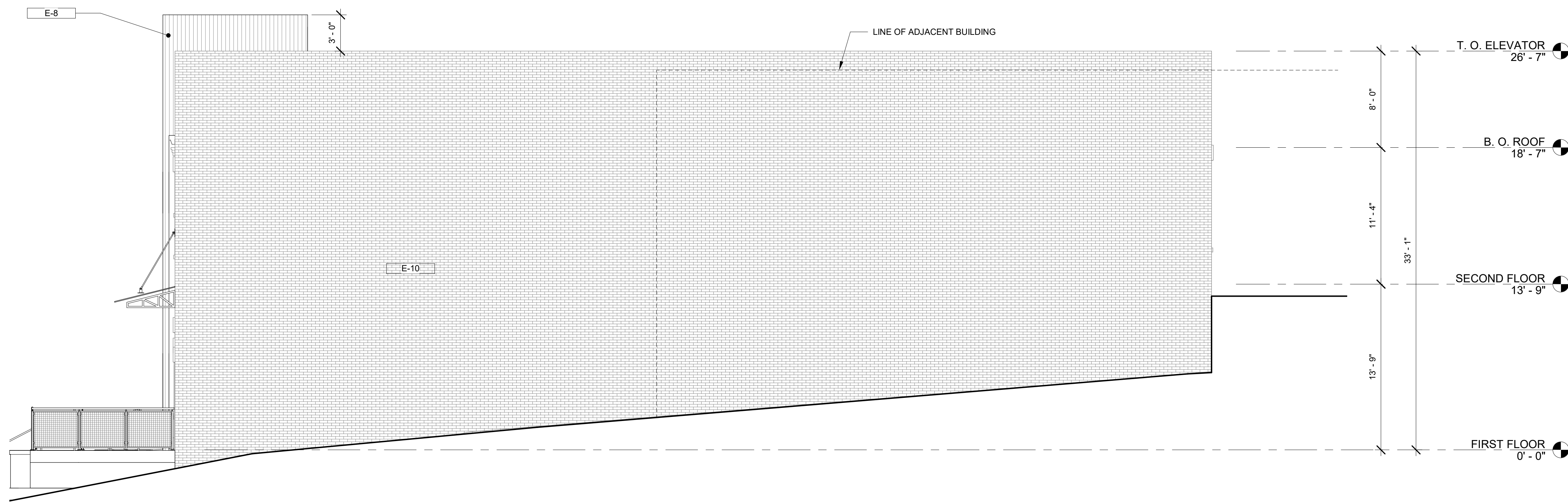
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ELEVATIONS

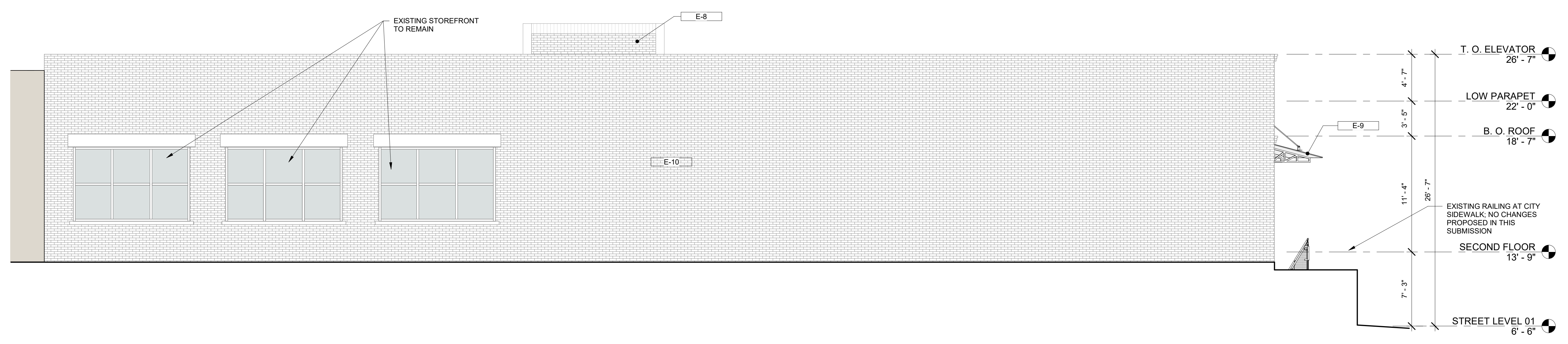
Status HDBR
 Date
 Project No. 2016.00
 Drawing No.

A200

NOTE:
 1. ALL WINDOW AND DOOR OPENINGS TO BE INSET A MINIMUM 3" FROM THE FACE OF BUILDING.
 2. ALL WINDOW MULLIONS TO BE 7/8".



NOTE:
 1. ALL WINDOW AND DOOR OPENINGS TO BE INSET A MINIMUM 3" FROM THE FACE OF BUILDING.
 2. ALL WINDOW MULLIONS TO BE 7/8".



ELEVATION KEYNOTES

- E-1 NEW DOUBLE HUNG WOOD WINDOW IN EXISTING MASONRY OPENING
- E-2 NEW DOOR AND FRAME IN EXISTING MASONRY OPENING
- E-5 NEW RAMP, LANDING, AND HANDRAIL
- E-6 NEW HOLLOW METAL DOOR AND FRAME, REPLACED IN KIND
- E-7 NEW GLASS OVERHEAD SECTIONAL DOOR AT EXISTING MASONRY OPENING
- E-8 NEW PERFORATED METAL PANELS OVER ALUMINUM FRAME ATTACHED TO EXISTING ELEVATOR SHAFT
- E-9 NEW METAL AWNING AT EXISTING BUILDING ENTRANCE
- E-10 EXISTING MASONRY TO BE REPAIRED IN KIND. REPOINT AS NEEDED USING TYPE N MORTAR, COLOR TO MATCH EXISTING
- E-11 NEW MESH PANEL STAINLESS STEEL GUARDRAIL
- E-12 NEW MARVIN WOOD AWNING WINDOW IN EXISTING MASONRY OPENING
- E-13 NEW MARVIN WOOD CASEMENT WINDOW IN EXISTING MASONRY OPENING

GENERAL ELEVATION NOTES

1. PATCH AND REPAIR ALL DAMAGE, VOIDS OR OPENINGS WITHIN EXTERIOR BRICK AND STUCCO. BRICK AND STONE INFILL IS TO MATCH EXISTING IN KIND.
2. SCRAPE AND PAINT ALL EXISTING IRON WORK INCLUDING COLUMNS, RAILING, LINTELS, FENCES, METAL GRILLES, ETC. DO NOT PAINT ANY FACTORY FINISHED ITEMS. PAINT ALL PREVIOUSLY PAINTED EXTERIOR WOOD SURFACES. ARCHITECT TO SELECT ALL COLORS. SEE SPECIFICATION FOR PAINTING INSTRUCTIONS.
3. RE-POINT ALL EXTERIOR MASONRY SURFACES AS SPECIFIED IN THE STRUCTURAL DRAWINGS AND PROVIDE A 4x4 WOOD BLOCK FOR ARCHITECTS APPROVAL. REPAIR OR REPLACE ANY DAMAGED OR MISSING BRICK WHERE NECESSARY.
4. PROVIDE P. T. WOOD BLOCKING FOR ALL REPLACEMENT DOOR AND WINDOW OPENINGS.
5. PATCH, REPAIR, AND PAINT ALL DAMAGED OR DETERIORATED WOOD TRIM. MATCH ALL REPLACEMENT COMPONENTS IN KIND.



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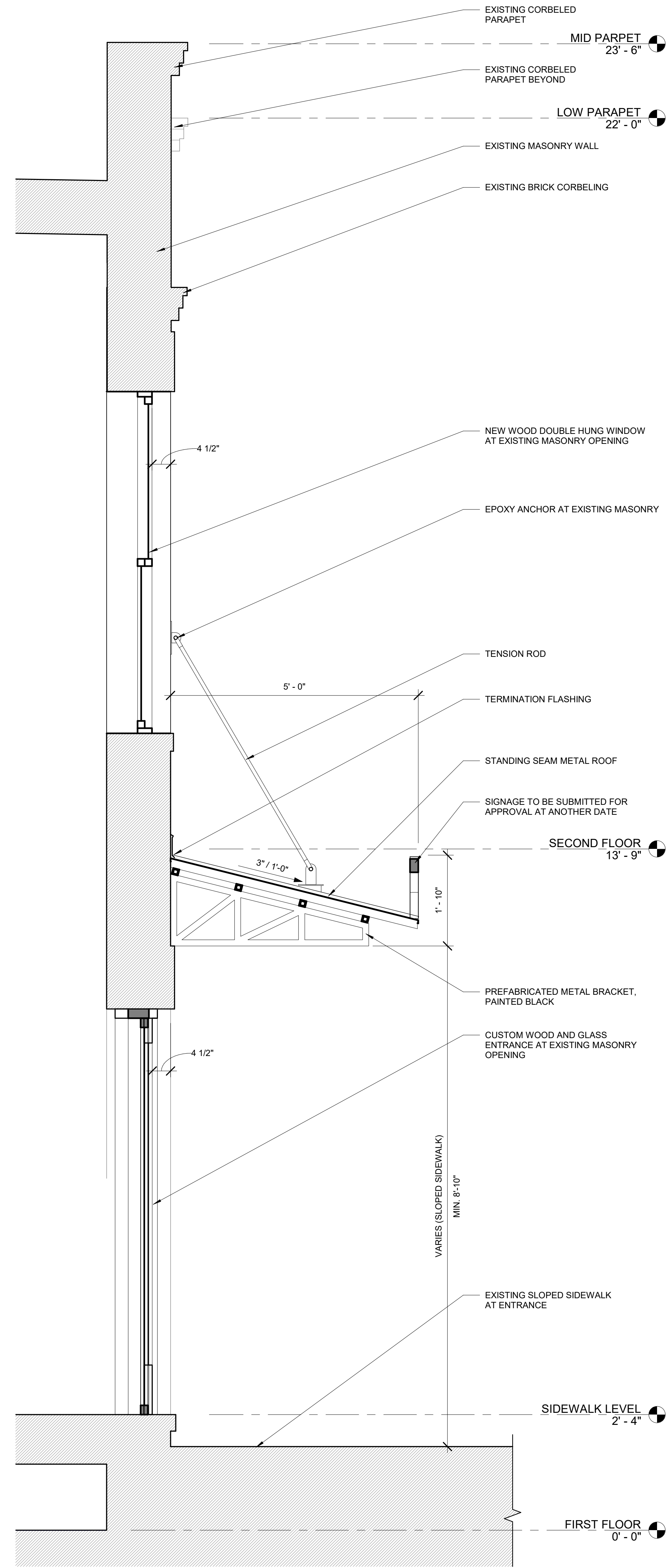
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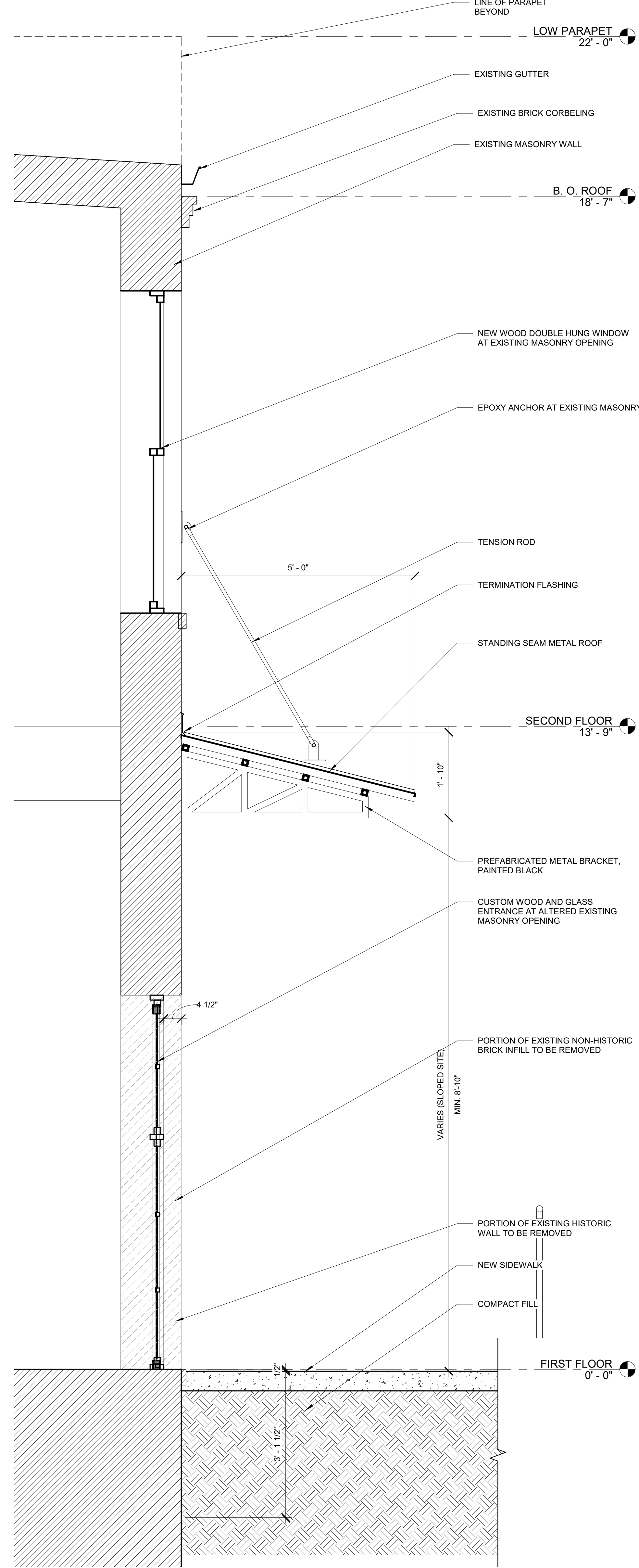
ELEVATIONS

Status	HDBR
Date	
Project No.	2016.00
Drawing No.	

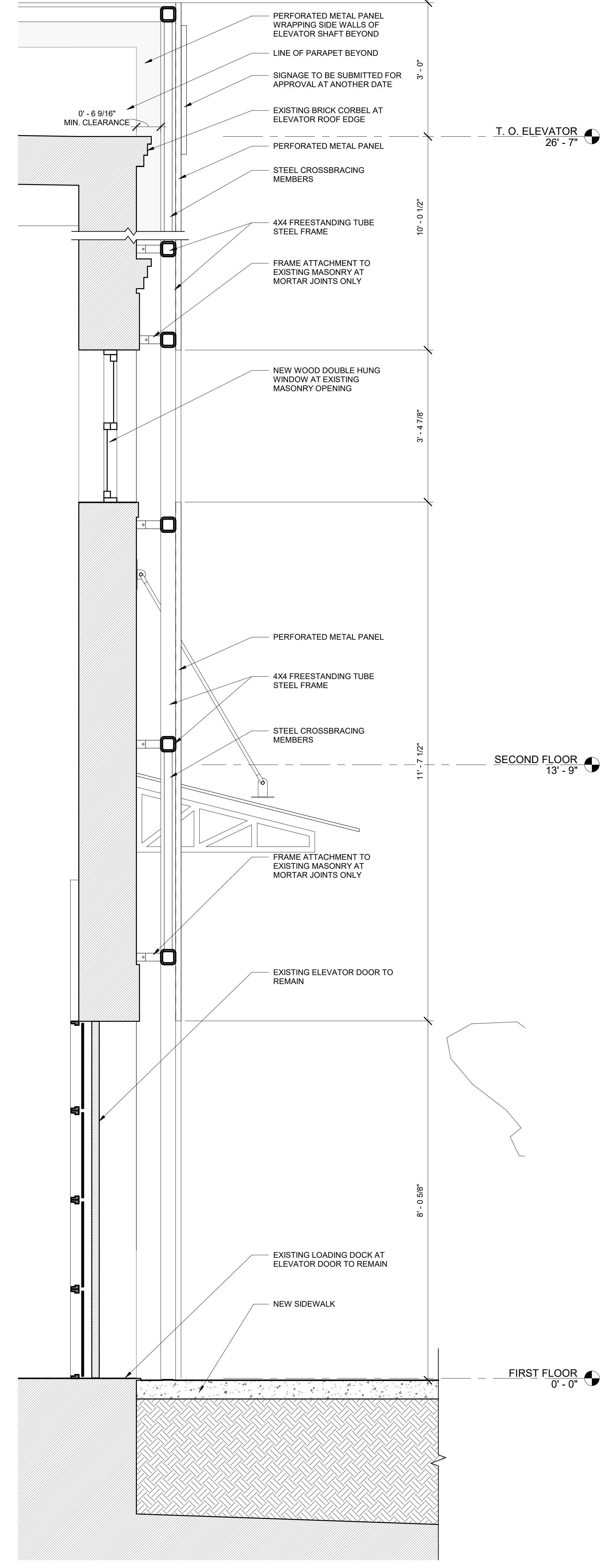
A201



3/4" = 1'-0"
TYPICAL AWNING SECTION A09



3/4" = 1'-0"
SECTION AT NEW ENTRY A17



3/4" = 1'-0"
SECTION AT EXISTING ELEVATOR

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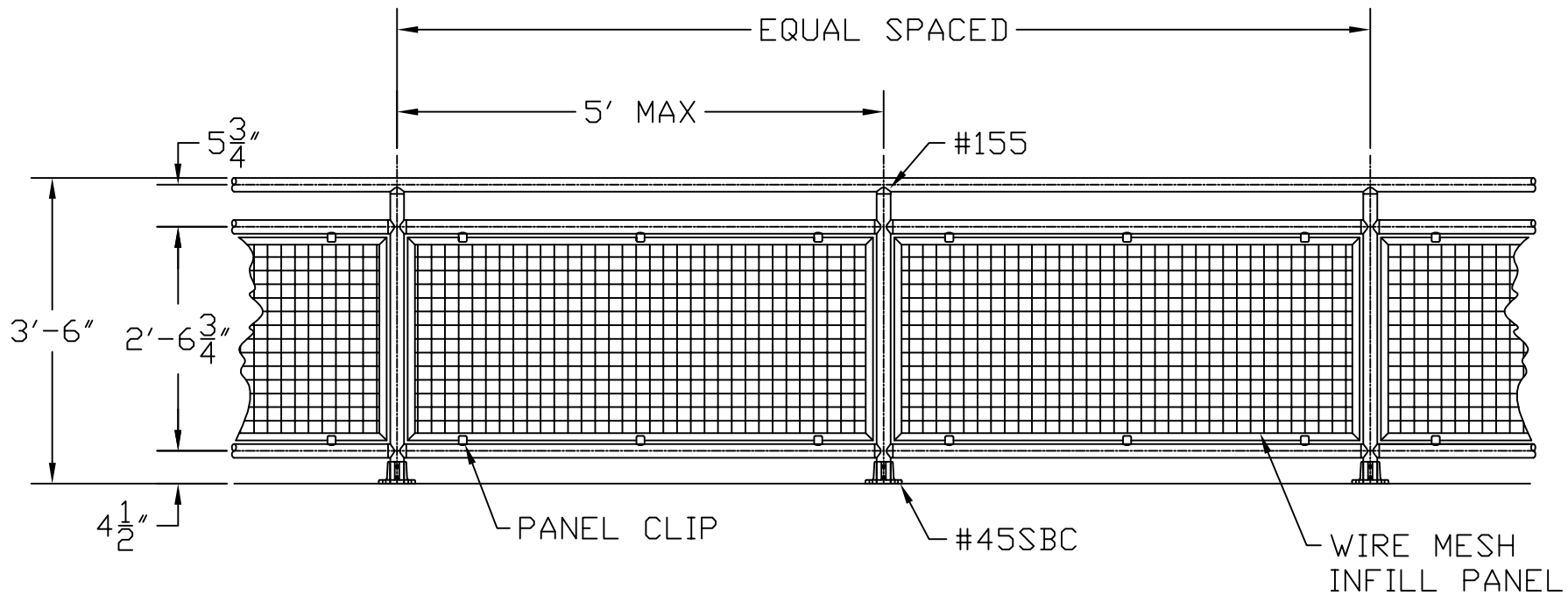
No	Date	Description

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WALL
SECTIONS

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A300



TYPICAL LEVEL HANDRAIL WITH INFILL
 INTERNA-RAIL DETAIL

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PROJECT	DESCRIPTION
INFILL PANELS	DETAIL PACKAGE

SCALE	APPROVED BY	DATE
N/A	BW	4-13-06

PROJECT NO.	ISSUED BY	DATE
N/A	BW	4-13-06



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511/521/522

ALUMINUM DOOR SYSTEMS



ALUMINUM SECTIONAL DOORS



**VISUAL ACCESS.
LIGHT INFILTRATION.
CONTEMPORARY LOOK.**



INDUSTRY LEADING
COMMERCIAL & INDUSTRIAL SOLUTIONS



Model 511, Brown powder coat finish, Clear glass

General features and benefits – Models 511/521

- 1 3/4" (45 mm) thick, corrosion-resistant 6063-T6 aluminum sections with galvanized fixtures and hinges promotes durability and trouble-free operation
- 1/4" (6 mm) diameter through-rods on all stiles and rails enhances strength and sturdiness
- Top-quality materials, excellent field service and optional maintenance program contribute to extended door life, low maintenance costs and maximum productivity
- Glazing choices include DSB glass, acrylic, tempered glass, clear polycarbonate, multi-wall polycarbonate, wire glass, Low E, Lexan and laminate
- Standard clear anodized finish for low-maintenance and corrosion-resistance
- Optional finishes include a wide range of powder coat colors offering an attractive and durable finish
- Manual pull rope operation with optional chain hoist or electric motor operator
- Available in approximately 200 RAL powder coat colors to match the aesthetic and design of your project. This color optional upgrade includes a hardening additive that provides an attractive and durable finish and easy-to-clean surface.

Cover image: Model 521, Clear anodized finish with Clear glass.



Model 522, Mirrored Gray glass

General features and benefits – Model 522

- **Frameless design** – the ultimate sleek and modern aluminum full-view door
- **Vinyl seals** between the sections and the flexible bottom seal help to minimize air flow
- **Large glass panels**, mounted to the front of the door, allow maximum light and visibility
- **1 3/8" thick aluminum section** with patent pending design for long life and durability
- **2 1/4" integrated reinforcing rib** on upper intermediate rail for doors 10'3" wide and over
- **Meets ASHRAE 90.1 and IECC® air infiltration requirements** with a third-party tested value of less than 0.4 cfm/ft²
- **Meets California Code of Regulation, Title 24 air infiltration requirements** with a third-party tested value of less than 0.3 cfm/ft²



ALUMINUM DOOR SYSTEMS

MODELS 511/521/522 offer an attractive solution for commercial and industrial applications where visual access, light infiltration and aesthetics are key design considerations.

Model 521, Clear anodized finish with Clear glass



Glass options for Models 511/521

Specialty Glass

- Laminated White – privacy
- Low E Glass** – thermal efficiency
- Tempered Glass – enhanced safety
- Tinted Glass** – color options:
Green, Gray, Bronze

Glass alternatives

- Clear Lexan® Polycarbonate** – shatter resistant
- Multi Wall Polycarbonate – superior strength with UV protection; color options: Clear, White, Bronze
- Plexiglas® Acrylic** – shatter resistant
- Impact Clear and Frosted Polycarbonate - 0.250" minimum



Double Strength DSB** (Standard)



Obscure



Satin Etched



Gray Tint



Green Tint



Bronze Tint



Impact Frosted Polycarbonate

Actual glass may vary from brochure photos due to fluctuations in the printing process. Check with your Overhead Door™ Distributor to view a glass sample.

** Insulated options available.



Model 511, Clear Anodized finish with Clear glass

ALUMINUM DOOR SYSTEMS MODEL 511

doors are designed in sizes up to 16'2" wide and 16'1" high (4928 mm and 4902 mm). Featuring a narrow center stile width of 21/32" (17 mm), these doors are sleek, attractive and permit maximum visibility. An array of glazing choices, top and bottom rail widths, finishes and special options customizes the 511 Model to satisfy nearly any project requirement.

Model 511, Black powder coat finish, Clear glass.



Standard features at a glance

Panel thickness	1 3/4" (45 mm)
Maximum standard height	16'1" (4902 mm)
Maximum standard width	16'2" (6147 mm)
Material	6063-T6 aluminum
Standard finish	204R-1 clear anodized
Center stile width	2 1/32" (17 mm)
End stile width	2 3/4" (70 mm)
Top rail width	2 3/8" (60 mm) or 3 3/4" (95 mm)
Top intermediate rail width	3/4" (19 mm)
Bottom intermediate rail width	5/8" (16 mm)
Bottom rail width	2 3/8" (60 mm) or 3 3/4" (95 mm) or 4 1/2" (114 mm)
Weatherseals	Bottom, flexible PVC
Standard springs	10,000 cycle
Track	2" (51 mm)
Mounting	Angle
Operation	Manual pull rope
Hinges and fixtures	Galvanized steel
Lock	Galvanized, interior-mounted single unit
Warranty	1-Year Limited; 3-Year Limited powder coat finish

Options

Glazing options*:
 1/8" (3 mm) DSB;
 1/8" (3 mm) or 1/4" (6 mm) acrylic;
 1/8" (3 mm) or 1/4" (6 mm) tempered;
 1/8" (3 mm) or 1/4" (6 mm) clear polycarbonate;
 1/4" (6mm) and 3/8" twin-wall polycarbonate, 5/8" triple-wall polycarbonate;
 1/4" (6 mm) 3/8" (10 mm) and 5/8" (16 mm) twin-wall polycarbonate, triple-wall polycarbonate 1/4" (6 mm) wire glass;
 1/2" (12 mm) insulated glass

Electric operator or chain hoist

Bottom sensing edge

3" track

Bracket mounting (not available on full vertical door tracks)

Higher-cycle springs in 25k, 50k, 75k, 100k cycles

Chain hoist

Posi-tension drums

*Contact your local Overhead Door™ Distributor for special glazing requirements. Verify 1/4" (6 mm) glass applications with factory.

Structure options

Anodized finishes



Clear (standard)



Light Bronze



Medium Bronze



Dark Bronze

Powder coat finishes

Select from approximately 200 RAL powder coat color options to best match your home.



Actual door colors may vary from brochure photos due to fluctuations in the printing process. Always request a color sample from your Overhead Door™ Distributor for accurate color matching.

Panel layout

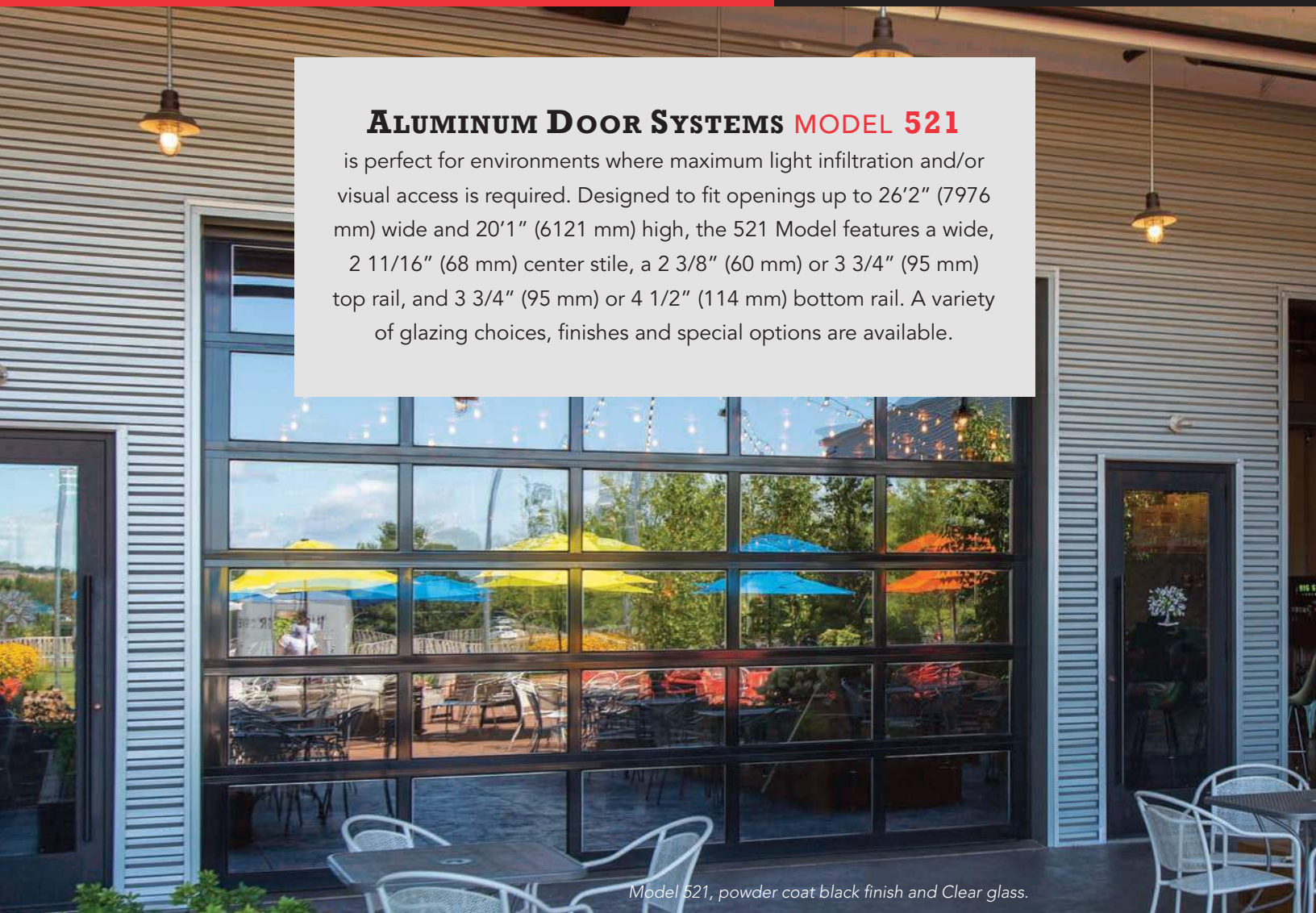
Door width	Number of panels
to 11'11" (3632 mm)	3
12'0" to 14'11" (3658 mm to 4547 mm)	4
15'0" to 16'2" (4572 mm to 4928 mm)	5

Section stack

Door height	Number of sections
to 8'6" (2591 mm)	4
8'7" to 10'1" (2616 mm to 3073 mm)	5
10'2" to 12'1" (3099 mm to 3683 mm)	6
12'2" to 14'1" (3708 mm to 4293 mm)	7
14'2" to 16'1" (4318 mm to 4902 mm)	8

ALUMINUM DOOR SYSTEMS MODEL 521

is perfect for environments where maximum light infiltration and/or visual access is required. Designed to fit openings up to 26'2" (7976 mm) wide and 20'1" (6121 mm) high, the 521 Model features a wide, 2 11/16" (68 mm) center stile, a 2 3/8" (60 mm) or 3 3/4" (95 mm) top rail, and 3 3/4" (95 mm) or 4 1/2" (114 mm) bottom rail. A variety of glazing choices, finishes and special options are available.



Model 521, powder coat black finish and Clear glass.

Optional polyurethane insulation for stiles and rails up to 18'2" wide

1/2" insulated glazing unit	Door R-value (K m²/W)
DSB- clear, tempered, obscure	2.87
Clear polycarbonate	2.93
DSB - Solar Bronze	3.17
DSB - Low E coating	3.43
SolarBan 70XL argon filled	4.09
Multi-wall polycarbonate	Door R-value (K m²/W)
1/4" thick unit	2.75
3/8" thick unit	3.21
5/8" thick unit	3.48
Insulated panels	Door R-value (K m²/W)
3/8" EPS solid panels	2.60



Polyurethane filled rails and stiles

*R-value: Overhead Door Corporation uses a calculated door section R-value for our insulated doors.



Standard features at a glance

Section thickness	1 3/4" (45 mm)
Maximum standard height	20'1" (6121 mm)
Maximum standard width	26'2" (7976 mm)
Material	Extruded 6061-T6 aluminum
Standard finish	204R-1 clear anodized (painted white at no charge)
Center stile width	2 11/16" (68 mm)
End stile width	3 5/16" (85 mm)
Top rail width	2 3/8" (60 mm) or 3 3/4" (95 mm)
Top intermediate rail width	2 1/8" (54 mm)
Bottom intermediate rail width	1 19/32" (40 mm)
Bottom rail width	3 3/4" (95 mm) or 4 1/2" (114 mm)
Weatherseals	Bottom, flexible PVC
Standard springs	10,000 cycle
Track	2" (51 mm)
Mounting	Angle
Operation	Manual pull rope
Hinges and fixtures	Galvanized steel
Lock	Galvanized, interior-mounted single unit
Warranty	1-Year Limited; 3-Year Limited on powder coat finish

Options

Glazing options[†]: 1/8" (3 mm) DSB; 1/8" (3 mm) or 1/4" (6 mm) acrylic; 1/8" (3 mm) or 1/4" (6 mm) tempered; 1/8" (3 mm) or 1/4" (6 mm) clear polycarbonate; 1/4" (6mm) and 3/8" twin-wall polycarbonate, 5/8" triple-wall polycarbonate; 1/4" (6 mm) 3/8" (10 mm) and 5/8" (16 mm) twin-wall polycarbonate, triple-wall polycarbonate 1/4" (6 mm) wire glass; 1/2" (12 mm) insulated glass

Electric operator or chain hoist

Bottom sensing edge

3" track

Bracket mounting (not available on full vertical door tracks)

Higher-cycle springs in 25k, 50k, 75k, 100k cycles

Exhaust ports

Four-section pass door

Wind load and impact rated door available

Posi-tension drums

Bronze anodization

Powder coat finish

Pass door

[†]Contact your local Overhead Door™ Distributor for special glazing requirements. Verify 1/4" (6 mm) glass applications with factory.

Structure options

Anodized finishes



Clear (standard)



Light Bronze



Medium Bronze



Dark Bronze

Wood grain powder coat finishes



Knotty Pine



Cherry



Cherry with Flame



Dark Walnut

Powder coat finishes

Select from approximately 200 RAL powder coat color options to best match your home.



Actual door colors may vary from brochure photos due to fluctuations in the printing process. Always request a color sample from your Overhead Door™ Distributor for accurate color matching.

Panel layout	
Door width	Number of panels
to 9'2" (to 2794 mm)	2 or 3 (standard)
9'3" to 12'2" (2819 mm to 3708 mm)	3
12'3" to 16'2" (3734 mm to 4953 mm)	4
16'3" to 18'2" (4978 mm to 5537 mm)	4 or 5 (standard)
18'3" to 19'2" (5562 mm to 5842 mm)	5
19'3" to 20'11" (5867 mm to 6375 mm)	6**
21'0" to 23'11" (6401 mm to 7290 mm)	8**
24'0" to 26'2" (7315 mm to 7976 mm)	10**

Section stack	
Door height	Number of sections
to 8'6" (2591 mm)	4
8'7" to 10'1" (2616 mm to 3073 mm)	5
10'2" to 12'1" (3099 mm to 3683 mm)	6
12'2" to 14'1" (3708 mm to 4293 mm)	7
14'2" to 16'1" (4318 mm to 4902 mm)	8
16'2" to 18'1" (4928 mm to 5512 mm)	9
18'2" to 20'1" (5537 mm to 6121 mm)	10

**Special construction. Consult your local Overhead™ Door Distributor for additional information.

ALUMINUM DOOR SYSTEMS MODEL 522

This aluminum full-view door is ideal for restaurants, auto dealerships and any application where the door needs to integrate seamlessly with the aesthetics of the building.



Model 522, Mirrored Bronze glass



Standard features at a glance

Section thickness	1 3/8" (35 mm)
Maximum standard height	14'1" (4318 mm)
Maximum standard width	18'2" (5486 mm)
Material	6063-T6 aluminum
Standard finish	White, Black or Bronze Powder Coat
Center stile width	3" (76 mm)
End stile width	3 1/2" (89 mm)
Top rail width	3 1/2" (89 mm)
Top intermediate rail width	1 5/8" (41 mm)
Bottom intermediate rail width	1 3/8" (35 mm)
Bottom rail width	3 1/2" (89 mm)
Standard springs	10,000 cycle
Track	Provide track as recommended by manufacturer to suit loading required and clearances available
Mounting	Angle
Operation	Manual pull rope
Hinges and fixtures	Galvanized steel
Lock	Galvanized, interior-mounted single unit
Warranty	1-Year Limited

Options

- Springs: 25,000, 50,000, 75,000 or 100,000 cycles
- Weather stripping: jamb and header seals
- White or Black powder coat track

Glass options



Opaque White



Opaque Black



Mirrored Gray



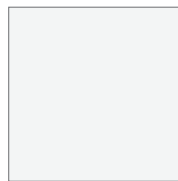
Mirrored Bronze



Translucent Black

Structure options

Powder Coat Finishes



White



Black



Bronze

Anodized Finishes



Black



Bronze

Actual colors may vary from brochure due to fluctuations in the printing process. Always request a color sample from your Overhead Door™ Distributor for accurate color matching.

Aluminum and glass pairing

Aluminum options	Glass color
White Powder Coat	Opaque White
Black Powder Coat / Bronze Powder Coat / Black Anodized / Bronze Anodized	Opaque Black / Mirrored Gray / Mirrored Bronze / Translucent Black

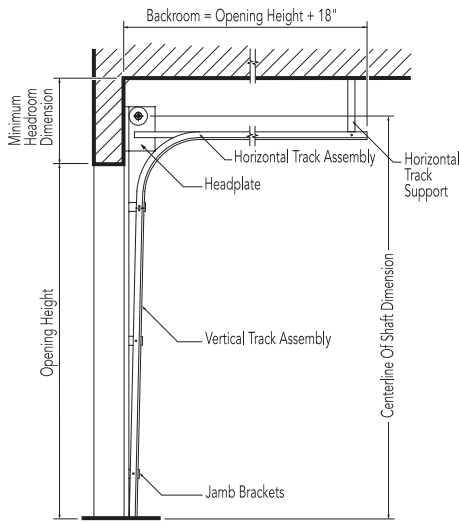
Each door is unique and built to order, therefore a slight deviation in glass alignment is possible. These doors may become hot to the touch in sustained hot weather. See website for door sizes, section selection and other details.

Track detail

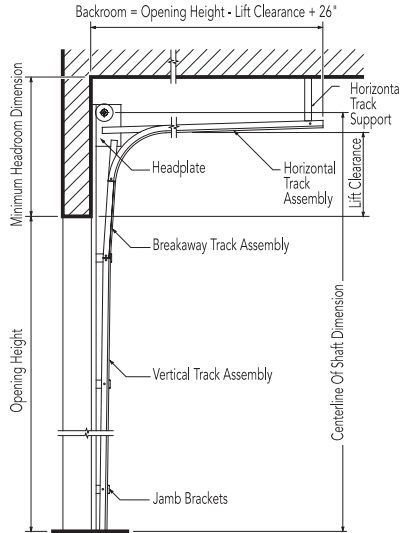
Any of the following track configurations can be selected for 511, 521 and 522 Aluminum door models.

O.H.=Opening height L.C.=Lift clearance D.H.=Door height

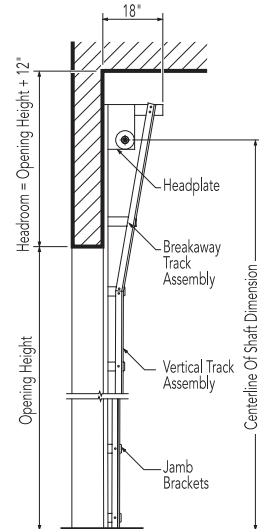
Standard lift track



Lift clearance track Standard



Full vertical track



2" (51 mm) Track [15" (381 mm) radius]

Door height	Centerline of shaft	Minimum headroom
Thru 12'0" (3658 mm)	O.H. + 11 5/8" (295 mm)	14 1/4" (362 mm)
Thru 16'0" (4877 mm)	O.H. + 12 5/8" (321 mm)	20 1/2" (521 mm)

2" (51 mm) Track [15" (381 mm) radius]

Door height	Centerline of shaft	Minimum headroom
Thru 12'0" (3658 mm)	O.H. + L.C. + 5 5/8" (143 mm)	L.C. + 8 3/4" (222 mm)
Thru 16'0" (4877 mm)	O.H. + L.C. + 5 5/8" (143 mm)	L.C. + 11 1/4" (286 mm)

2" (51 mm) Track [15" (381 mm) radius]

Door height	Centerline of shaft	Minimum headroom
Thru 11'0" (3353 mm)	O.H. + O.H. + 3/8" (10 mm)	O.H. + 10 1/4" (260 mm)
Thru 16'0" (4877 mm)	O.H. + O.H. + 3/8" (10 mm)	O.H. + 10 1/4" (260 mm)

3" (76 mm) Track [15" (381 mm) radius]

Thru 18'0" (5486 mm)	O.H. + 14 5/8" (372 mm)	18" (457 mm)
Thru 32'0" (9754 mm)	O.H. + 16 7/8" (429 mm)	21 1/2" (546 mm)

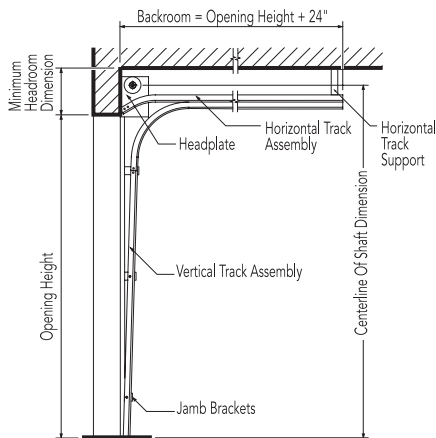
3" (76 mm) Track [15" (381 mm) radius]

Thru 22'0" (6706 mm)	O.H. + L.C. + 6 5/8" (168 mm)	L.C. + 11 1/2" (292 mm)
Thru 32'0" (9754 mm)	O.H. + L.C. + 6 5/8" (168 mm)	L.C. + 12 1/4" (311 mm)

3" (76 mm) Track [15" (381 mm) radius]

Thru 18'0" (5486 mm)	O.H. + O.H. + 3/8" (10 mm)	O.H. + 10 1/4" (260 mm)
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Low headroom track Springs to front



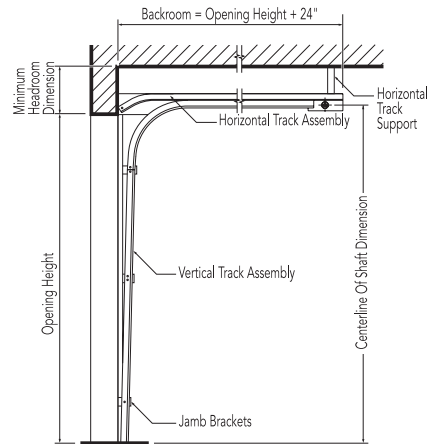
2" (51 mm) Track [15" (381 mm) radius]

Door height	Centerline of shaft	Minimum headroom
Thru 12'0" (3658 mm)	D.H. + 8" (203 mm)	11 3/4" (299 mm)
Thru 16'0" (4877 mm)	D.H. + 8" (203 mm)	12 1/2" (318 mm)

3" (76 mm) Track [15" (381 mm) radius]

Thru 12'0" (3658 mm)	D.H. + 9" (229 mm)	13" (330 mm)
Thru 32'0" (5486 mm)	D.H. + 9" (229 mm)	13 3/4" (349 mm)

Low headroom track Springs to rear



2" (51 mm) Track [15" (381 mm) radius]

Door height	Centerline of shaft	Minimum headroom
Thru 12'0" (3658 mm)	O.H. + 2" (51 mm)	7 1/2" (191 mm)
Thru 16'0" (4866 mm)	O.H. + 2" (51 mm)	8" (203 mm)

3" (76 mm) Track [15" (381 mm) radius]

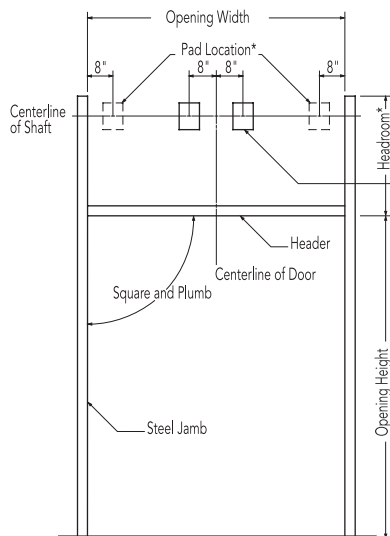
Thru 18'0" (5486 mm)	O.H. + 6 3/4" (171 mm)	9 3/4" (248 mm)
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Framing and pad detail

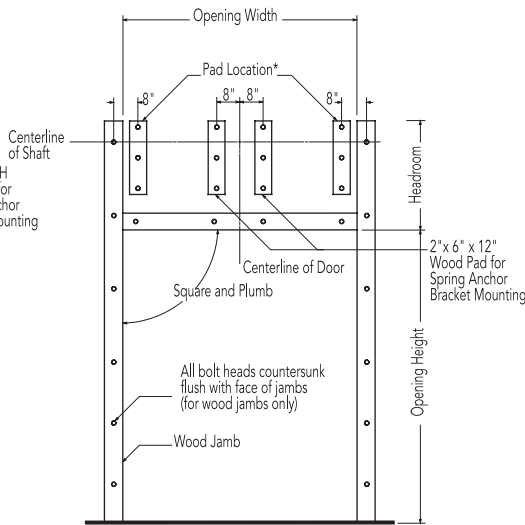
Framing and pad details for common installation of Aluminum doors in steel, wood, concrete and masonry jambs are provided here. If you require additional information or have special project requirements, refer to the Architectural Design Manual, (www.overheaddoor.com/ADM/base.html) or consult with the Applications Engineering Group or your local Overhead Door™ Distributor.

Steel jambs



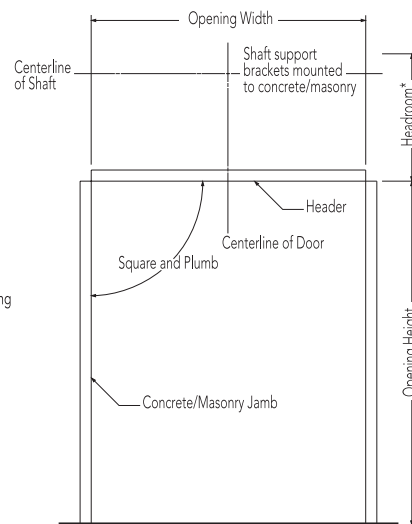
* Pad Location for additional shaft support brackets for doors over 18'3" wide

Wood jambs

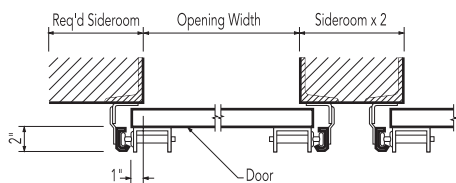


* Pad Location for additional shaft support brackets for doors over 18'3" wide

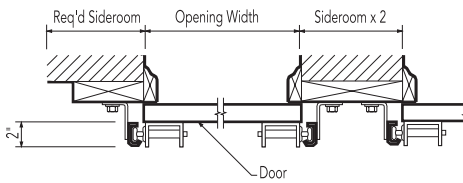
Concrete/masonry jambs



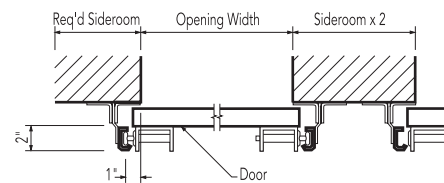
2" (51 mm) track



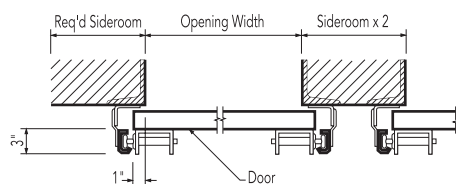
2" (51 mm) track



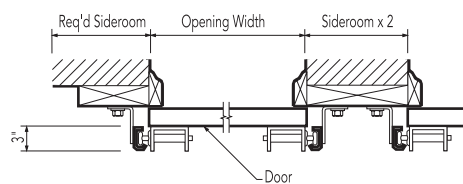
2" (51 mm) track



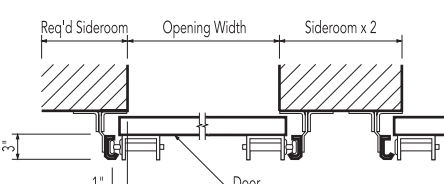
3" (76 mm) track



3" (76 mm) track



3" (76 mm) track



Minimum required sideroom

Track type	2" Track (51 mm)	3" Track (76 mm)
Standard lift	4 1/2" (114 mm)	6 1/2" (165 mm)
Low headroom	9" (229 mm)	10" (254 mm)
Lift clearance	4 1/2" (114 mm)	6 1/2" (165 mm)
Full vertical	4 1/2" (114 mm)	6 1/2" (165 mm)

Minimum required sideroom

Track type	2" Track (51 mm)	3" Track (76 mm)
Standard lift	3 1/2" (89 mm)	5 1/2" (140 mm)
Low headroom	8" (203 mm)	9" (229 mm)
Lift clearance	3 1/2" (89 mm)	5 1/2" (140 mm)
Full vertical	3 1/2" (89 mm)	5 1/2" (140 mm)

Minimum required sideroom

Track type	2" Track (51 mm)	3" Track (76 mm)
Standard lift	4 1/2" (114 mm)	6 1/2" (165 mm)
Low headroom	9" (229 mm)	10" (254 mm)
Lift clearance	4 1/2" (114 mm)	5 1/2" (140 mm)
Full vertical	4 1/2" (114 mm)	5 1/2" (140 mm)

Electric operators

We offer a broad line of electric operators to suit new construction and retrofit applications, as well as unusual or special requirements. In order to improve safety and enhance door and motor life, industry quality assurance guidelines recommend the choice of a single manufacturer for both door and operator applications.

We are one of the only national manufacturers to offer a full line of commercial and industrial doors and operators specifically designed for integral applications.

Model RHX®

Model RHX® is a heavy duty commercial operator designed to operate doors up to 24' (7315 mm) in height and 3696 pounds (1676 kg). Available as either a trolley, sidemount or centermount.



Model RMX®

Model RMX® is our most advanced medium-duty operator. It is designed for quicker installation and hassle-free operation and operates doors up to 14' (4267 mm) in height and 620 pounds (282 kg). It is available as a trolley-type or side-mounted unit.



Model RSX®

Model RSX® is a standard duty commercial operator designed to operate doors up to 24' (7315 mm) in height and 1620 pounds (735 kg). It offers unique features like LimitLock®, SuperBelt™ and 16 digit menu setup.



Operator control options

- Push-button, key or combination stations; surface- or flush-mounted for interior and/or exterior locations
- Vehicle detectors, key card reader, photocell and door timer controls
- Treadle or pull switch stations
- Telephone entry and coded keyboard stations
- Universal programmable door timer
- Radio control systems (24 VAC or 120 VAC)
- Explosion and dust ignition-proof systems

Electric operator selection guide										
	Horsepower/ Newtons	Max. height of door	Max. weight of door	Super Belt™/ Polybelt	Worm gear	Adjustable clutch	Totally enclosed	Continuous duty	Explosion proof	Mounting type
RHX®	1/2 HP, 3/4 HP 1 HP, 3 HP	24' (7315 mm)	3696 lbs (1676 kg)		•	•		•	•	T, S, C
RSX®	1/2 HP, 3/4 HP 1 HP	24' (7315 mm)	1620 (735 kg)	•		•	•	•		T, S, C
RMX®	1/2 HP	14' (4267 mm)	620 (281 kg)	•						T, S

Mounting options:
T=Trolley S=Side mount C= Center mount

Safety recommendations

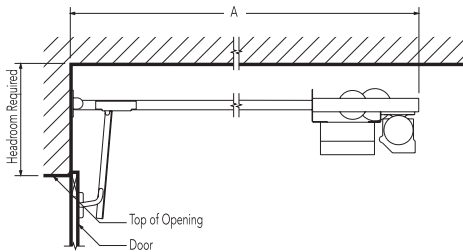
We strongly recommend the use of a primary safety device as defined by UL325 2010. A primary safety device can be approved monitored photo-eyes or an approved monitored sensing edge. If a primary safety device is not installed, a constant contact control switch must be used to close the door. Contact your Overhead Door™ Distributor for more information.



Mounting details

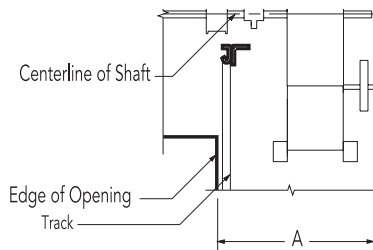
Trolley-type (Drawbar) RMX®, RSX®, RHX®

Trolley-type (Drawbar) operators feature a power unit mounted between, above and to the rear of the horizontal tracks. The drawbar drive provides positive control of the door at all times, making this operator the preferred choice whenever possible. Maximum door width is 20' per drawbar. Door width over 20' requires dual drawbar installation. Available on Models RMX®, RSX® and RHX®.



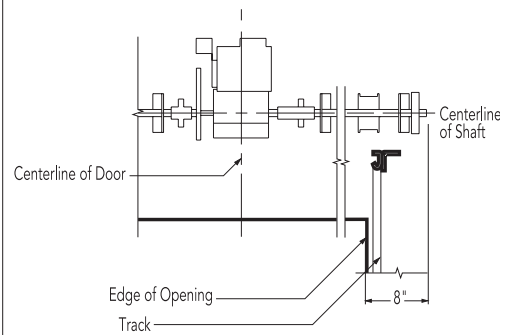
Side mount type (Jackshaft) RMX®, RSX®, RHX®

Side-mounted (Jackshaft) RMX®, RSX®, and RHX® operators feature a power unit mounted on the inside front wall and connected to the crosshead shaft, with an adjustable coupling or drive chain and sprockets.



Center mount type/Jackshaft RSX®, RHX®

Center-mounted (Jackshaft) operators feature a power unit on the front wall above the door opening. No additional backroom is required. Available on models RSX® and RHX®.



Minimum headroom requirements	
RMX®	Track requirements +4 1/2" (114 mm)
RSX®	Track requirements +5" (127 mm)
RHX®	Track requirements +5" (127 mm)

Depth requirements - "A" dimension (backroom)	
RMX®	Door height +4' 0" (1219 mm)
RSX®	Door height +4' 0" (1219 mm)
RHX®	Door height +4' 10" (1219 mm)

"A" dimension - minimum (sideroom)		
	2" track (51 mm)	3" track (76 mm)
RMX®	18 1/2" (470 mm)	19 1/2" (495 mm)
RSX®	21" (533 mm)	22" (559 mm)
RHX®	21" (533 mm)	22" (559 mm)

Minimum headroom requirements	
RSX®	Track requirements +14" (356 mm)
RHX®	Track requirements +23 5/8" (600 mm)



Model 521, solid panel, custom powder coat finish



**Tools to help you
get the job done.**

Architect's Corner

A resource for architects, containing comprehensive technical and resource materials to support your project, including drawings and specifications for commercial doors.

www.overhaddoor.com

The original, innovative choice for unequalled quality and service.

Overhead Door Corporation pioneered the sectional garage door industry, inventing the first sectional garage door in 1921 and the first electric door operator in 1926. Today, we continue to be the industry leader through the strength of our product innovation, superior craftsmanship and outstanding customer support, underscoring a legacy of quality, expertise and integrity. That's why design and construction professionals specify Overhead Door™ products more often than any other brand. Our family of over 400 Overhead Door™ Distributors across the U.S. and Canada not only share our name and logo, but also our commitment to excellence.

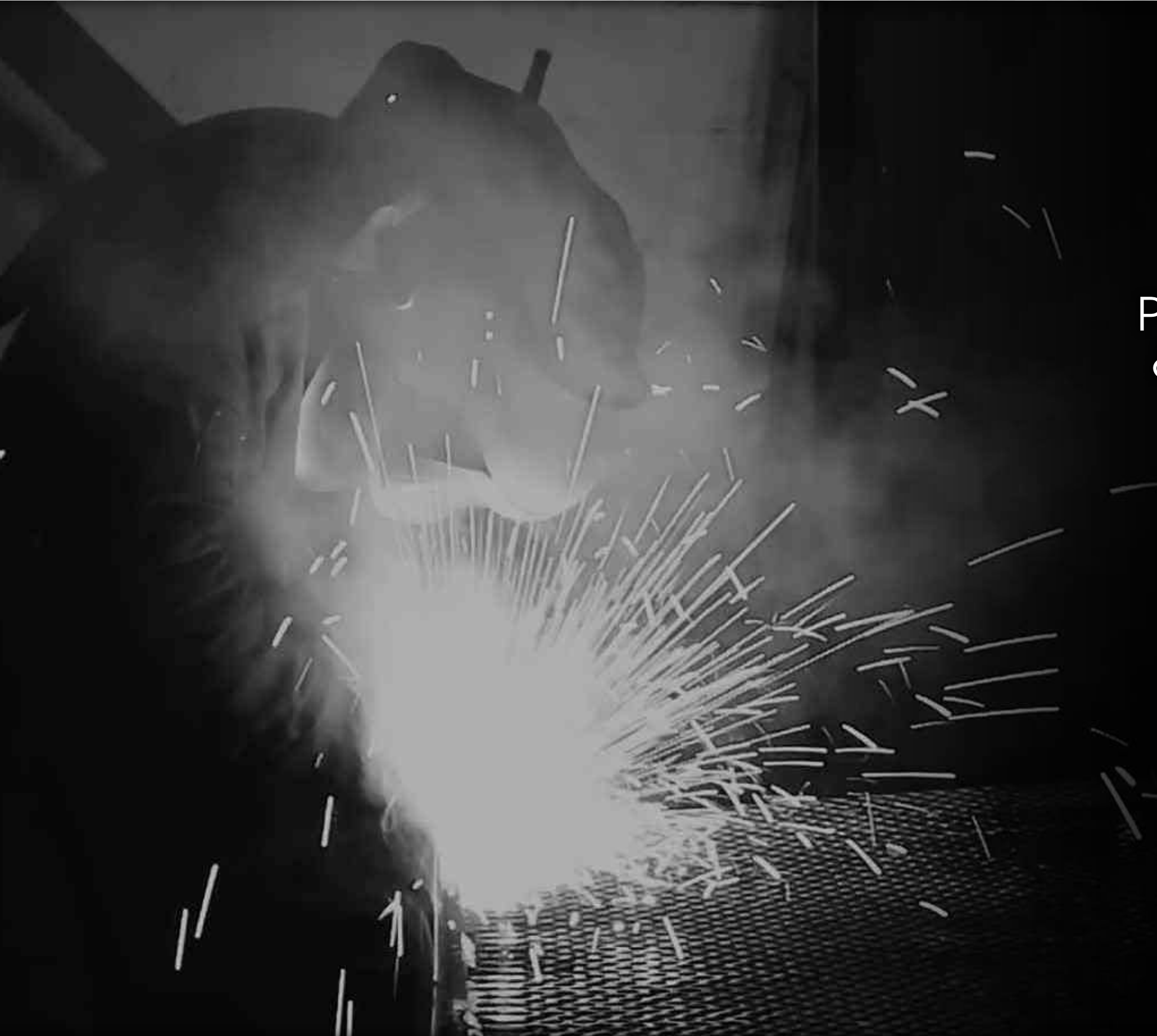
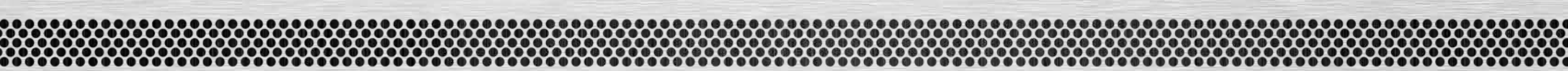


INDUSTRY LEADING
COMMERCIAL & INDUSTRIAL SOLUTIONS

2501 S. State Hwy. 121 Bus., Suite 200, Lewisville, TX 75067
1-800-929-DOOR • sales@overhaddoor.com
overhaddoor.com



Hendrick
ARCHITECTURAL



MANUFACTURER OF PERFORATED METAL PRODUCTS, PROFILE BAR & WEDGE WIRE GRILLES

Rare Aesthetics

Environmentally
Responsible Materials

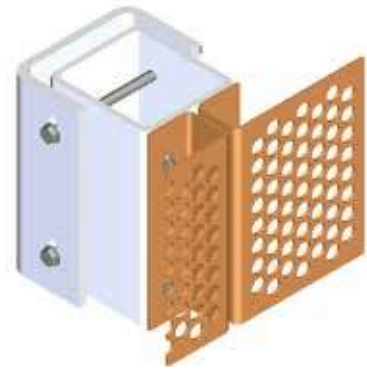
Dynamic Performance
& Energy Efficiency

Low Maintenance



H-CLAD

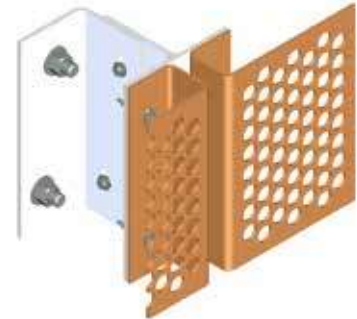
Hendrick's H-CLAD™ is a standardized cladding and mounting system that has been tested and proven to offer practical and functional benefits.



H-CLAD HD

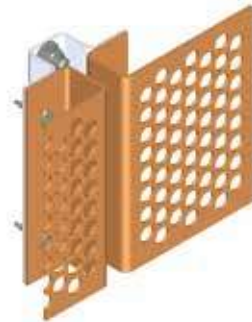
Ideal for...

- Parking Garages
- Larger Cantilevers
- Larger spans between mounting brackets



H-CLAD MD

- Office buildings and over windows
- Minimal Cantilevers
- Medium spans between mounting brackets
- Back lighting friendly
- Slim design



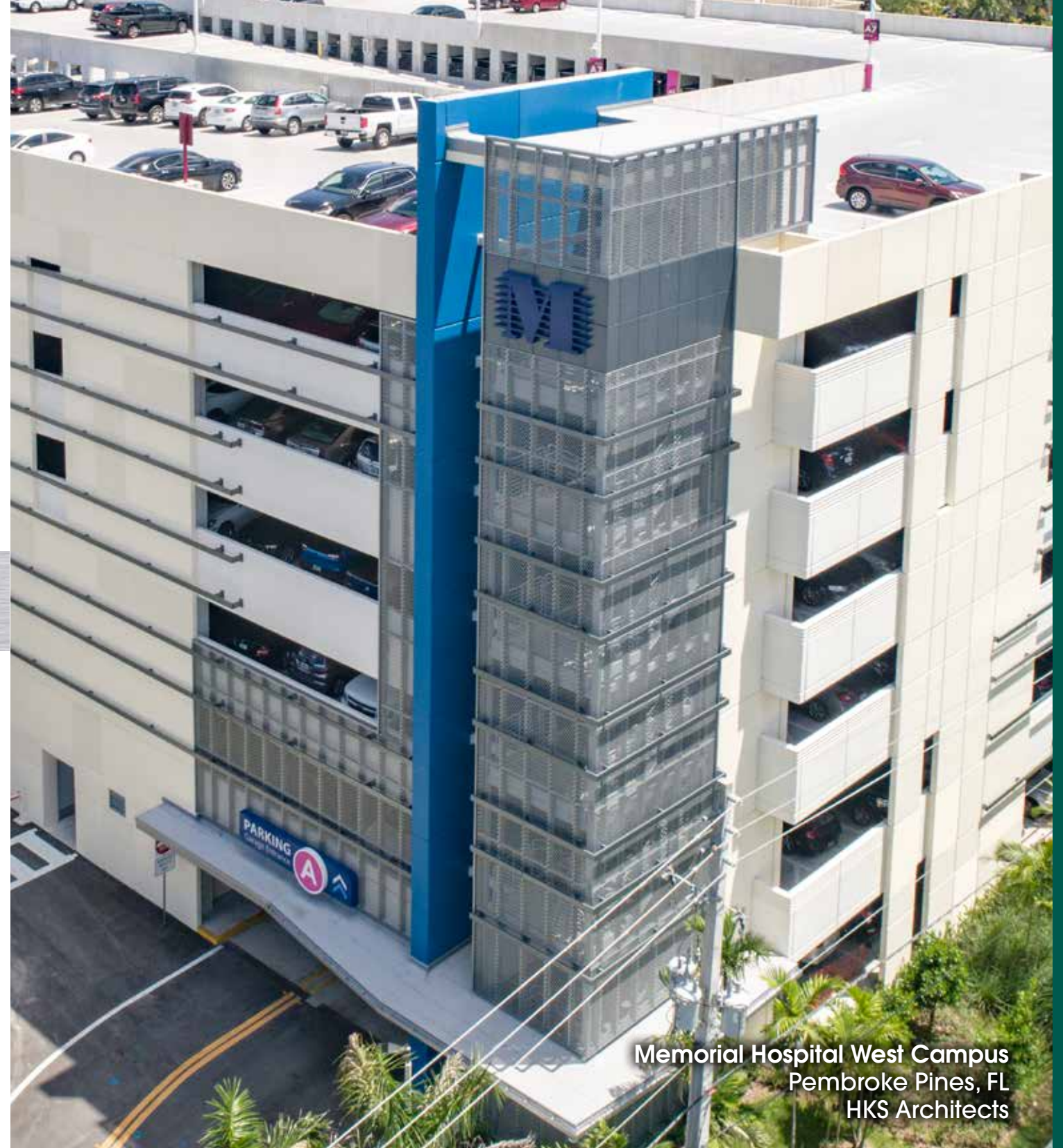
H-CLAD LD

- Interior or solid wall applications
- No cantilevers
- Minimal spans between mounting
- Minimal offset from the building

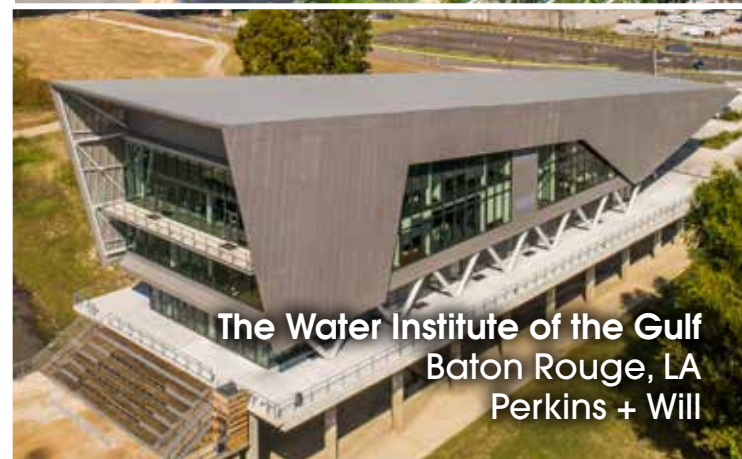
- Aluminum panel thickness of .125" or .190"
- Standard panel widths of 36", 42" or 48"
- Standard panel lengths of 72", 96" or 120"
- 12 standard round perforated patterns with open areas ranging from 23% to 77%
- Designed to withstand sustained winds up to 165 mph (Category 5)
- Multiple finish options offered to ensure the highest quality finish for your project
- Finish warranty options are available up to 20 years
- Concealed fastener panel system design
- All hardware supplied is solid stainless steel

Standard 60° staggered Patterns

- .250" dia. x .500" (23% open area)
- .375" dia. x .625" (33% open area)
- .375" dia. x .750" (23% open area)
- .500" dia. x .750" (40% open area)
- .500" dia. x 1.000" (23% open area)
- .750" dia. x 1.000" (51% open area)
- .750" dia. x 1.250" (33% open area)
- 1.000" dia. x 1.250" (58% open area)
- 1.000" dia. x 2.000" (23% open area)
- 1.500" dia. x 1.750" (67% open area)
- 2.000" dia. x 2.250" (72% open area)
- 3.000" dia. x 3.250" (72% open area)



Memorial Hospital West Campus
Pembroke Pines, FL
HKS Architects



The Water Institute of the Gulf
Baton Rouge, LA
Perkins + Will



Route 9 Library & Innovation Center
New Castle, DE
Perkins + Will

**NIC
ICINE**

MAYO

Mayo Clinic Sports Medicine

Minneapolis, MN

RSP Architects

perforated imaging
custom perforation
aluminum



The IMAGE-CLAD™ process begins with your graphic, image, logo, photo, or text. Our software then converts it into a perforated pattern by varying the size, spacing, and density of the holes. Lastly, our team of expert designers refine the output model to maximize the clarity of the input graphic, image, logo, photo, or text. Hendrick is licensed and authorized under the "688 Patent" to manufacture and sell perforated image panels.

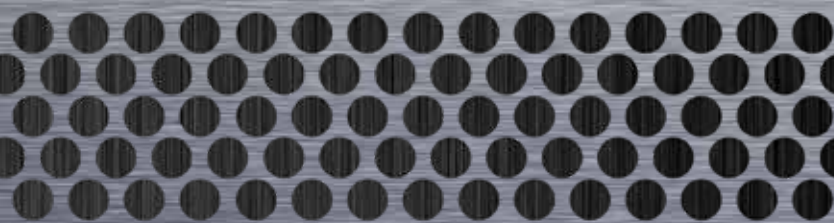
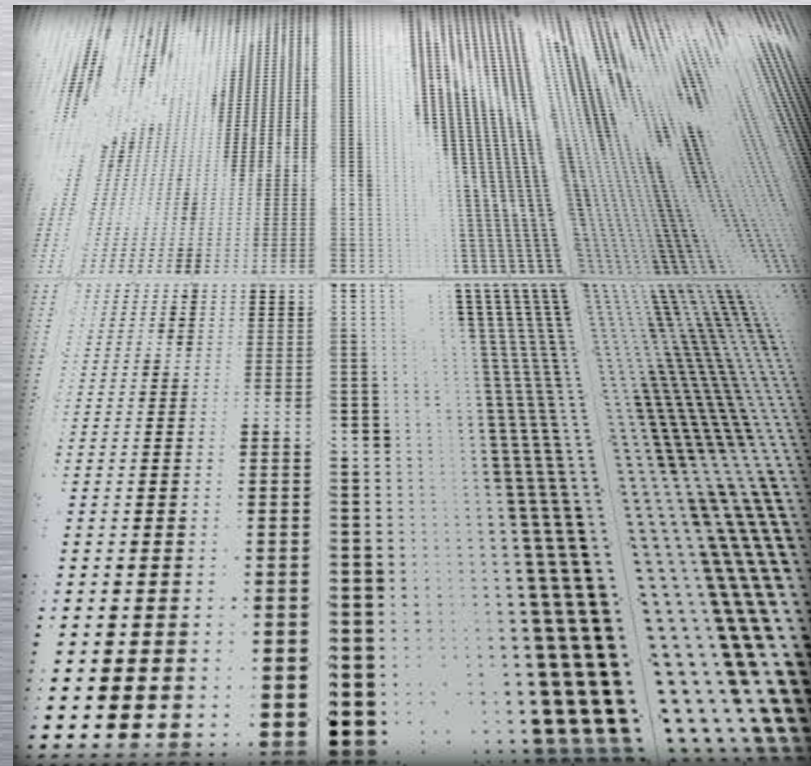


Good Hope Recreation Center

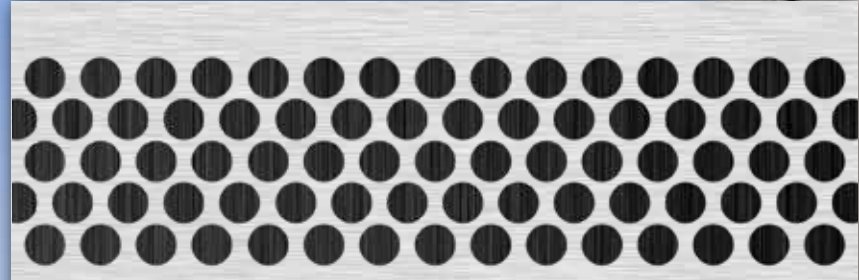
Silver Spring, MD

DLR Group

perforated imaging
custom perforation
aluminum



The IMAGE-CLAD™ process begins with your graphic, image, logo, photo, or text. Our software then converts it into a perforated pattern by varying the size, spacing, and density of the holes. Lastly, our team of expert designers refine the output model to maximize the clarity of the input graphic, image, logo, photo, or text. Hendrick is licensed and authorized under the "688 Patent" to manufacture and sell perforated image panels.



Xilinx

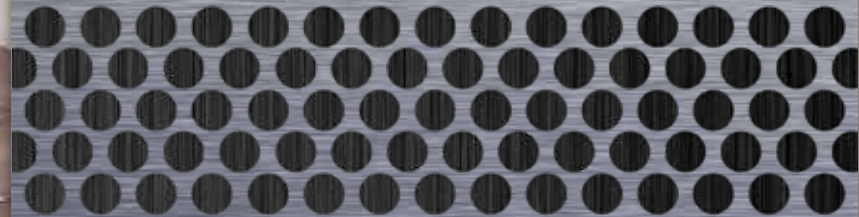
San Jose, CA

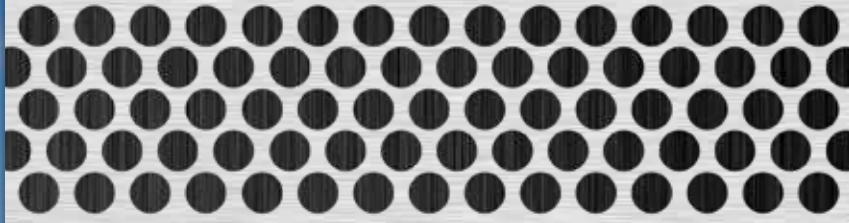
Noll & Tam Architects

custom laser cut façade

36% open area

aluminum



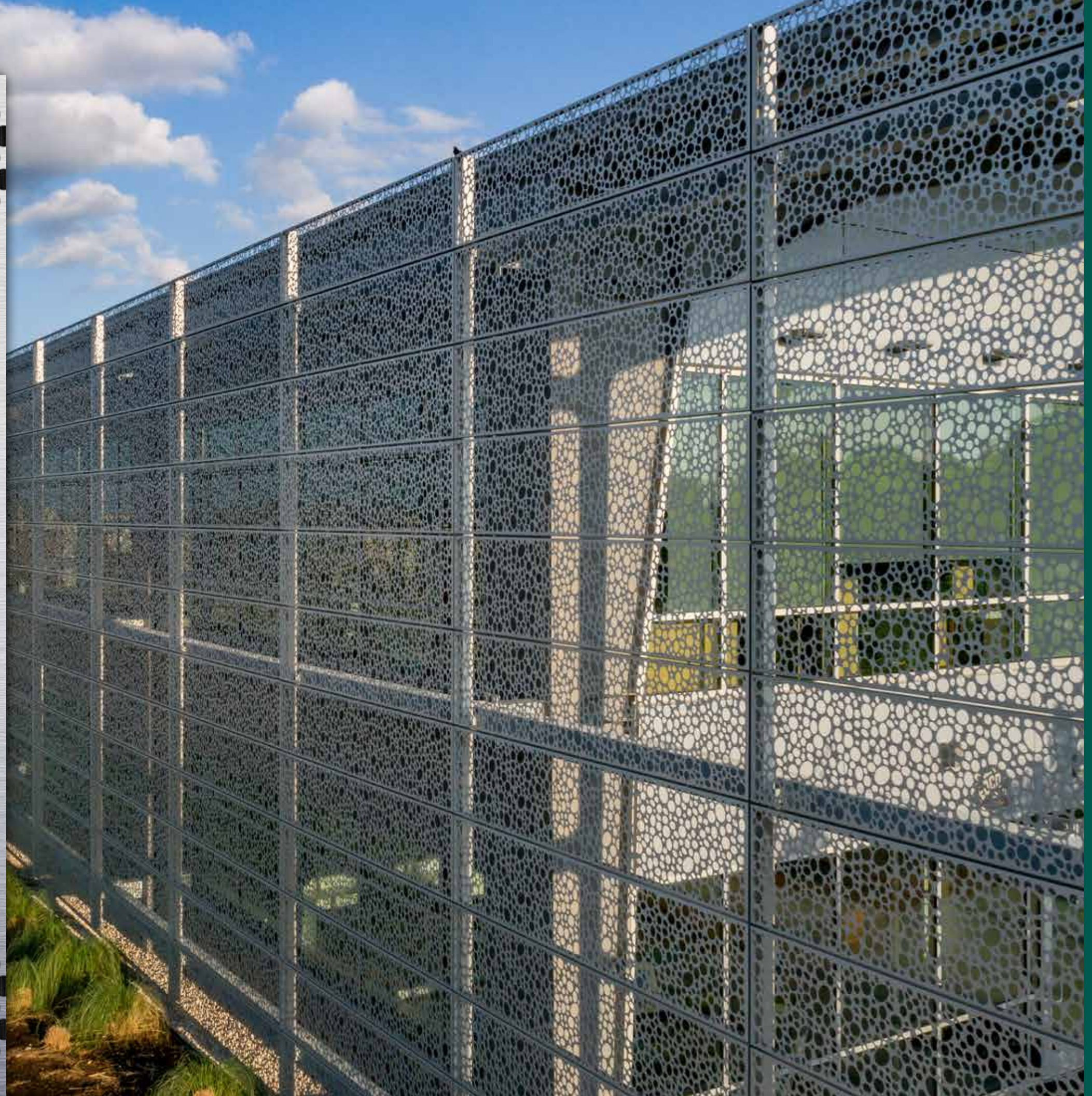
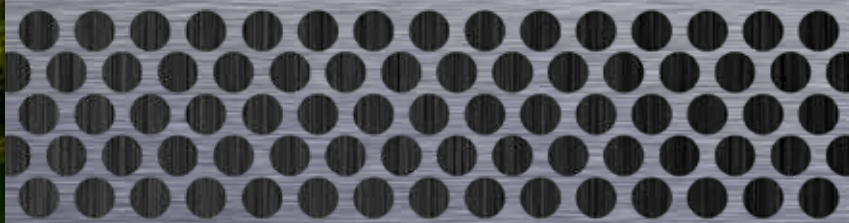


The Lakes at Techridge

Pflugerville, TX

STG Design

custom laser cut panels
56% open area
aluminum



CUSTOM LASER CUTTING



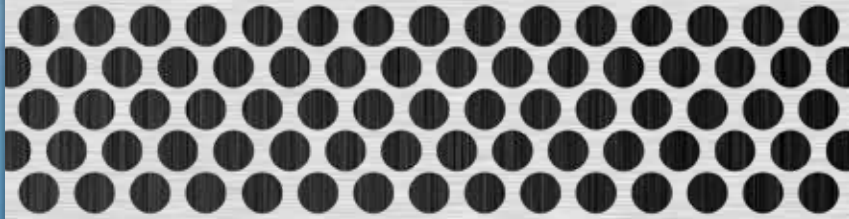
The Melting Pot

Oklahoma City, OK

A.D.G.

perforated cladding
.375" dia. holes | 33% open area
weathered steel



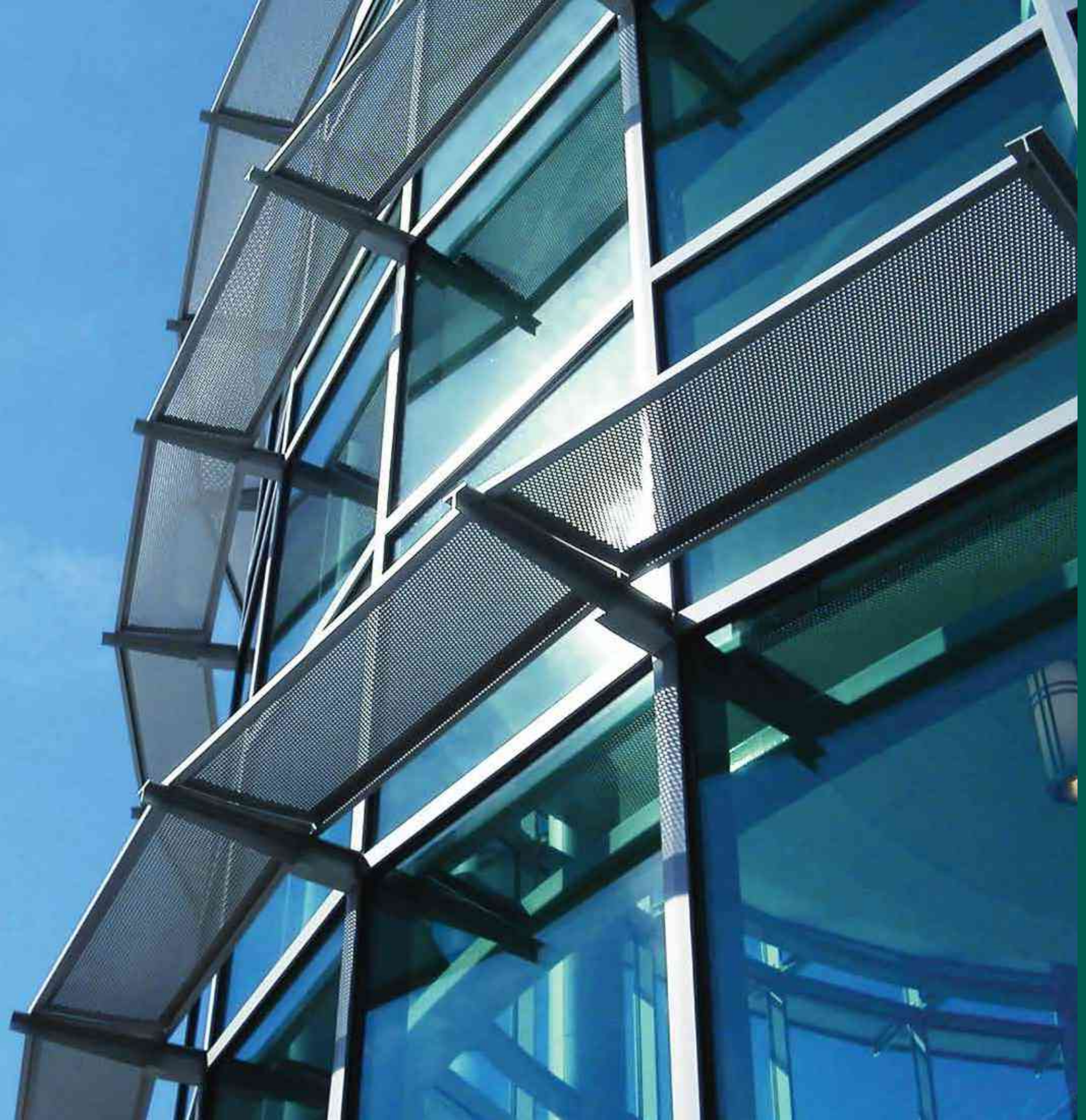
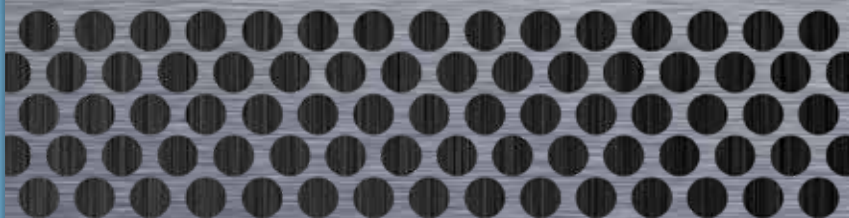


**University of Florida Health
Proton Therapy Institute**

Jacksonville, FL

Tsoi/Kobus & Associates

perforated sunshades
.313" dia. holes | 36% open area
aluminum



PERFORATED SUNSHADES



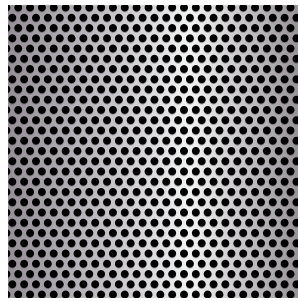
Ponce City Market
Atlanta, GA
S9 Architecture

perforated sunshades
.625" dia. holes | 18% open area
aluminum

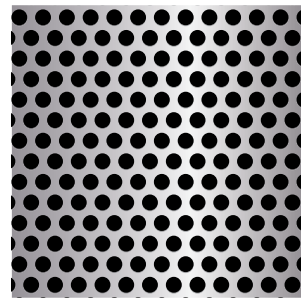


Standard Perforated Patterns

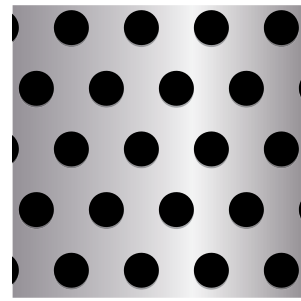
An endless choice of perforated patterns are available, in a variety of shapes, sizes, and materials. The following is a selection of Hendrick's popular patterns.



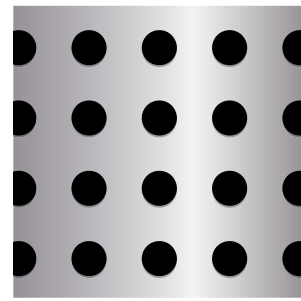
.125" dia. x .188"
staggered
40% open area



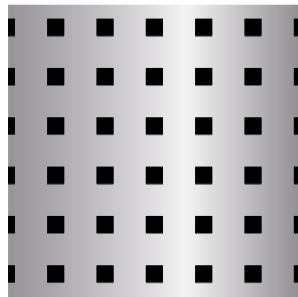
.250" dia. x .375"
staggered
40% open area



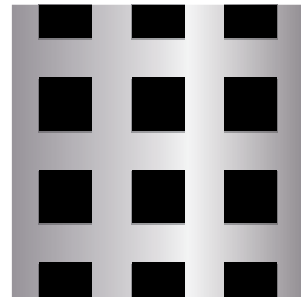
.500" dia. x 1.000"
staggered
23% open area



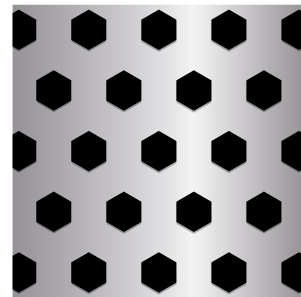
.500" dia. x 1.000"
straight
20% open area



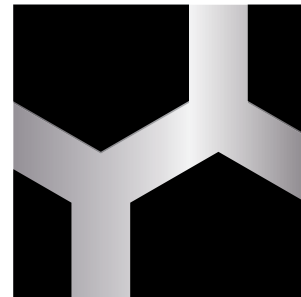
.250" sqr. x .750"
straight
11% open area



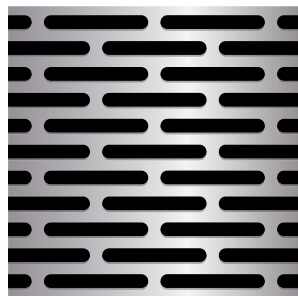
.750" sqr. x 1.313"
straight
33% open area



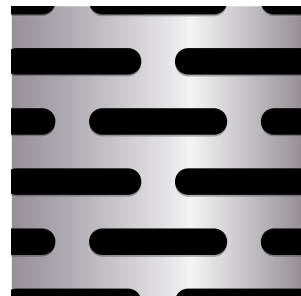
.500" hex. x 1.000"
staggered
25% open area



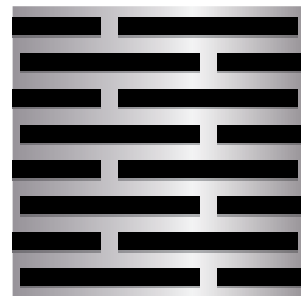
2.598" hex. x 3.464"
staggered
56% open area



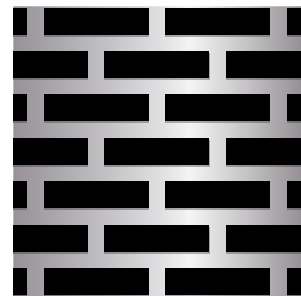
.188" x 1.500"
obround on .375"
staggered
43% open area



.375" x 2.000"
obround on .875"
staggered
33% open area

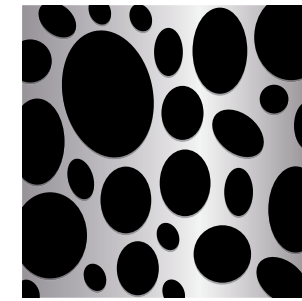


.250" x 2.500 rec.
on .500"
staggered
45% open area

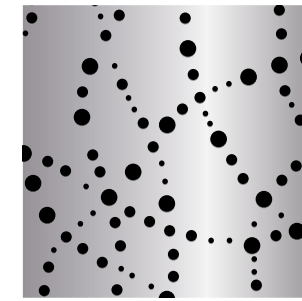


.375" x 1.500" rec.
on .625"
staggered
51% open area

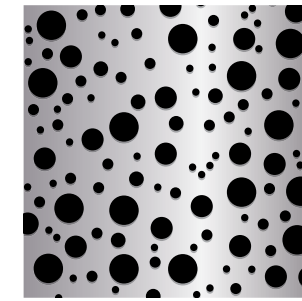
Designer Series Perforated Patterns



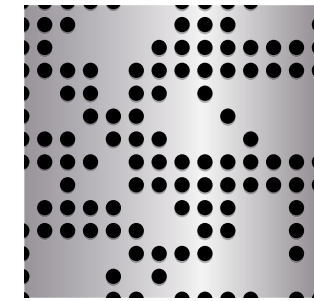
Austin



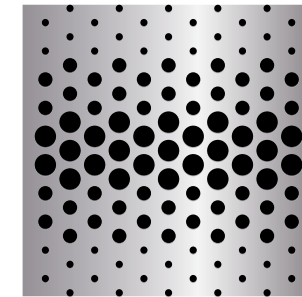
Bubble Trail



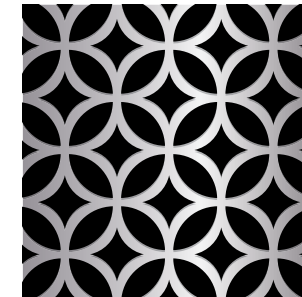
Bubbles



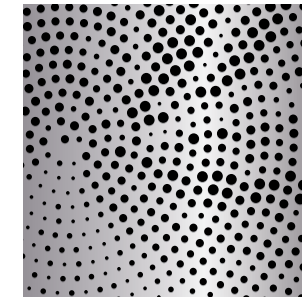
Digital



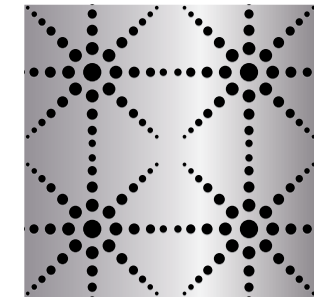
Horizon



Lotus



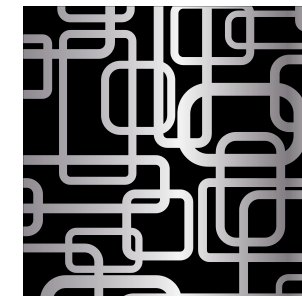
Spiral



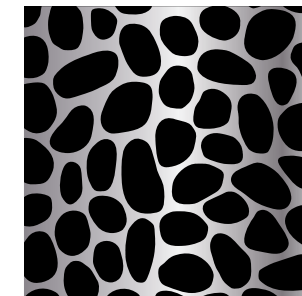
Starburst

Laser Patterns

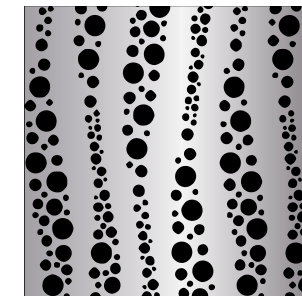
Hendrick's newest 8kW fiber laser removes several obstacles for precise custom designs when cutting metal.



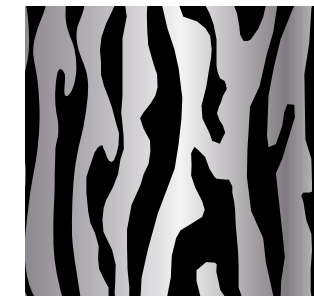
Maze



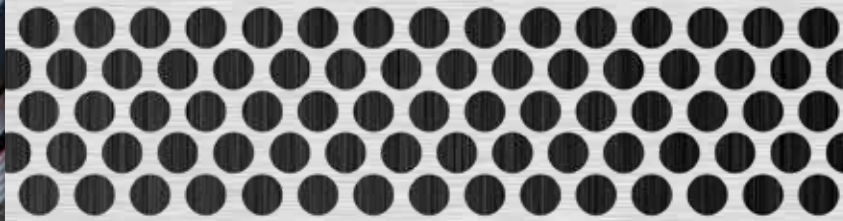
River Stone



Seaweed



Tree Bark



Get Air

Pomona, CA

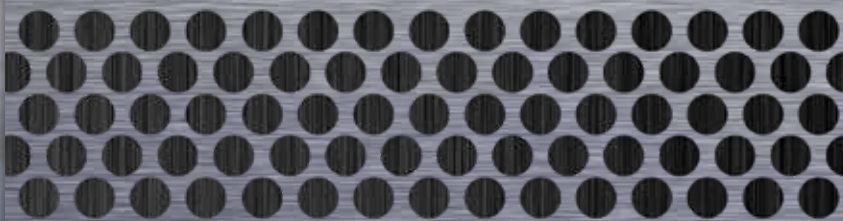
Wheeler & Wheeler Architects

perforated corrugated panels

BWR360 profile

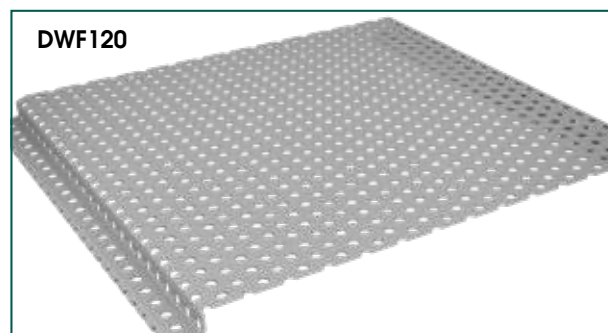
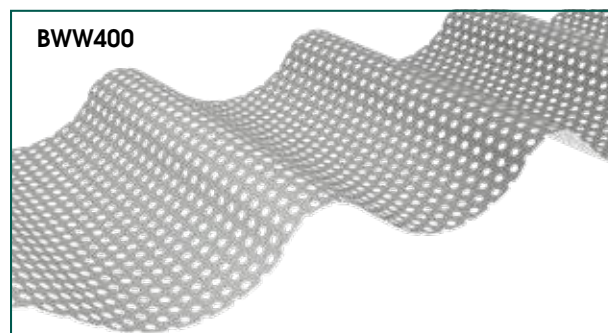
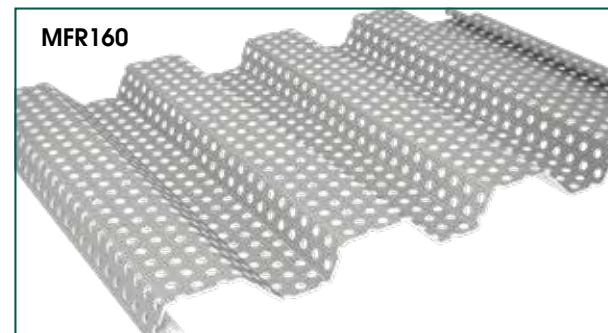
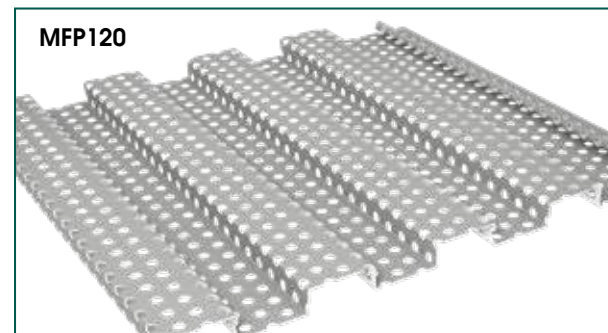
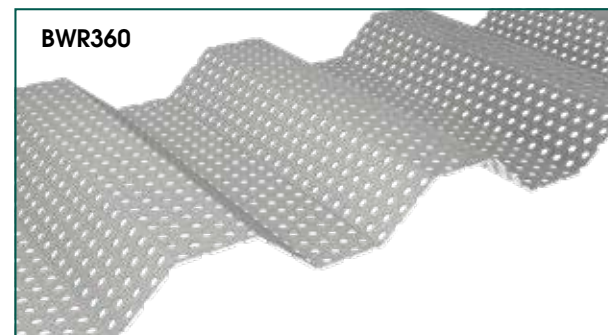
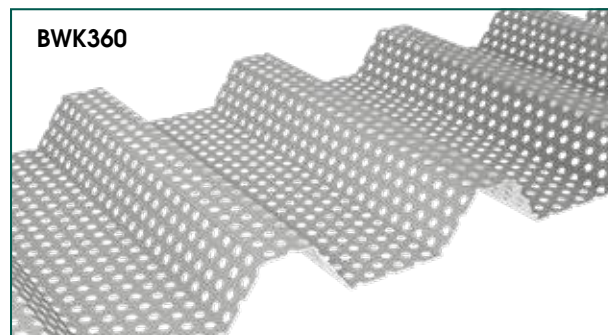
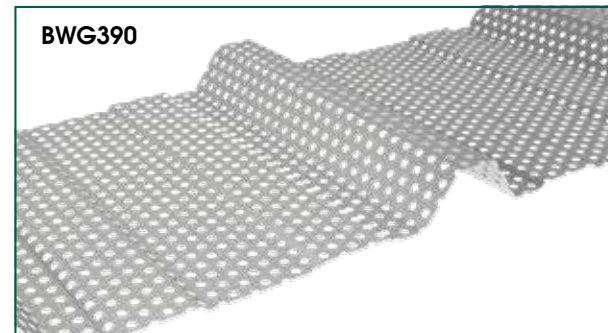
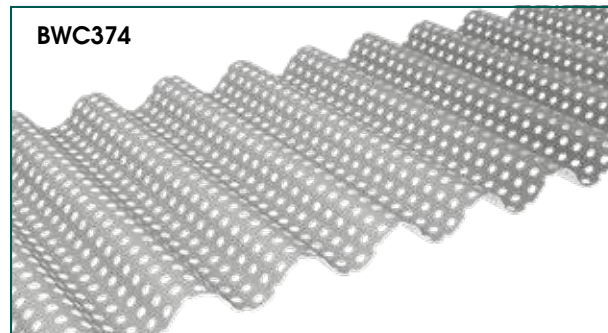
.125" dia. holes | 30% open area

aluminum



Perforated Corrugated Profiles

Eight standard hole patterns are offered, as well as custom options to fit any project's design intent. The panels are available in a selection of aluminum thicknesses, panel profiles, and colors.



Open Area for Standard 60° Staggered Hole Patterns by Profile

	BWC374	BWG390	BWK360	BWR360	BWW400	DWF120	MFP120	MFR160
.125" dia. x .188"	54%	51%	54%	51%	51%	41%	62%	61%
.125" dia. x .218"	40%	38%	40%	38%	37%	31%	45%	45%
.125" dia. x .250"	30%	29%	31%	29%	29%	23%	35%	34%
.125" dia. x .375"	14%	13%	14%	13%	13%	10%	15%	15%
.188" dia. x .313"	44%	42%	44%	42%	41%	34%	50%	50%
.250" dia. x .500"	29%	28%	30%	28%	28%	23%	34%	33%
.375" dia. x .500"	66%	63%	67%	63%	62%	51%	76%	75%
.375" dia. x .563"	52%	50%	53%	50%	49%	40%	60%	59%

Aluminum Options

	BWC374	BWG390	BWK360	BWR360	BWW400	DWF120	MFP120	MFR160
.032"	✓	✓	✓	✓	✓	✓	✓	✓
.040"	✓	✓	✓	✓		✓	✓	✓
.050"	✓			✓		✓	✓	✓

- ✓ Over 30 standard colors
- ✓ Color matched trim
- ✓ Color matched fasteners



SunTrust Park

Atlanta, GA

HGOR & Aqua Underground

curved Profile Bar grating
B12 bars | .188" bar opening
stainless steel



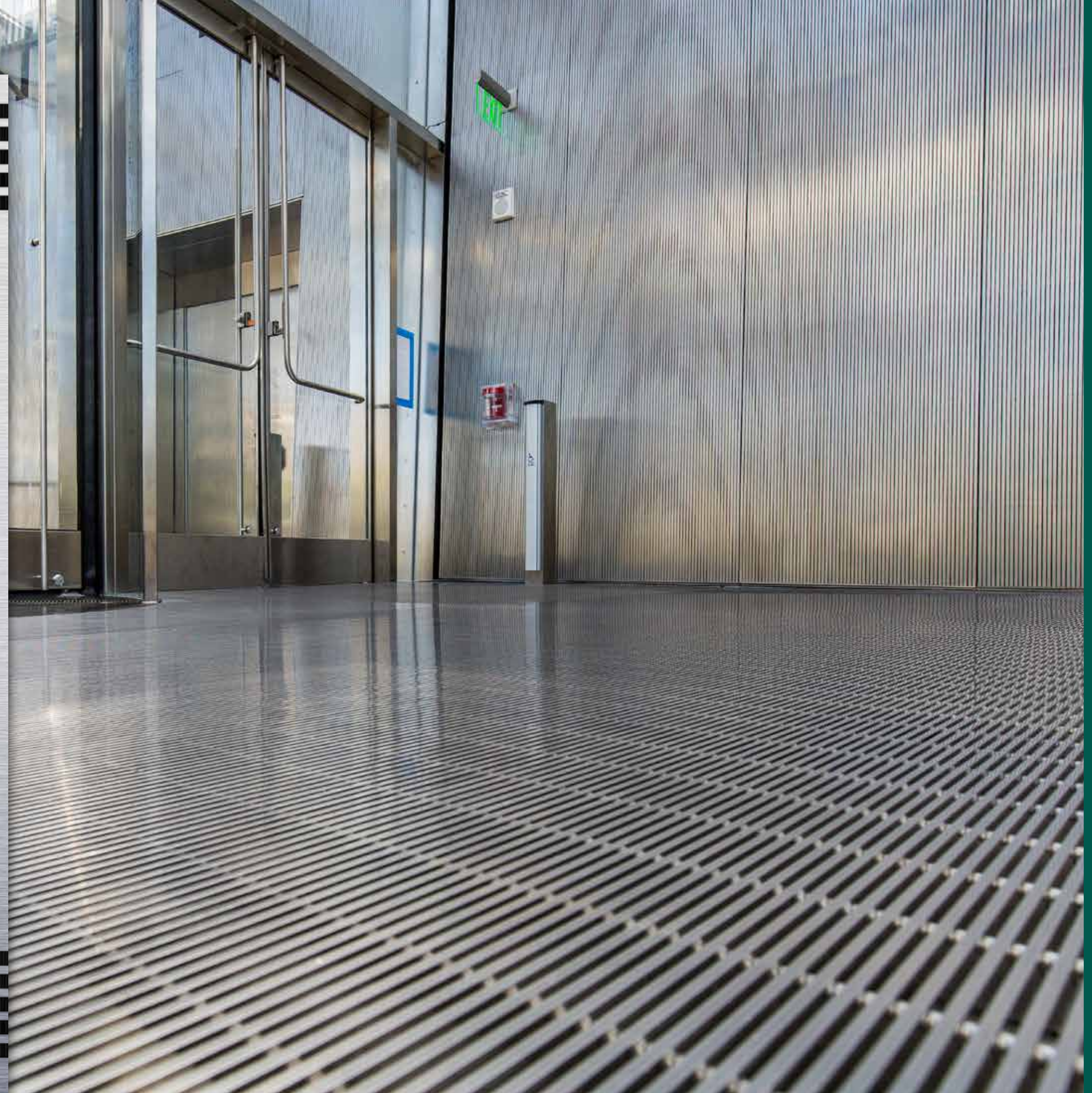
Gateway Arch Museum

St. Louis, MO

*Cooper Robertson & James Carpenter
Design Associates*

Profile Bar entrance grilles
B12 bars | .125" bar opening
stainless steel

Profile Bar wall panels
T24 bars | .125" bar opening
stainless steel





Buckhead

Atlanta, GA

Hoerr Schaudt

14' dia. Profile Bar tree grating
B9 bars | .188" bar opening
stainless steel



Holmberg Pedestrian Bridge

Chattanooga, TN


Ross Glass & Aluminum

Profile Bar grating with slip resistant coating
T16 bars | .188" bar opening
stainless steel

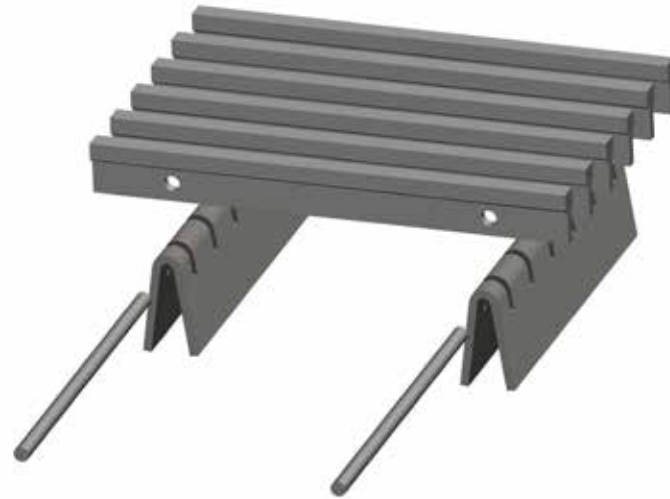


PROFILE BAR BRIDGE

Profile Bar

Hendrick's Profile Bar  is manufactured using a mechanically interlocked and proprietary method of construction, making it one of the strongest systems available on the market. It's perfect for applications that require high strength or a very flat surface.

- ✓ Corrosion Resistant
- ✓ Design Flexibility
- ✓ Strength
- ✓ Interlocked Construction (non-welded)

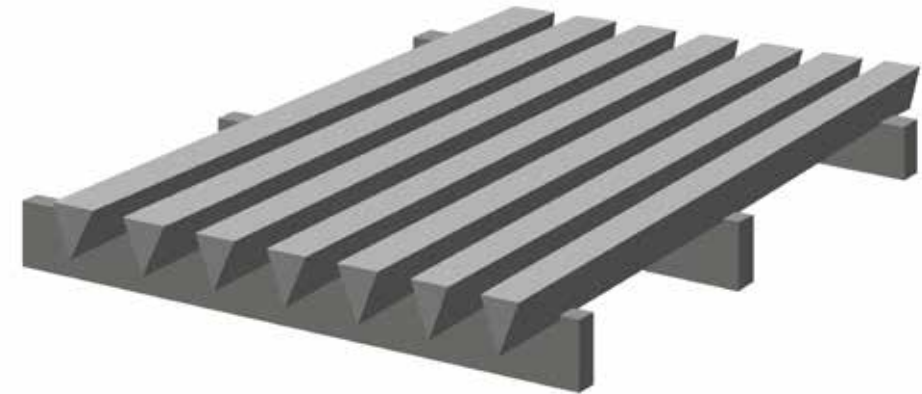


	B69	B6S	B6	B9	B12S	B12	B16	T9M	T9	F12	T12	T16	T24
Ceiling Panels	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Column Covers	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Entrance Grilles	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Tree Grating	✓			✓		✓	✓		✓	✓	✓	✓	✓
Wall Cladding	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ventilation Grilles	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Custom Applications	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Material Options:	B69	B6S	B6	B9	B12S	B12	B16	T9M	T9	F12	T12	T16	T24
Aluminum				✓		✓						✓	
Stainless Steel	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Wedge Wire

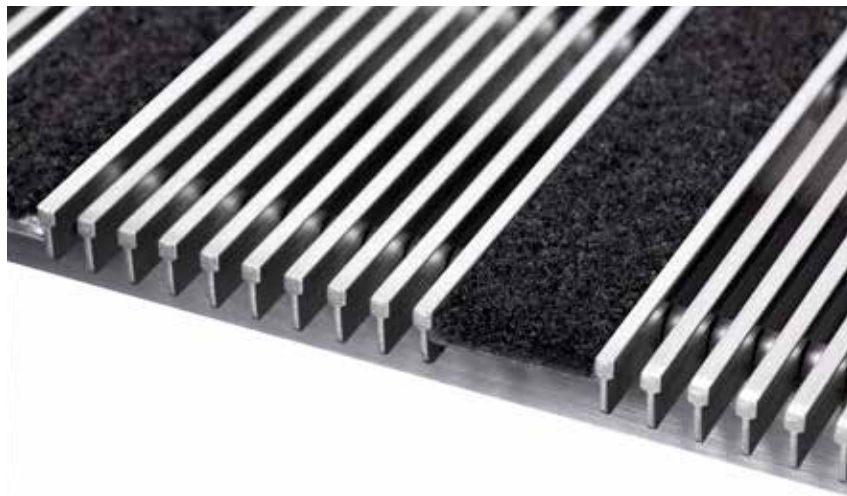
Hendrick's resistance welded wedge wire, also known as profile wire or v-wire, is manufactured by wrapping wire helically around supports that are resistance welded together. It can be fabricated to a variety of shapes, sizes, and open areas. The result is a very strong product with a smooth surface that is resistant to clogging. This makes wedge wire advantageous for corrosion resistance and ADA compliant applications.



	69V	90V	125V
Ceiling Panels	✓	✓	✓
Column Covers	✓	✓	✓
Entrance Grilles	✓	✓	✓
Tree Grating	✓	✓	✓
Wall Cladding	✓	✓	✓
Ventilation Grilles	✓	✓	✓
Custom Applications	✓	✓	✓

Material Options:	69V	90V	125V
Stainless Steel	✓	✓	✓

Profile Bar with Carpet Insert



Carpet Insert Width = 1"
Recommended 4" max spacing between inserts
Inserts designed to be slid into place

Profile Bar with Anti-Slip Coating



A. 1" wide coated bars with recommended 4" max spacing



B. 1/2" wide coated bars with recommended 4" max spacing



C. Coated on alternating profile bars

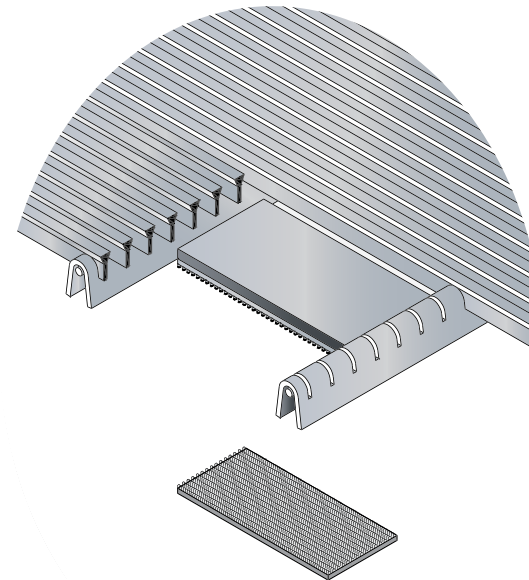
D. Coated on 100% of grille's top surface (not pictured)

Other Finishes

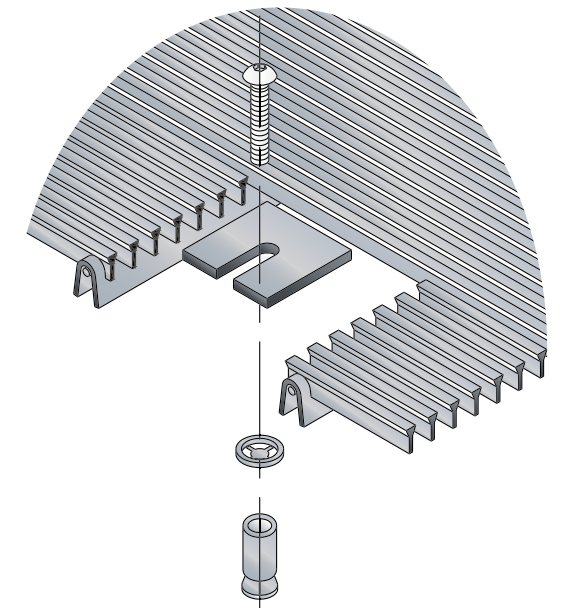
- #4 Satin
- ALGRIP (Profile Bar only)
- Anodized Profile Bar only)
- Bead-blasted
- Matte (non-directional)
- Painted
- Powder-coated
- Sandblasted

Mounting Options

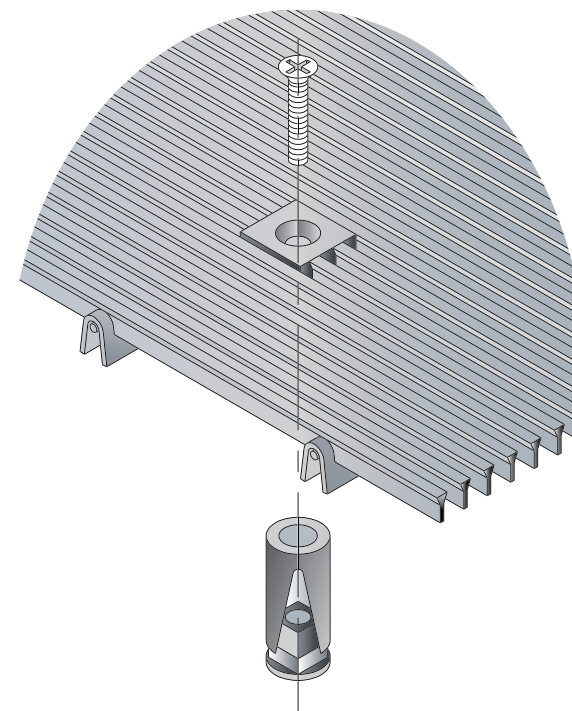
EZ Loc Mounting System



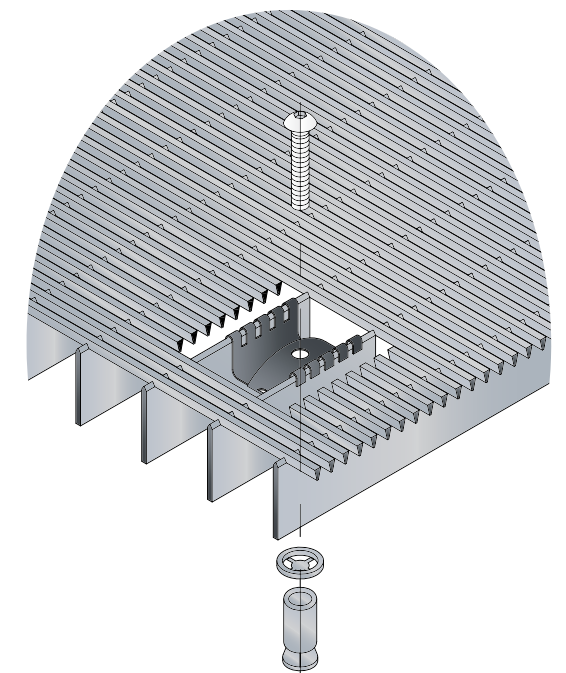
Hidden Mounting Tab System



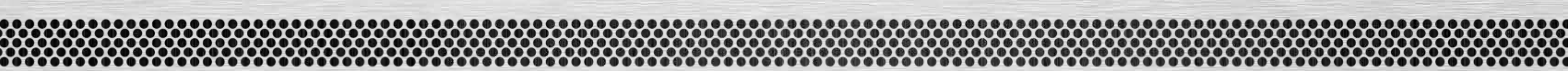
Surface Block Mounting System



Hidden Hold-Down Clip System



*Option for Wedge Wire Only



Stair Components



Mechanical Equipment Screens



Ceiling Panels



Ventilation Grilles



Guardrails





















































Signage

ADDITIONAL APPLICATIONS

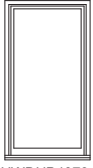
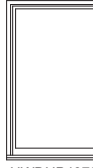
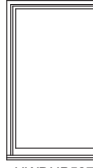
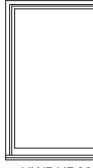

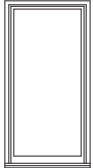
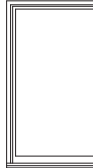
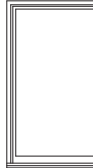
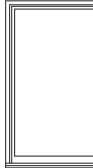

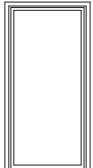
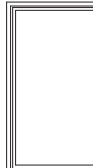
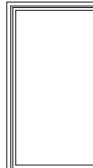
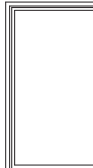



WOOD DOUBLE HUNG PICTURE

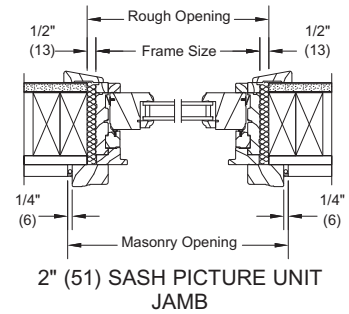
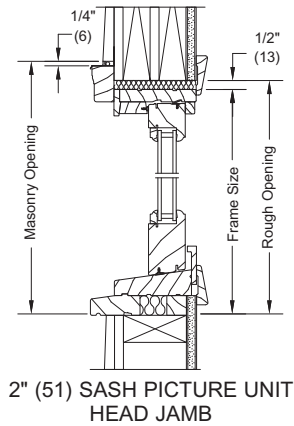
MO (mm)	3-8 1/2 (1130)	4-4 1/2 (1334)	4-8 1/2 (1435)	5-4 1/2 (1638)	6-0 1/2 (1842)
RO (mm)	3-6 3/8 (1076)	4-2 3/8 (1280)	4-6 3/8 (1381)	5-2 3/8 (1584)	5-10 3/8 (1788)
FS (mm)	3-5 3/8 (1051)	4-1 3/8 (1254)	4-5 3/8 (1356)	5-1 3/8 (1559)	5-9 3/8 (1762)
DLO (mm)	2-10 15/16 (887)	3-6 15/16 (1091)	3-10 15/16 (1192)	4-6 15/16 (1395)	5-2 15/16 (1599)
3-6 9/16 (1081)					
3-5 1/2 (1054)					
3-5 (1041)					
2-8 1/4 (819)					
3-10 9/16 (1183)					
3-9 1/2 (1156)					
3-9 (1143)					
3-0 1/4 (921)					
4-2 9/16 (1284)					
4-1 1/2 (1257)					
4-1 (1245)					
3-4 1/4 (1022)					
4-8 9/16 (1386)					
4-5 1/2 (1359)					
4-5 (1346)					
3-8 1/4 (1124)					
4-10 9/16 (1488)					
4-9 1/2 (1461)					
4-9 (1448)					
4-0 1/4 (1226)					
5-2 9/16 (1588)					
5-1 1/2 (1562)					
5-1 (1549)					
4-4 1/4 (1327)					
5-6 9/16 (1691)					
5-5 1/2 (1664)					
5-5 (1651)					
4-8 1/4 (1429)					
5-10 9/16 (1792)					
5-9 1/2 (1765)					
5-9 (1753)					
5-0 1/4 (1530)					
6-2 9/16 (1894)					
6-1 1/2 (1867)					
6-1 (1854)					
5-4 1/4 (1632)					
6-8 9/16 (1986)					
6-5 1/2 (1969)					
6-5 (1956)					
5-8 1/4 (1734)					

Ultimate Wood Double Hung Picture: UWDHP

WOOD DOUBLE HUNG PICTURE

MO (mm)	3-8 1/2 (1130)	4-4 1/2 (1334)	4-8 1/2 (1435)	5-4 1/2 (1638)	6-0 1/2 (1842)
RO (mm)	3-6 3/8 (1076)	4-2 3/8 (1280)	4-6 3/8 (1381)	5-2 3/8 (1584)	5-10 3/8 (1788)
FS (mm)	3-5 3/8 (1051)	4-1 3/8 (1254)	4-5 3/8 (1356)	5-1 3/8 (1559)	5-9 3/8 (1762)
DLO (mm)	2-10 15/16 (887)	3-6 15/16 (1091)	3-10 15/16 (1192)	4-6 15/16 (1395)	5-2 15/16 (1599)
6-10 9/16 (2097)					
6-9 1/2 (2070)					
6-9 (2057)					
6-0 1/4 (1635)					
7-6 9/16 (2300)					
7-5 1/2 (2273)					
7-5 (2261)					
6-8 1/4 (2038)					
7-10 9/16 (2402)					
7-9 1/2 (2375)					
7-9 (2362)					
7-0 1/4 (2140)					

CONSTRUCTION DETAILS



Details and Elevations not to scale.

































































































• 2" Picture Sash shown. 1 5/8" also available.

Please consult your local Marvin representative for more information.

For further details and drawings visit the 'Tools and Documents' section at Marvin.com.

AWNING / AWNING PUSH OUT

MO (mm)	1 - 4 1/2 (419)	1 - 6 1/2 (469)	1 - 8 1/2 (520)	2 - 1/2 (622)	2 - 2 1/2 (673)	2 - 4 1/2 (723)	2 - 6 1/2 (774)	2 - 8 1/2 (825)
RO (mm)	1 - 5 (431)	1 - 7 (482)	1 - 9 (533)	2 - 1 (635)	2 - 3 (688)	2 - 5 (736)	2 - 7 (787)	2 - 9 (838)
FS (mm)	1 - 4 (406)	1 - 6 (457)	1 - 8 (508)	2 - 0 (609)	2 - 2 (660)	2 - 4 (711)	2 - 6 (762)	2 - 8 (812)
DLO (mm)	0 - 10 13/64 (259)	1 - 0 13/64 (310)	1 - 2 13/64 (361)	1 - 6 13/64 (462)	1 - 8 13/64 (513)	1 - 10 13/64 (564)	2 - 0 13/64 (615)	2 - 2 13/64 (666)

1 - 1 3/8 (399)								
1 - 1 5/8 (346)	UAWN1614	UAWN1814	UAWN2014	UAWN2414	UAWN2614	UAWN2814	UAWN3014	UAWN3214
1 - 1 1/8 (333)	UAWNPO1614	UAWNPO1814	UAWNPO2014	UAWNPO2414	UAWNPO2614	UAWNPO2814	UAWNPO3014	UAWNPO3214
1 - 3 3/8 (390)								
1 - 3 5/8 (386)	UAWN1616	UAWN1816	UAWN2016	UAWN2416	UAWN2616	UAWN2816	UAWN3016	UAWN3216
1 - 3 1/8 (384)	UAWNPO1616	UAWNPO1816	UAWNPO2016	UAWNPO2416	UAWNPO2616	UAWNPO2816	UAWNPO3016	UAWNPO3216
0 - 7 21/64 (186)								
1 - 5 3/8 (441)	UAWN1618	UAWN1818	UAWN2018	UAWN2418	UAWN2618	UAWN2818	UAWN3018	UAWN3218
1 - 5 5/8 (447)	UAWNPO1618	UAWNPO1818	UAWNPO2018	UAWNPO2418	UAWNPO2618	UAWNPO2818	UAWNPO3018	UAWNPO3218
1 - 5 1/8 (434)								
1 - 7 3/8 (492)	UAWN1620	UAWN1820	UAWN2020	UAWN2420	UAWN2620	UAWN2820	UAWN3020	UAWN3220
1 - 7 5/8 (498)	UAWNPO1620	UAWNPO1820	UAWNPO2020	UAWNPO2420	UAWNPO2620	UAWNPO2820	UAWNPO3020	UAWNPO3220
1 - 7 1/8 (485)								
1 - 11 3/8 (593)	UAWN1624	UAWN1824	UAWN2024	UAWN2424	UAWN2624	UAWN2824	UAWN3024	UAWN3224
1 - 11 5/8 (600)	UAWNPO1624	UAWNPO1824	UAWNPO2024	UAWNPO2424	UAWNPO2624	UAWNPO2824	UAWNPO3024	UAWNPO3224
1 - 11 1/8 (587)								
1 - 5 21/64 (440)	UAWN1628	UAWN1828	UAWN2028	UAWN2428	UAWN2628	UAWN2828	UAWN3028	UAWN3228
1 - 5 1/8 (434)	UAWNPO1628	UAWNPO1828	UAWNPO2028	UAWNPO2428	UAWNPO2628	UAWNPO2828	UAWNPO3028	UAWNPO3228
2 - 3 3/8 (695)								
2 - 3 5/8 (701)	UAWN1632	UAWN1832	UAWN2032	UAWN2432	UAWN2632	UAWN2832	UAWN3032	UAWN3232
2 - 3 1/8 (688)	UAWNPO1632	UAWNPO1832	UAWNPO2032	UAWNPO2432	UAWNPO2632	UAWNPO2832	UAWNPO3032	UAWNPO3232
2 - 3 1/8 (688)								
1 - 9 21/64 (542)	UAWN1636	UAWN1836	UAWN2036	UAWN2436	UAWN2636	UAWN2836	UAWN3036	UAWN3236
1 - 9 1/8 (529)	UAWNPO1636	UAWNPO1836	UAWNPO2036	UAWNPO2436	UAWNPO2636	UAWNPO2836	UAWNPO3036	UAWNPO3236
2 - 7 3/8 (796)								
2 - 7 5/8 (803)	UAWN1640	UAWN1840	UAWN2040	UAWN2440	UAWN2640	UAWN2840	UAWN3040	UAWN3240
2 - 7 1/8 (790)	UAWNPO1640	UAWNPO1840	UAWNPO2040	UAWNPO2440	UAWNPO2640	UAWNPO2840	UAWNPO3040	UAWNPO3240
2 - 1 21/64 (643)								
2 - 7 3/8 (698)	UAWN1644	UAWN1844	UAWN2044	UAWN2444	UAWN2644	UAWN2844	UAWN3044	UAWN3244
2 - 7 5/8 (704)	UAWNPO1644	UAWNPO1844	UAWNPO2044	UAWNPO2444	UAWNPO2644	UAWNPO2844	UAWNPO3044	UAWNPO3244
2 - 11 3/8 (898)								
3 - 3 3/8 (1000)	UAWN1648	UAWN1848	UAWN2048	UAWN2448	UAWN2648	UAWN2848	UAWN3048	UAWN3248
3 - 3 5/8 (1006)	UAWNPO1648	UAWNPO1848	UAWNPO2048	UAWNPO2448	UAWNPO2648	UAWNPO2848	UAWNPO3048	UAWNPO3248
3 - 3 1/8 (993)								
2 - 9 21/64 (647)	UAWN1650	UAWN1850	UAWN2050	UAWN2450	UAWN2650	UAWN2850	UAWN3050	UAWN3250
2 - 9 1/8 (634)	UAWNPO1650	UAWNPO1850	UAWNPO2050	UAWNPO2450	UAWNPO2650	UAWNPO2850	UAWNPO3050	UAWNPO3250

Ultimate Awning: UAWN
 Ultimate Awning Push Out: UAWNPO

Details and Elevations not to scale.
 • Ultimate Awning Push Out not available in frame size heights greater than 47 1/8".

AWNING / AWNING PUSH OUT

MO (mm)	3 - 1/2 (927)	3 - 4 1/2 (1028)	4 - 1/2 (1232)	4 - 8 1/2 (1435)	5 - 1/2 (1537)	5 - 4 1/2 (1638)	6 - 1/2 (1842)
RO (mm)	3 - 1 (939)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)	5 - 5 (1651)	6 - 1 (1854)
FS (mm)	3 - 0 (914)	3 - 4 (1016)	4 - 0 (1219)	4 - 8 (1422)	5 - 0 (1524)	5 - 4 (1626)	6 - 0 (1829)
DLO (mm)	2 - 6 13/64 (767)	2 - 10 13/64 (869)	3 - 6 13/64 (1072)	4 - 2 13/64 (1275)	4 - 6 13/64 (1377)	4 - 10 13/64 (1478)	5 - 6 13/64 (1682)








































1 - 1 3/8 (339) 1 - 1 5/8 (346) 1 - 1 1/8 (333) 0 - 7 21/64 (186)	 UAWN3614 UAWNPO3614	 UAWN4014 UAWNPO4014	 UAWN4814 UAWNPO4814	 UAWN5614 UAWNPO5614	 UAWN6014 UAWNPO6014	 UAWN6414 UAWNPO6414	 UAWN7214 UAWNPO7214
1 - 3 3/8 (390) 1 - 3 5/8 (396) 1 - 3 1/8 (384) 0 - 9 21/64 (237)	 UAWN3616 UAWNPO3616	 UAWN4016 UAWNPO4016	 UAWN4816 UAWNPO4816	 UAWN5616 UAWNPO5616	 UAWN6016 UAWNPO6016	 UAWN6416 UAWNPO6416	 UAWN7216 UAWNPO7216
1 - 5 3/8 (441) 1 - 5 5/8 (447) 1 - 5 1/8 (434) 0 - 11 21/64 (288)	 UAWN3618 UAWNPO3618	 UAWN4018 UAWNPO4018	 UAWN4818 UAWNPO4818	 UAWN5618 UAWNPO5618	 UAWN6018 UAWNPO6018	 UAWN6418 UAWNPO6418	 UAWN7218 UAWNPO7218
1 - 7 3/8 (492) 1 - 7 5/8 (498) 1 - 7 1/8 (485) 1 - 1 21/64 (339)	 UAWN3620 UAWNPO3620	 UAWN4020 UAWNPO4020	 UAWN4820 UAWNPO4820	 UAWN5620 UAWNPO5620	 UAWN6020 UAWNPO6020	 UAWN6420 UAWNPO6420	 UAWN7220 UAWNPO7220
1 - 11 3/8 (593) 1 - 11 5/8 (600) 1 - 11 1/8 (587) 1 - 5 21/64 (440)	 UAWN3624 UAWNPO3624	 UAWN4024 UAWNPO4024	 UAWN4824 UAWNPO4824	 UAWN5624 UAWNPO5624	 UAWN6024 UAWNPO6024	 UAWN6424 UAWNPO6424	 UAWN7224 UAWNPO7224
2 - 3 3/8 (695) 2 - 3 5/8 (701) 2 - 3 1/8 (688) 1 - 9 21/64 (542)	 UAWN3628 UAWNPO3628	 UAWN4028 UAWNPO4028	 UAWN4828 UAWNPO4828	 UAWN5628 UAWNPO5628	 UAWN6028 UAWNPO6028	 UAWN6428 UAWNPO6428	 UAWN7228 UAWNPO7228
2 - 7 3/8 (796) 2 - 7 5/8 (803) 2 - 7 1/8 (790) 2 - 1 21/64 (643)	 UAWN3632 UAWNPO3632	 UAWN4032 UAWNPO4032	 UAWN4832 UAWNPO4832	 UAWN5632 UAWNPO5632	 UAWN6032 UAWNPO6032	 UAWN6432 UAWNPO6432	 UAWN7232 UAWNPO7232
2 - 11 3/8 (898) 2 - 11 5/8 (904) 2 - 11 1/8 (892) 2 - 5 21/64 (745)	 UAWN3636 UAWNPO3636	 UAWN4036 UAWNPO4036	 UAWN4836 UAWNPO4836	 UAWN5636 UAWNPO5636	 UAWN6036 UAWNPO6036	 UAWN6436 UAWNPO6436	 UAWN7236 UAWNPO7236
3 - 3 3/8 (1000) 3 - 3 5/8 (1006) 3 - 3 1/8 (993) 2 - 9 21/64 (847)	 UAWN3640 UAWNPO3640	 UAWN4040 UAWNPO4040	 UAWN4840 UAWNPO4840	 UAWN5640 UAWNPO5640	 UAWN6040 UAWNPO6040	 UAWN6440 UAWNPO6440	 UAWN7240 UAWNPO7240
3 - 7 3/8 (1101) 3 - 7 5/8 (1108) 3 - 7 1/8 (1095) 3 - 1 21/64 (948)	 UAWN3644 UAWNPO3644	 UAWN4044 UAWNPO4044	 UAWN4844 UAWNPO4844	 UAWN5644 UAWNPO5644	 UAWN6044 UAWNPO6044	 UAWN6444 UAWNPO6444	 UAWN7244 UAWNPO7244
3 - 11 3/8 (1203) 3 - 11 5/8 (1209) 3 - 11 1/8 (1196) 3 - 5 21/64 (1050)	 UAWN3648 UAWNPO3648	 UAWN4048 UAWNPO4048	 UAWN4848 UAWNPO4848	 UAWN5648 UAWNPO5648	 UAWN6048 UAWNPO6048	 UAWN6448 UAWNPO6448	 UAWN7248 UAWNPO7248

Please consult your local Marvin representative for more information.

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AWNING / AWNING PUSH OUT

MO (mm)	1 - 4 1/2 (419)	1 - 6 1/2 (469)	1 - 8 1/2 (520)	2 - 1/2 (622)	2 - 2 1/2 (673)	2 - 4 1/2 (723)	2 - 6 1/2 (774)	2 - 8 1/2 (825)
RO (mm)	1 - 5 (431)	1 - 7 (482)	1 - 9 (533)	2 - 1 (635)	2 - 3 (688)	2 - 5 (736)	2 - 7 (787)	2 - 9 (838)
FS (mm)	1 - 4 (406)	1 - 6 (457)	1 - 8 (508)	2 - 0 (609)	2 - 2 (660)	2 - 4 (711)	2 - 6 (762)	2 - 8 (812)
DLO (mm)	0 - 10 13/64 (259)	1 - 0 13/64 (310)	1 - 2 13/64 (361)	1 - 6 13/64 (462)	1 - 8 13/64 (513)	1 - 10 13/64 (564)	2 - 0 13/64 (615)	2 - 2 13/64 (666)

4 - 5 3/8 (1355) 4 - 5 5/8 (1362) 4 - 5 1/8 (1349) 3 - 11 21/64 (1202)								
4 - 7 3/8 (1406) 4 - 7 5/8 (1412) 4 - 7 1/8 (1400) 4 - 1 21/64 (1253)								
4 - 11 3/8 (1508) 4 - 11 5/8 (1514) 4 - 11 1/8 (1501) 4 - 5 21/64 (1355)								
5 - 3 3/8 (1609) 5 - 3 5/8 (1616) 5 - 3 1/8 (1603) 4 - 9 21/64 (1456)								
5 - 11 3/8 (1812) 5 - 11 5/8 (1819) 5 - 11 1/8 (1806) 5 - 5 21/64 (1659)								

Details and Elevations not to scale.

T For safety and/or code requirements, Marvin recommends tempered glass in all units with a frame size height of 71 1/8" or larger and units with a frame size of 25.2 ft² and larger.

Please consult your local Marvin representative for more information.

For further details and drawings visit the 'Tools and Documents' section at Marvin.com.

CASEMENT / CASEMENT PUSH OUT

MO (mm)	1 - 4 1/2 (419)	1 - 6 1/2 (469)	1 - 8 1/2 (520)	2 - 1/2 (622)	2 - 2 1/2 (673)	2 - 4 1/2 (723)	2 - 6 1/2 (774)	2 - 8 1/2 (825)	3 - 1/2 (927)	3 - 4 1/2 (1028)
RO (mm)	1 - 5 (431)	1 - 7 (482)	1 - 9 (533)	2 - 1 (635)	2 - 3 (685)	2 - 5 (736)	2 - 7 (787)	2 - 9 (838)	3 - 1 (939)	3 - 5 (1041)
FS (mm)	1 - 4 (406)	1 - 6 (457)	1 - 8 (508)	2 - 0 (609)	2 - 2 (660)	2 - 4 (711)	2 - 6 (762)	2 - 8 (812)	3 - 0 (914)	3 - 4 (1016)
DLO (mm)	0 - 10 13/64 (259)	1 - 0 13/64 (310)	1 - 2 13/64 (361)	1 - 6 13/64 (462)	1 - 8 13/64 (513)	1 - 10 13/64 (564)	2 - 0 13/64 (615)	2 - 2 13/64 (666)	2 - 6 13/64 (767)	2 - 10 13/64 (869)

1 - 1 3/8 (399)										
1 - 1 5/8 (346)										
1 - 1 1/8 (333)										
0 - 7 21/64 (186)										
1 - 3 3/8 (690)										
1 - 3 5/8 (996)										
1 - 3 1/8 (884)										
0 - 9 21/64 (237)										
1 - 5 3/8 (441)										
1 - 5 5/8 (447)										
1 - 5 1/8 (434)										
0 - 11 21/64 (288)										
1 - 7 3/8 (492)										
1 - 7 5/8 (498)										
1 - 7 1/8 (485)										
1 - 1 21/64 (339)										
1 - 11 3/8 (693)										
1 - 11 5/8 (600)										
1 - 11 1/8 (587)										
1 - 5 21/64 (440)										
2 - 3 3/8 (695)										
2 - 3 5/8 (701)										
2 - 3 1/8 (688)										
1 - 9 21/64 (542)										
2 - 7 3/8 (796)										
2 - 7 5/8 (803)										
2 - 7 1/8 (790)										
2 - 1 21/64 (643)										
2 - 11 3/8 (898)										
2 - 11 5/8 (904)										
2 - 11 1/8 (892)										
2 - 9 21/64 (745)										
3 - 3 3/8 (1000)										
3 - 3 5/8 (1006)										
3 - 3 1/8 (993)										
2 - 9 21/64 (847)										

Details and Elevations not to scale.

- Marvin exclusive wash mode is not available on Ultimate Awnings, Ultimate Casement Round Tops or Ultimate Casement Windows less than 20" in width.
- Ultimate Casement Push Out not available in frame size heights less than 15 1/8"
- For units with a tall bottom rail, reduce the DLO height by 1 1/2".

E These windows meet national Egress codes for fire evacuation.

Local codes may differ.

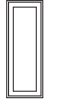
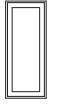
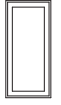
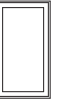




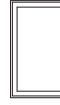
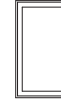
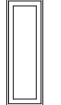
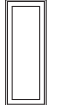
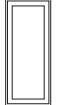
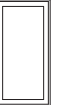



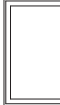
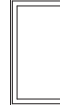
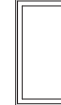
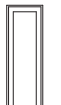
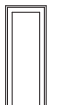
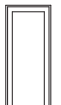





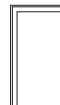
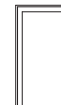
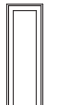
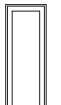
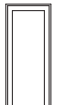
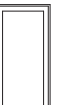




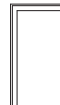
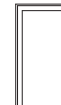
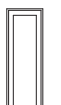
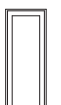
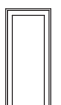
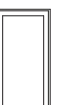




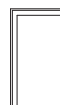
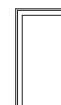
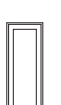
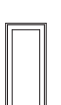
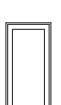







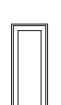
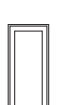








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Ultimate Casement: UCA
 Ultimate Casement Push Out: UCAPO

CASEMENT / CASEMENT PUSH OUT

MO (mm)	1 - 4 1/2 (419)	1 - 6 1/2 (469)	1 - 8 1/2 (520)	2 - 1/2 (622)	2 - 2 1/2 (673)	2 - 4 1/2 (723)	2 - 6 1/2 (774)	2 - 8 1/2 (825)	3 - 1/2 (927)	3 - 4 1/2 (1028)
RO (mm)	1 - 5 (431)	1 - 7 (482)	1 - 9 (533)	2 - 1 (635)	2 - 3 (685)	2 - 5 (736)	2 - 7 (787)	2 - 9 (838)	3 - 1 (939)	3 - 5 (1041)
FS (mm)	1 - 4 (406)	1 - 6 (457)	1 - 8 (508)	2 - 0 (609)	2 - 2 (660)	2 - 4 (711)	2 - 6 (762)	2 - 8 (812)	3 - 0 (914)	3 - 4 (1016)
DLO (mm)	0 - 10 13/64 (259)	1 - 0 13/64 (310)	1 - 2 13/64 (361)	1 - 6 13/64 (462)	1 - 8 13/64 (513)	1 - 10 13/64 (564)	2 - 0 13/64 (615)	2 - 2 13/64 (666)	2 - 6 13/64 (767)	2 - 10 13/64 (869)
3 - 7 3/8 (1101) 3 - 7 5/8 (1108) 3 - 7 1/8 (1095) 3 - 1 21/64 (948)	 UCA1644 UCAPO1644	 UCA1844 UCAPO1844	 UCA2044 UCAPO2044	 UCA2444 UCAPO2444	 UCA2644 UCAPO2644	 UCA2844 UCAPO2844 E	 UCA3044 E UCAPO3044 E	 UCA3244 E UCAPO3244 E	 UCA3644 E UCAPO3644 E	 UCA4044 E UCAPO4044 E
3 - 11 3/8 (1203) 3 - 11 5/8 (1209) 3 - 11 1/8 (1196) 3 - 5 21/64 (1050)	 UCA1648 UCAPO1648	 UCA1848 UCAPO1848	 UCA2048 UCAPO2048	 UCA2448 UCAPO2448	 UCA2648 UCAPO2648	 UCA2848 E UCAPO2848 E	 UCA3048 E UCAPO3048 E	 UCA3248 E UCAPO3248 E	 UCA3648 E UCAPO3648 E	 UCA4048 E UCAPO4048 E
4 - 5 3/8 (1355) 4 - 5 5/8 (1362) 4 - 5 1/8 (1349) 3 - 11 21/64 (1202)	 UCA1654 UCAPO1654	 UCA1854 UCAPO1854	 UCA2054 UCAPO2054	 UCA2454 UCAPO2454	 UCA2654 UCAPO2654	 UCA2854 E UCAPO2854 E	 UCA3054 E UCAPO3054 E	 UCA3254 E UCAPO3254 E	 UCA3654 E UCAPO3654 E	 UCA4054 E UCAPO4054 E
4 - 7 3/8 (1406) 4 - 7 5/8 (1412) 4 - 7 1/8 (1400) 4 - 1 21/64 (1253)	 UCA1656 UCAPO1656	 UCA1856 UCAPO1856	 UCA2056 UCAPO2056	 UCA2456 UCAPO2456	 UCA2656 UCAPO2656	 UCA2856 E UCAPO2856 E	 UCA3056 E UCAPO3056 E	 UCA3256 E UCAPO3256 E	 UCA3656 E UCAPO3656 E	 UCA4056 E UCAPO4056 E
4 - 11 3/8 (1508) 4 - 11 5/8 (1514) 4 - 11 1/8 (1501) 4 - 5 21/64 (1385)	 UCA1660 UCAPO1660	 UCA1860 UCAPO1860	 UCA2060 UCAPO2060	 UCA2460 UCAPO2460	 UCA2660 UCAPO2660	 UCA2860 E UCAPO2860 E	 UCA3060 E UCAPO3060 E	 UCA3260 E UCAPO3260 E	 UCA3660 E UCAPO3660 E	 UCA4060 E UCAPO4060 E
5 - 3 3/8 (1609) 5 - 3 5/8 (1616) 5 - 3 1/8 (1603) 4 - 9 21/64 (1456)	 UCA1664 UCAPO1664	 UCA1864 UCAPO1864	 UCA2064 UCAPO2064	 UCA2464 UCAPO2464	 UCA2664 UCAPO2664	 UCA2864 E UCAPO2864 E	 UCA3064 E UCAPO3064 E	 UCA3264 E UCAPO3264 E	 UCA3664 E UCAPO3664 E	 UCA4064 E UCAPO4064 E
5 - 11 3/8 (1812) 5 - 11 5/8 (1819) 5 - 11 1/8 (1806) 5 - 5 21/64 (1659)	 UCA1672 T UCAPO1672 T	 UCA1872 T UCAPO1872 T	 UCA2072 T UCAPO2072 T	 UCA2472 T UCAPO2472 T	 UCA2672 T UCAPO2672 T	 UCA2872 ET UCAPO2872 ET	 UCA3072 ET UCAPO3072 ET	 UCA3272 ET UCAPO3272 ET	 UCA3672 ET UCAPO3672 ET	 UCA4072 ET UCAPO4072 ET

CASEMENT / CASEMENT PUSH OUT

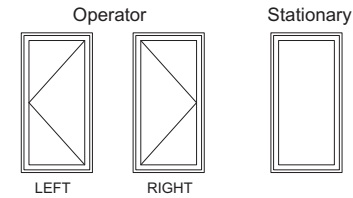
MO (mm)	1 - 4 1/2 (419)	1 - 6 1/2 (469)	1 - 8 1/2 (520)	2 - 1/2 (622)	2 - 2 1/2 (673)	2 - 4 1/2 (723)	2 - 6 1/2 (774)	2 - 8 1/2 (825)	3 - 1/2 (927)	3 - 4 1/2 (1028)
RO (mm)	1 - 5 (431)	1 - 7 (482)	1 - 9 (533)	2 - 1 (635)	2 - 3 (685)	2 - 5 (736)	2 - 7 (787)	2 - 9 (838)	3 - 1 (939)	3 - 5 (1041)
FS (mm)	1 - 4 (406)	1 - 6 (457)	1 - 8 (508)	2 - 0 (609)	2 - 2 (660)	2 - 4 (711)	2 - 6 (762)	2 - 8 (812)	3 - 0 (914)	3 - 4 (1016)
DLO (mm)	0 - 10 13/64 (259)	1 - 0 13/64 (310)	1 - 2 13/64 (361)	1 - 6 13/64 (462)	1 - 8 13/64 (513)	1 - 10 13/64 (564)	2 - 0 13/64 (615)	2 - 2 13/64 (666)	2 - 6 13/64 (767)	2 - 10 13/64 (869)

6 - 5 3/8 (1865) 6 - 5 5/8 (1971) 6 - 5 1/8 (1958) 5 - 11 21/64 (1812)										
	UCA1678 T	UCA1878 T	UCA2078 T	UCA2478 T	UCA2678 T	UCA2878 ET	UCA3078 ET	UCA3278 ET	UCA3678 ET	UCA4078 ET
	UCAPO1678 T	UCAPO1878 T	UCAPO2078 T	UCAPO2478 T	UCAPO2678 T	UCAPO2878 ET	UCAPO3078 ET	UCAPO3278 ET	UCAPO3678 ET	UCAPO4078 ET
6 - 11 3/8 (2117) 6 - 11 5/8 (2124) 6 - 11 1/8 (2111) 6 - 5 21/64 (1964)										
	UCA1684 T	UCA1884 T	UCA2084 T	UCA2484	UCA2684 T	UCA2884 ET	UCA3084 ET	UCA3284 ET	UCA3684 ET	UCA4084 ET
	UCAPO1684 T	UCAPO1884 T	UCAPO2084 T	UCAPO2484	UCAPO2684 T	UCAPO2884 ET	UCAPO3084 ET	UCAPO3284 ET	UCAPO3684 ET	UCAPO4084 ET
7 - 7 3/8 (2320) 7 - 7 5/8 (2327) 7 - 7 1/8 (2314) 7 - 1 21/64 (2167)										
	UCA1692 T	UCA1892 T	UCA2092 T	UCA2492 T	UCA2692 T	UCA2892 ET	UCA3092 ET	UCA3292 ET	UCA3692 ET	UCA4092 ET
	UCAPO1692 T	UCAPO1892 T	UCAPO2092 T	UCAPO2492 T	UCAPO2692 T	UCAPO2892 ET	UCAPO3092 ET	UCAPO3292 ET	UCAPO3692 ET	UCAPO4092 ET
7 - 11 3/8 (2422) 7 - 11 5/8 (2428) 7 - 11 1/8 (2416) 7 - 5 21/64 (2269)										
	UCA1696 T	UCA1896 T	UCA2096 T	UCA2496 T	UCA2696 T	UCA2896 ET	UCA3096 ET	UCA3296 ET	UCA3696 ET	UCA3696 ET
	UCAPO1696 T	UCAPO1896 T	UCAPO2096 T	UCAPO2496 T	UCAPO2696 T	UCAPO2896 ET	UCAPO3096 ET	UCAPO3296 ET	UCAPO3696 ET	UCAPO3696 ET

Construction Details

Casements available as an operator or stationary.

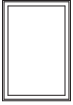











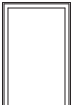




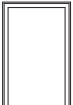





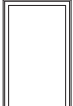






L or R handing determined from exterior.



CASEMENT STANDARD OPERATION AS VIEWED FROM THE OUTSIDE



AWNING / AWNING PUSH OUT

MO (mm)	3 - 1/2 (927)	3 - 4 1/2 (1028)	4 - 1/2 (1232)	4 - 8 1/2 (1435)	5 - 1/2 (1537)	5 - 4 1/2 (1638)	6 - 1/2 (1842)
RO (mm)	3 - 1 (939)	3 - 5 (1041)	4 - 1 (1245)	4 - 9 (1448)	5 - 1 (1549)	5 - 5 (1651)	6 - 1 (1854)
FS (mm)	3 - 0 (914)	3 - 4 (1016)	4 - 0 (1219)	4 - 8 (1422)	5 - 0 (1524)	5 - 4 (1626)	6 - 0 (1829)
DLO (mm)	2 - 6 13/64 (767)	2 - 10 13/64 (869)	3 - 6 13/64 (1072)	4 - 2 13/64 (1275)	4 - 6 13/64 (1377)	4 - 10 13/64 (1478)	5 - 6 13/64 (1682)
4 - 5 3/8 (1355)							
UAWN3654	UAWN4054	UAWN4854	UAWN5654	UAWN6054	UAWN6454	UAWN7254 T	
4 - 7 3/8 (1406)							
UAWN3656	UAWN4056	UAWN4856	UAWN5656	UAWN6056	UAWN6456	UAWN7256 T	
4 - 7 5/8 (1412)							
UAWN3660	UAWN4060	UAWN4860	UAWN5660	UAWN6060	UAWN6460 T	UAWN7260 T	
4 - 7 1/8 (1400)							
UAWN3664	UAWN4064	UAWN4864	UAWN5664	UAWN6064 T	UAWN6464 T	UAWN7264 T	
4 - 7 1/8 (1400)							
UAWN3672 T	UAWN4072 T	UAWN4872 T	UAWN5672 T	UAWN6072 T	UAWN6472 T	UAWN7272 T	
4 - 5 21/64 (1202)							
4 - 5 21/64 (1253)							
4 - 11 3/8 (1508)							
4 - 11 5/8 (1514)							
4 - 11 1/8 (1501)							
4 - 5 21/64 (1355)							
5 - 3 3/8 (1609)							
5 - 3 5/8 (1616)							
5 - 3 1/8 (1603)							
4 - 9 21/64 (1456)							
5 - 11 3/8 (1812)							
5 - 11 5/8 (1819)							
5 - 11 1/8 (1806)							
5 - 5 21/64 (1659)							