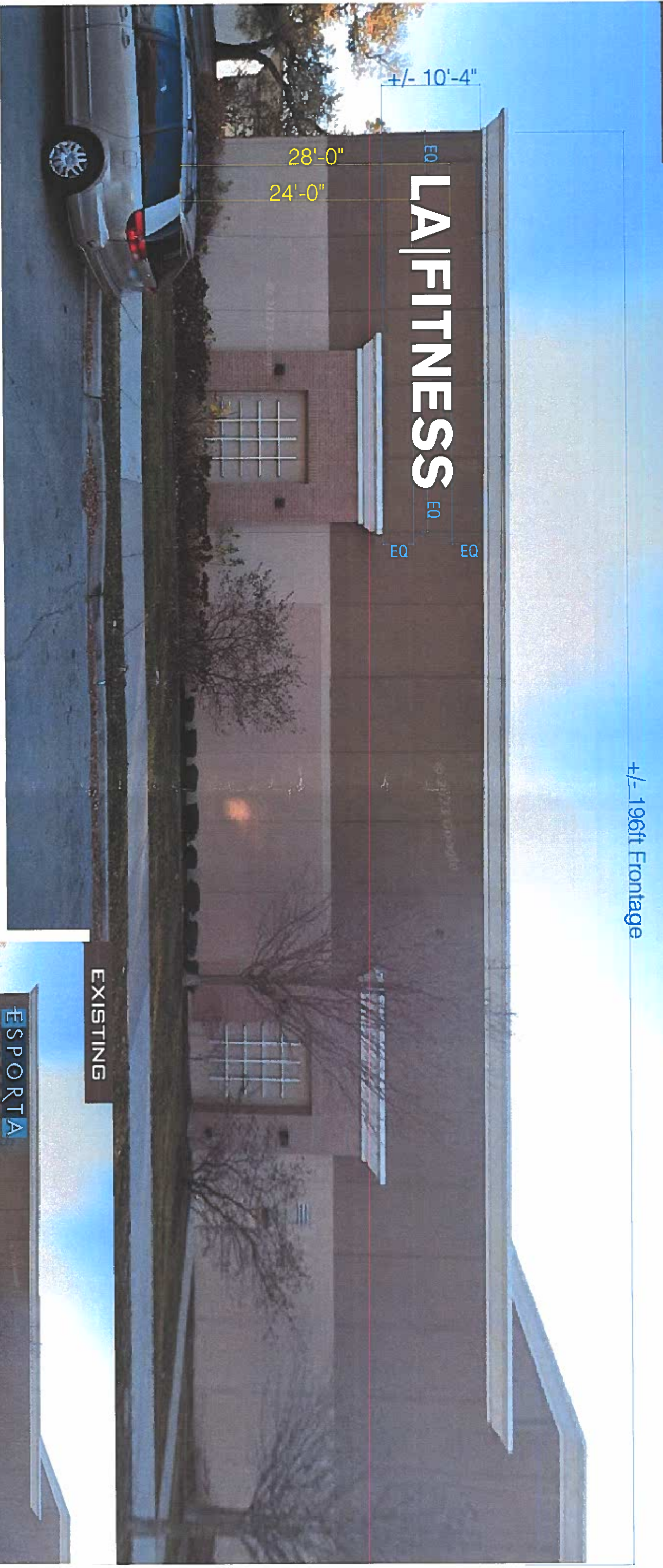


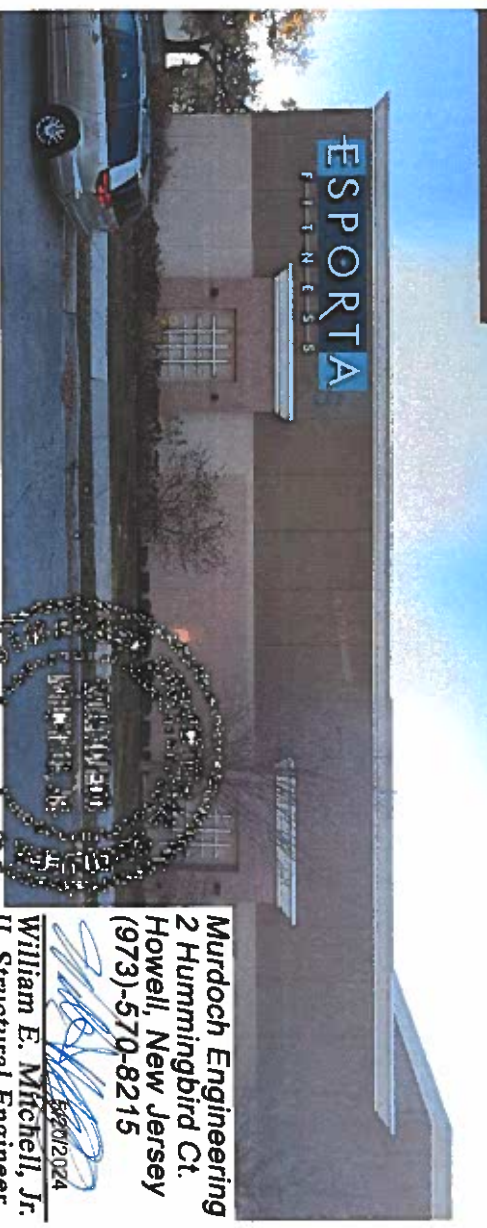
PROPOSED

+/- 196ft Frontage



EXISTING

DESIGN SPECIFICATIONS	
IBC 2018 with IL amendments	2019 Chicago Building Code
ASCE 7-16 Minimum Design Loads for Buildings & Other Structures	ACI 318-14 Building Code Requirements for Structural Concrete
ANSI/AISC 360-16 Specification for Structural Steel Buildings	
DESIGN LOADS	
Wind Exposure	V = 115 mph
Risk Cat.	C
Grnd. Snow	Pg = 25 psf



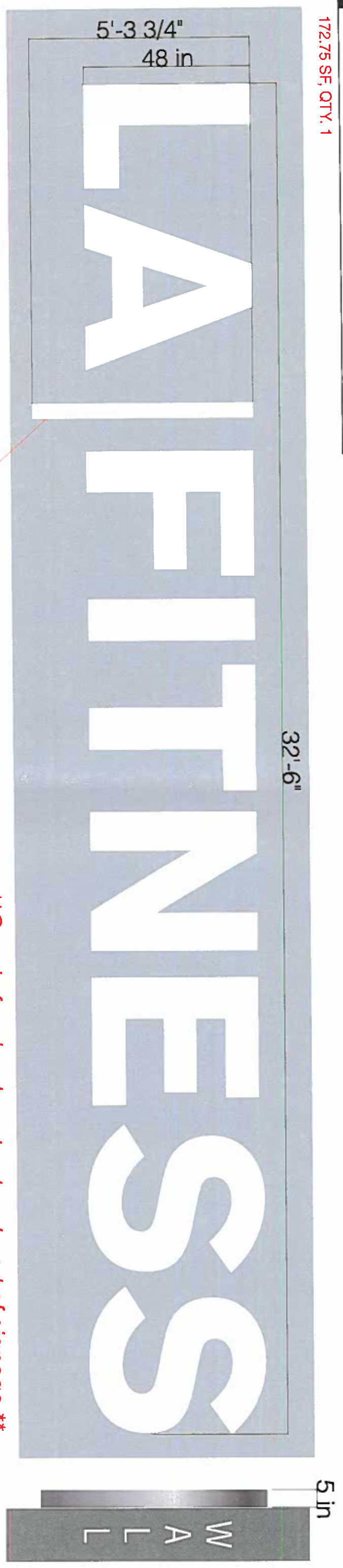
Murdoch Engineering
 2 Hummingbird Ct.
 Howell, New Jersey
 (973)-570-8215

William E. Mitchell, Jr.
 IL Structural Engineer
 License #081006535



Location Address: 2620 W. Pershing Rd. Chicago, IL 60632

172.75 SF, QTY. 1

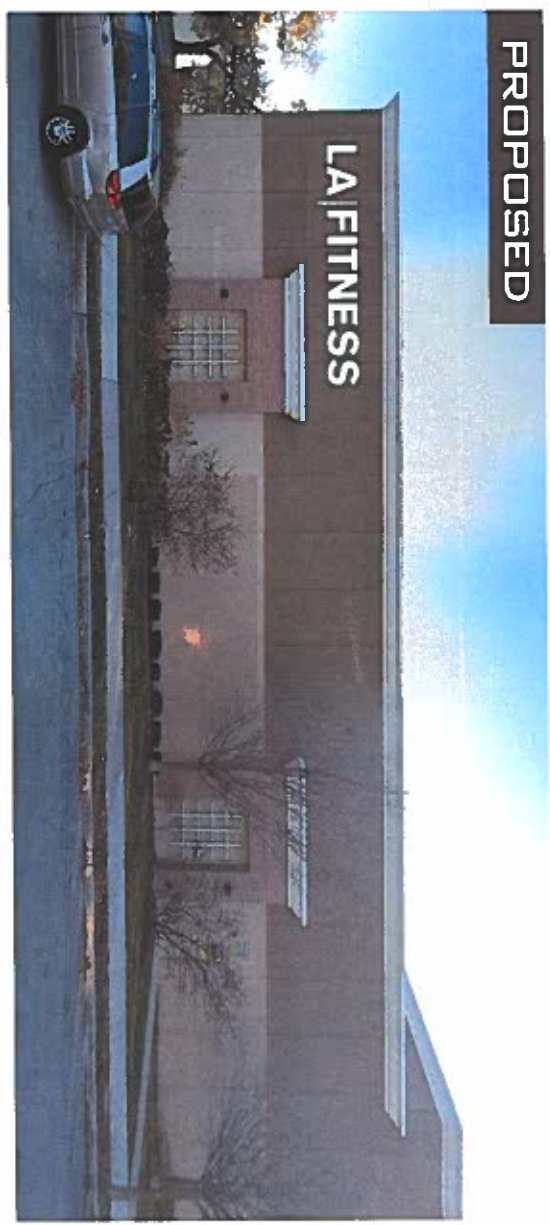
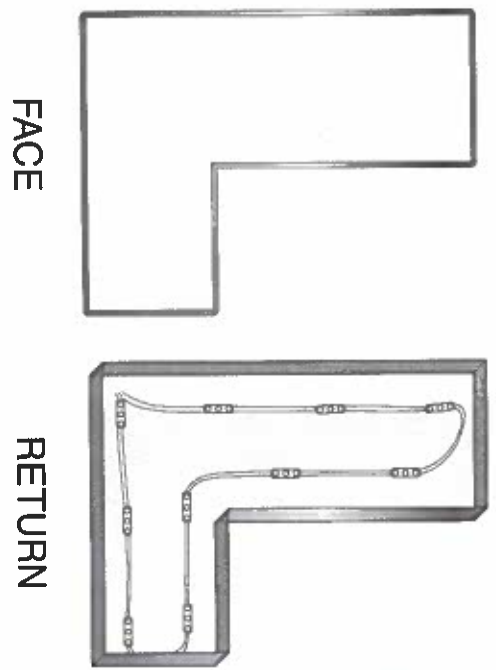


ILLUMINATED BAR

Gray is for visual contrast, not part of signage.
SIDE

- FACES:** White #7328
- MOLDING:** Silver
- RETURNS:** Brushed Silver
- BACKS:** White
- ILLUMINATION:** White

- 3/16" Acrylic
- 1" Formed Metal Retainer (NOT Jewelite)
- .063 Aluminum
- .125 Pre-Finished ACM
- Agilight Signrayz Series Apex



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 ANS/AISC 360-16 Specification for Structural Steel Buildings

DESIGN LOADS:

Wind	V = 115 mph
Exposure	C
Risk Cat.	II
Grnd. Snow	Pg = 25 psf

Professional Engineer Seal: WILLIAM E. MITCHELL, JR., License #081006535, State of Illinois, 5/20/2024

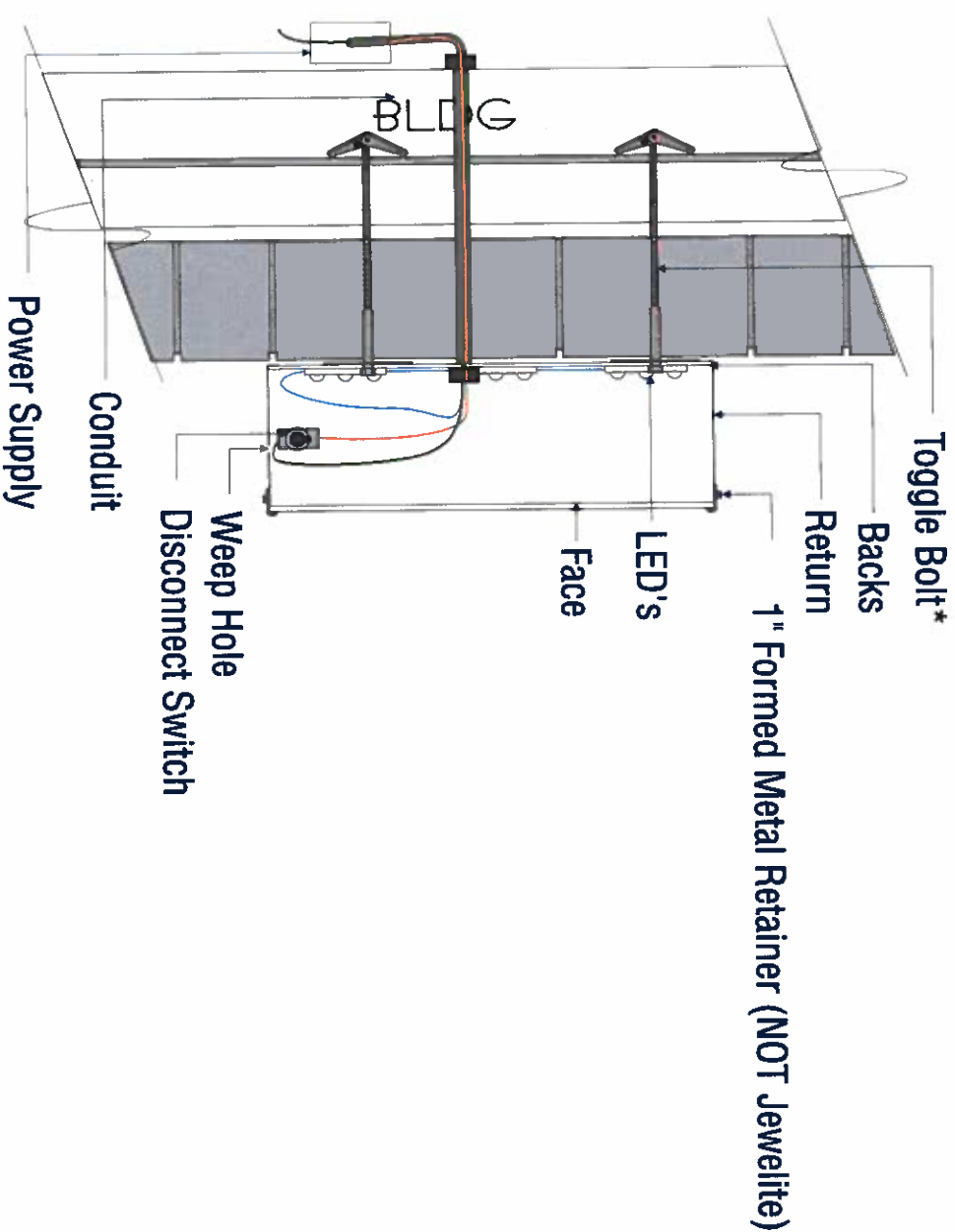
Murdoch Engineering
 2 Hummingbird Ct.
 Howell, New Jersey
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Typical Construction - Front-Lit Channels Flush Mount

NOT TO SCALE

A Front Elevation

MOUNT TO BRICK

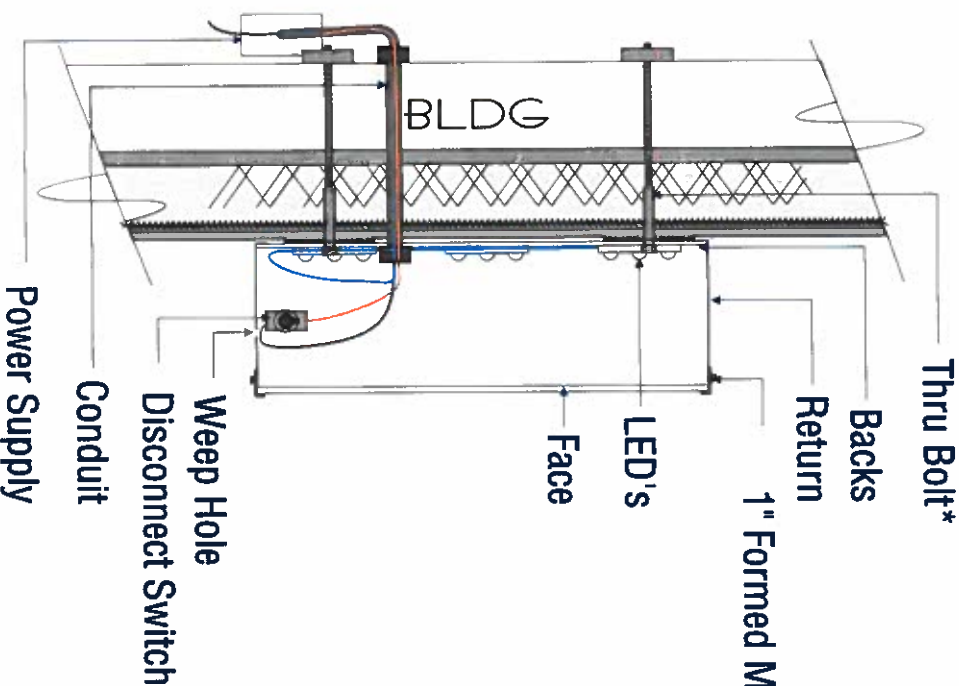


Electric from LED's to Power Supply (60w Typical)
 Connection from Power Supply to Disconnect Switch (Ext. Access Typical)
 Electric to main power (20 AMP Circuit Typical)

Location Address: 2620 W. Pershing Rd. Chicago, IL 60632

B Rear Elevation

MOUNT TO EIFS



*Connecting hardware to wall structure, depth must be field verified.
 Waterproof silicone thru penetrations.

CHANNEL LETTER NOTES

Seams in returns to overlap to divert water entry
 Weep holes required in all letters (n/a for interior installation)
 All conduit (electrical out) to exit back of letters at a uniform distance above the bottom of each letter
 All exposed GTO wire to be enclosed in 1/2" conduit
 ALL COMPONENTS ARE UL LISTED

FASTENER SCHEDULE (DM Letters)	WALL CONSTRUCTION			
	MASONRY (CHU-Block)	EIFS/RYVIT OVER 1/2" PLYWOOD	EIFS/RYVIT OVER GYPSUM DENSGLASS (MIN. 3/4" PLYWOOD)	METAL PANEL OVER METAL STUD
HARDWARE				
THRU-BOLT	3/8"	YES	YES	YES
DR. WALL DBL. EXPANSION or SCREW-BOLT, ANCHOR	3/8"	YES?	NO	NO
LAG BOLT	3/8"	NO	1" SOLID WOOD PENETRATION REQ'D	NO
SNAP TOGGLE BOLT TYPE BC	3/8"	5	FACE	YES
Tab-Screw	1/4"	5	NO	NO

1) Fasteners shall be evenly spaced. Thru-Align Backs with washer into .05" Back w/ender washer into .05" letter Back or less.
 2) Expansion anchors require a minimum 5" solid masonry embedment installed perface-guide for wall construction type.
 3) Engineering liability is limited to building connections.
 4) Tek-Screw into Alum. Require SS Screw - Full Thread Embedment Required.
 5) Thru-Bolts (All-Threaded Rods) into L2X2X1/8" Sil. Angle, P1000 Uni-Strut or 2x6 lumber spanning two(2) wall studs per Bolt-Rod

Engineers Connection Note:
 Provide Fasteners through letter backs with washer top and bottom, using the fastener schedule for existing wall construction type to determine the fastener type and quantity per/letter to install.

DESIGN SPECIFICATIONS

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 2019 Chicago Building Code
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 5/20/2024

DESIGN LOADS

Wind V = 115 mph
 Exposure C
 Risk Cat. II
 Grnd. Snow Pg = 25 psf

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 IL Structural Engineer
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GENERAL NOTES

murdochengineering.com
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2399 N -34 A-2
anasquan, N 08736

PREPARED FOR:



Office: 631-446-1121

PROJECT TITLE:

LA FITNESS

PROJECT ADDRESS:

2620 W. Pershing Rd.
Chicago, IL 60632

DESIGN SPECIFICATIONS

IBC 2018	with	1L	amendments
ASCE 7-16			Minimum Design Loads for Buildings & Other Structures
ACI 318-14			Building Code Requirements for Structural Concrete
ANSI/AISC 360-16			Specification for Structural Steel Buildings

DESIGN LOADS

Wind	V =	115	mph
Exposure		C	
Risk Cat.		II	
Grnd. Snow	Pg =	25	psf



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5/20/2024
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IL Structural Engineer
License #081005535

STEEL

1. STEEL SHAPES SHALL CONFORM TO THE FOLLOWING:

ROUND HSS	ASTM A500, GR B	Fy=42 KSI MIN.
SQUARE/RECT HSS	ASTM A500, GR B	Fy=46 KSI MIN.
THREADED ROD	F1554 GR 55	Fy=55 KSI MIN.
STEEL PLATE STD.	ASTM A36 ASTM	Fy=36 KSI MIN.
PIPE	A53, GR B	Fy=35 KSI MIN.

- BOLTS SHALL CONFORM TO ASTM A325 UNO.
- BOLTS AND THREADED ROD SHALL BE HOT-DIP GALVANIZED PER ASTM F2329 UNO.
- ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 UNO.
- NUTS SHALL CONFORM TO ASTM A563.
- WASHERS SHALL CONFORM TO ASTM F844.
- STEEL HARDWARE SHALL BE HOT-DIP GALVANIZED PER ASTM A153 UNO WELDING:
 - WELD STRUCTURAL STEEL IN COMPLIANCE WITH AWS/AWS D1.1 AND AISC SPECIFICATION, CHAPTER 1. WELDERS SHALL BE CERTIFIED AS REQUIRED BY GOVERNING CODE AUTHORITY. WELDING SHALL BE DONE BY ELECTRIC ARC PROCESS USING LOW-HYDROGEN ELECTRODES WITH SPECIFIED TENSILE STRENGTH NOT LESS THAN 70 KSI UNLESS NOTED OTHERWISE.
 - ALL SHOP AND FIELD WELDS SHALL BE PERFORMED BY AN AWS OR ICC CERTIFIED WELDER WITH ACTIVE STATUS AT TIME OF WELDING
 - UNLESS A LARGER WELD SIZE IS INDICATED, PROVIDE MINIMUM WELD SIZE PER AISC SPECIFICATION, SECTION J2, TABLE J2.4
 - BASE PLATES SHALL BE WELDED ON TOP AND BOTTOM WITH CONTINUOUS WELDS OF AT LEAST 1/4" (IF PLATE IS CUT TO FIT TUBE INTO PLATE)

ALUMINUM:

- FABRICATE AND ERECT ALUMINUM IN COMPLIANCE WITH THE ALUMINUM ASSOCIATION (AA) 2010 ALUMINUM DESIGN MANUAL (ADM) 1, THE SPECIFICATIONS FOR ALUMINUM SHEET METAL WORK (ASMS), AND IBC CHAPTER 20.
- PIPE AND TUBE SHALL BE 6061-T6 PER ASTM B241 OR B429 WITH Fu=38 KSI MIN, Fy=35 KSI MIN, Ftuw=24 KSI MIN, Fyw=15 KSI MIN.
- STD STRUCTURAL PROFILES SHALL BE 6061-T6 PER B308 WITH Fu=38 KSI MIN, Fy=35 KSI MIN, Ftuw=24 KSI MIN, Fyw=15 KSI MIN.
- SHEET AND PLATE SHALL BE 6061-T6 PER ASTM B209 WITH Fu=42 KSI MIN, Fy=35 KSI MIN, Ftuw=24 KSI MIN, Fyw=15 KSI MIN.
- EXTRUSIONS SHALL BE 6061-T6 PER ASTM B241 OR B429 WITH Fu=38 KSI MIN, Fy=35 KSI MIN, Ftuw=24 KSI MIN, Fyw=15 KSI MIN.
- ALL SHOP AND FIELD WELDS SHALL BE PERFORMED BY AN AWS OR ICC CERTIFIED WELDER WITH CURRENT STATUS AT TIME OF WELDING
- UNLESS A LARGER WELD SIZE IS INDICATED, PROVIDE MINIMUM WELD PER ADM. ALL ALUMINUM WELDED JOINTS SHALL HAVE WELD SIZES OF AT LEAST 1/4 INCH
- FILLET WELDS SHALL NOT EXCEED THINNEST MEMBER WALL THICKNESS JOINED.
- ALUMINUM WELD FILLER SHALL BE 5356 ALLOY
- WELDING PROCESS GMAW OR GTAW SHALL BE IN ACCORDANCE WITH AWS D1.2
- ALUMINUM CHANNEL LETTERS SHALL BE CONSTRUCTED OF 0.090" RETURNS AND 0.125" BACKS MINIMUM, UNLESS A LARGER SIZE IS INDICATED ON DRAWINGS. THIS NOTE SHALL SUPERCEDE DRAWING DETAILS.
- PROVIDE NEOPRENE GASKET BETWEEN DISSIMILAR METALS TO PREVENT GALVANIC CORROSION
- ALUMINUM DIRECTLY EMBEDDED INTO CONCRETE SHALL BE CAPPED AT BOTTOM AND COATED WITH BITUMINOUS COATING OR POLYURETHANE WHERE IN CONTACT WITH CONCRETE.
- FASTENERS BETWEEN DISSIMILAR METALS SHALL BE STAINLESS STEEL 316.

SCOPE OF WORK:

1. LIMITS OF LIABILITY TO EXTEND ONLY TO THE QUANTITY INDICATED. ATTEMPTS IN PART OR IN WHOLE TO INSTALL GREATER QUANTITIES THAN THOSE SPECIFIED WITHOUT CONSULTING MURDOCH ENGINEERING SHALL VOID ALL PROFESSIONAL LIABILITY AND COVERAGE. ENGINEERING LIABILITY IS LIMITED TO BUILDING CONNECTIONS.

GENERAL:

- ALL MATERIALS AND WORK SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE LOCAL BUILDING CODE.
- CONSTRUCTION METHODS AND PROJECT SAFETY: DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE METHODS, PROCEDURES, OR SEQUENCE OF CONSTRUCTION. TAKE NECESSARY PRECAUTIONS TO MAINTAIN AND ENSURE THE INTEGRITY OF THE STRUCTURE DURING CONSTRUCTION. THE EOR WILL NOT ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT, AND MAINTAIN ALL SAFETY DEVICES AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS, AND REGULATIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS AND SITE CONDITIONS PRIOR TO THE START OF CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES OR INCONSISTENCIES THAT ARE FOUND. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS.
- ALL OMISSIONS AND/OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND FIELD INSPECTOR. THE ENGINEER SHALL PROVIDE A SOLUTION PRIOR TO PROCEEDING WITH ANY WORK AFFECTED BY THE CONFLICT OR OMISSION.
- WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, CONSTRUCT IN ACCORDANCE WITH THE STEEL CONSTRUCTION MANUAL, 14TH EDITION OR 2010 ALUMINUM DESIGN MANUAL.
- WHEN A DETAIL IS IDENTIFIED AS TYPICAL, THE CONTRACTOR IS TO APPLY THIS DETAIL IN ESTIMATING AND CONSTRUCTION TO EVERY LIKE CONDITION WHETHER OR NOT THE REFERENCE IS REPEATED IN EVERY INSTANCE.
- ANY CHANGE TO THE DESIGN AS SHOWN ON THE DRAWINGS REQUIRES PRIOR WRITTEN APPROVAL FROM DESIGN ENGINEER OF RECORD BEFORE CONSTRUCTION.
- WORK PERFORMED IN CONFLICT WITH THE STRUCTURAL DRAWINGS OR APPLICABLE BUILDING CODE REQUIREMENTS SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.
- VERIFICATION: VERIFY ALL DIMENSIONS, ELEVATIONS, AND SITE CONDITIONS BEFORE STARTING WORK. NOTIFY THE EOR IMMEDIATELY OF ANY DISCREPANCIES.

EXISTING CONDITIONS:

- IF EXISTING CONDITIONS ARE NOT AS DETAILED IN THIS DESIGN, THE INSTALLER SHALL CEASE WORK AND NOTIFY MURDOCH ENGINEERING IMMEDIATELY.
- MURDOCH ENGINEERING WILL NOT BE PERFORMING ON-SITE INSPECTIONS OR VERIFICATIONS. IT IS THE RESPONSIBILITY OF THE INSTALLER, STRUCTURE OWNER, AND PROPERTY OWNER TO IDENTIFY EXISTING CONDITIONS AND CONTACT MURDOCH ENGINEERING WITH ANY DISCREPANCIES OR CONCERNS.
- INSTALLER SHALL CONFIRM THE DIAMETER AND THICKNESS OF EXISTING MEMBERS AND NOTIFY MURDOCH ENGINEERING OF ANY DISCREPANCIES.
- INSTALLER SHALL INSPECT AND CONFIRM THE QUALITY OF EXISTING STRUCTURE AS "IN GOOD REPAIR". IF THERE ARE ANY INDICATIONS THAT THIS IS NOT THE CASE, INSTALLER SHALL CEASE WORK IMMEDIATELY AND NOTIFY MURDOCH ENGINEERING.
- ANY EXISTING INFORMATION SHOWN HAS BEEN FURNISHED BY THE PERSON(S) OR COMPANY THIS DOCUMENT WAS PREPARED FOR (SEE TITLE BLOCK). MURDOCH ENGINEERING IN NO WAY CERTIFIES THIS INFORMATION AS "AS-BUILT". IF THERE IS ANY REASON TO BELIEVE THE EXISTING CONDITIONS DETAILED HEREIN ARE NOT ACCURATE, MURDOCH ENGINEERING SHALL BE NOTIFIED IMMEDIATELY.

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