

1

REVISION 1  
09-29-21

2

REVISION 2  
10-18-21

PROPOSED EXTERIOR CANOPY FOR:

# Cortland's Garage Tavern & Grill

## 1 N Vail Ave. Arlington Heights, IL 60005

DESIGN TEAM

Architect	Canopy Contractor	Business Owner
LaPage Architects, Ltd. Ronald N. LaPage, Architect 951 W. Liberty Drive Wheaton, IL 60187 630.665.0006 R.LaPage@lapagearchitects.com	Thatcher Oaks Awnings 718 N Industrial Dr, Elmhurst, IL 60126 ThatcherOaks.com 630.833.5700 russ@thatcheroaks.com	Cortland's Garage Brian Roginski 1 N Vail Ave. Arlington Heights, IL 60005 773.851.4223 brian@garagetaverngroup.com

LOCATION MAP

Pin: 03-29-341-013



Project Location

RENDERING OF PROPOSED CANOPY



LOCATION OF PROPOSED NORTH  
AWNING / CANOPY

STATEMENT OF COMPLIANCE

LaPage Architects, Ltd.  
Architects ■ Interior Planners

September 29, 2021

Village of Arlington Heights Building and Life Safety Department  
33 S. Arlington Heights Rd.  
Arlington Heights, IL 60005  
Phone (847) 368-5560

RE: New Canopy Structure  
Cortland's Garage – Tavern & Grill  
1 N Vail Ave  
Arlington Heights, IL 60005

To the Village of Arlington Heights Building and Life Safety Department,

At the request of Thatcher Oaks Awnings, Elmhurst, Illinois, I have reviewed the proposed structural installation drawings for a new canopy-awning structure for the property at 1 N Vail Ave Arlington Heights, IL 60005.

Under the International Building Code-2018, the vestibule/ canopy structure meets the following code requirements:

1607 Awnings & Canopies

Uniform load of a minimum of 20 P.S.F. plus wind and snow loads.

1608 Snow Loads

Minimum of 30 P.S.F. snow load.

1609 Wind Load

Minimum wind load of 30 P.S.F. – Specific wind velocity of 107 mph.

1609 Wind Uplift

Lateral bracing, connections and support posts are designed to overcome uplift and turning force

2606 Awnings, Patio Covers & Similar Structures

Fabrication of canopy-awning structure to meet Section 3105 and Chapter 32.

3105 Awnings & Canopies

Fabrication of canopy-awning structure suspension and fabric shall be non-combustible and meet NFPA 701, flame spread index of 0-25.

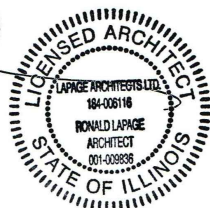
3201 Drainage

Drainage from the canopy-awning shall not flow over walk surfaces.

I hereby certify that the canopy structure for 1 N Vail Ave Arlington Heights, IL 60005 meets the Code requirements as per the International Building Code 2018.

Sincerely,

  
Ronald LaPage AIA, ALA  
IL Licensed Architect  
License #01-9836 Expires 11/30/23



PROJECT DESCRIPTION

PROPOSED CANOPY TO COVER EXISTING PAVER PATIO.  
COVERED CANOPY TO BE USED FOR OUTDOOR SEATING.  
WORK TO INCLUDE ELECTRICAL. NO PLUMBING OR HVAC

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  - A10 HILTI SLEEVE ANCHOR SPECIFICATIONS
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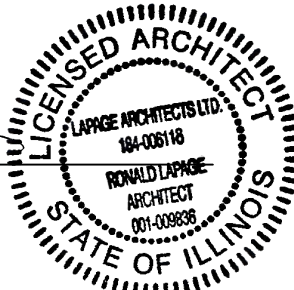
ARCHITECT OF RECORD  
CERTIFICATION

I HEREBY CERTIFY THAT THESE CANOPY DRAWINGS WERE PREPARED UNDER MY DIRECT SUPERVISION AND TO THE BEST OF MY KNOWLEDGE MEETS OR EXCEEDS THE VILLAGE OF ARLINGTON HEIGHTS BUILDING AND LIFE SAFETY DEPARTMENT CODES AND REGULATIONS FOR CANOPIES.



RONALD LAPAGE, AIA, ALA  
ILLINOIS LICENSED ARCHITECT  
ARCHITECT'S LICENSE No. 001-009836  
PROFESSIONAL DESIGN FIRM: 184-006116

DATE: 10-18-21



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Project #	20060
Drawn:	JP
Date:	12-09-2020
Issue and Revision Dates	
Issued for Permit	12-09-2020
REVISION 1	09-29-2021
REVISION 2	10-18-2021

**LaPage Architects, Ltd.**  
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**THATCHER OAKS  
AWNINGS**  
718 N. Industrial Dr. Elmhurst, IL 60126  
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(630) 833-5700

Proposed Canopy / Awning for:  
**Cortland's Garage Tavern & Grill**  
1 N Vail Ave,  
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Drawing  
CERTIFICATION &  
PROJECT  
INFORMATION

Sheet  
**T1**  
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1 N VAIL AVE

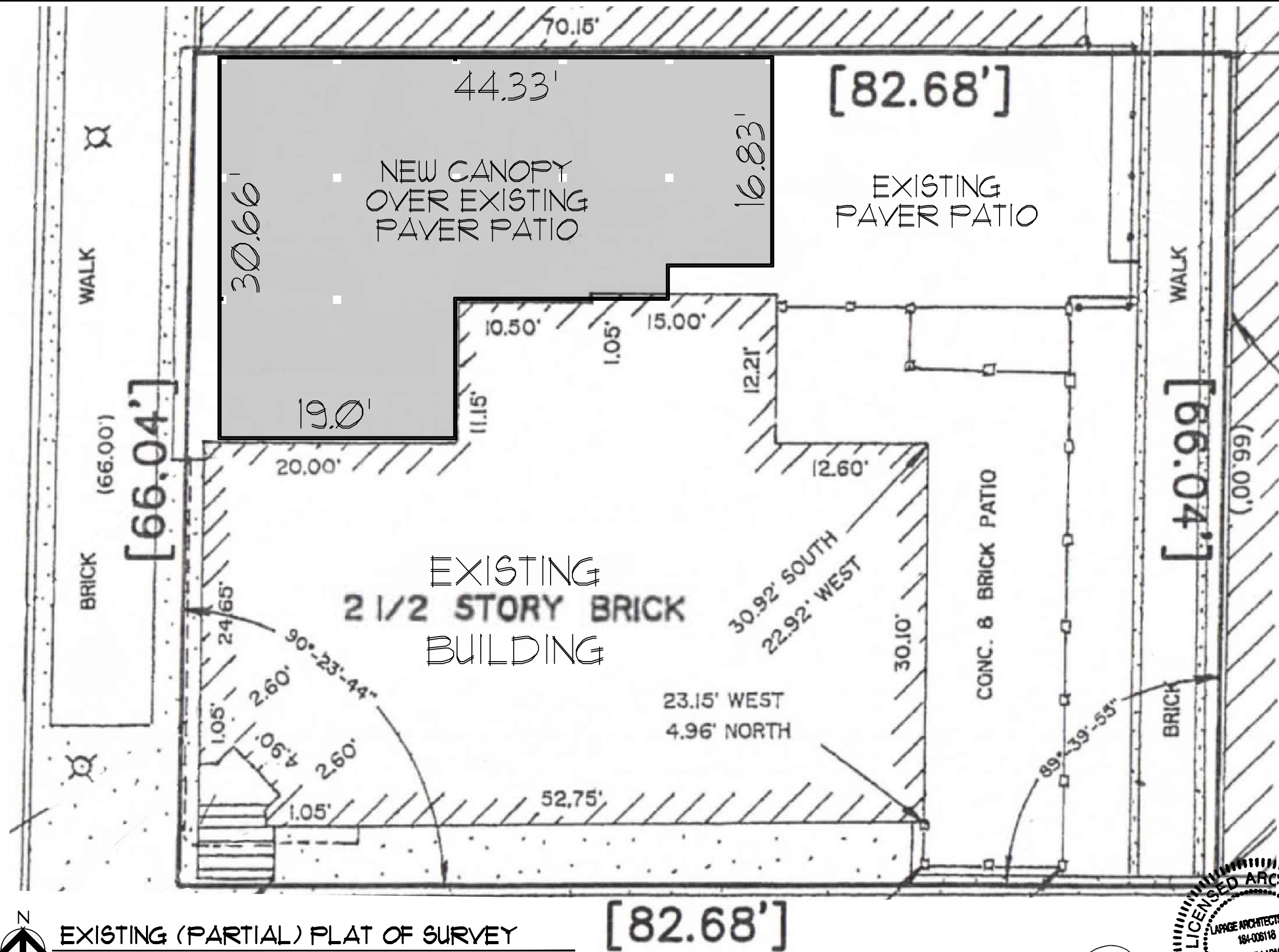


EXISTING (PARTIAL) PLAT OF SURVEY

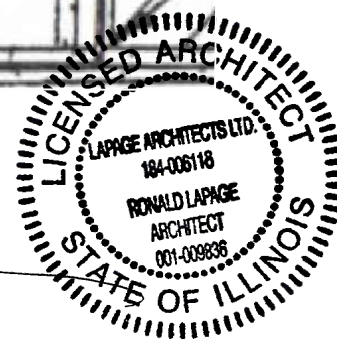
SCALE: 1/8" = 1'-0"

RELY ON PRINTED DIMENSIONS ONLY - DO NOT SCALE

PROVIDED BY THE OWNER TO DEPICT THE LOCATION  
OF THE PROPOSED CANOPY STRUCTURE



Ronald Lapage



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**THATCHER OAKS**  
**AWNINGS**

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1 N Vail Ave,  
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Drawing  
SITE PLAN W/  
LOCATION OF  
PROPOSED  
CANOPY

Sheet  
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## BUILDING DATA

Property Zoning/Use Group: B-5 (Existing & Proposed)  
 Existing Construction Type: III-A,  
 Occupancy: A-2  
 Fire Sprinklers/Alarm: Yes **(No)**

Total Tenant Space - 109 N. Hale: 2,520 Sq. Ft. (First Floor - Approximate)  
 Interior Areas: 445 Sq. Ft. (Second Floor - Approximate)

Building Height: Existing- No Change;  
 Interior Remodeling/Build-Out Only

OCCUPANT LOAD	Sq. Ft.	Sq. Ft. per Person per IBC 1004.1.2	Occupants per IBC 1004.1.2	Proposed Occupant Load (per seating or use)
EXISTING INTERIOR DINING AREA Assembly- Unconcentrated Tables & Chairs - Dining Area	1,330	15	88.67	74
COVERED PATIO AREA ONLY Assembly- Unconcentrated Tables & Chairs - Dining Area	960	15	64.00	61
Assembly- Concentrated (chairs only-not fixed)- Dining Counter Seating Area	180	7	25.71	17
Kitchen/Beverage Prep. Areas	350	200	1.75	1
<b>TOTALS</b>			<b>180.13</b>	<b>153</b>

### LEGEND

— EXIT PATH OF TRAVEL  
 ➔ "X" EXIT AND OPENING SIZE

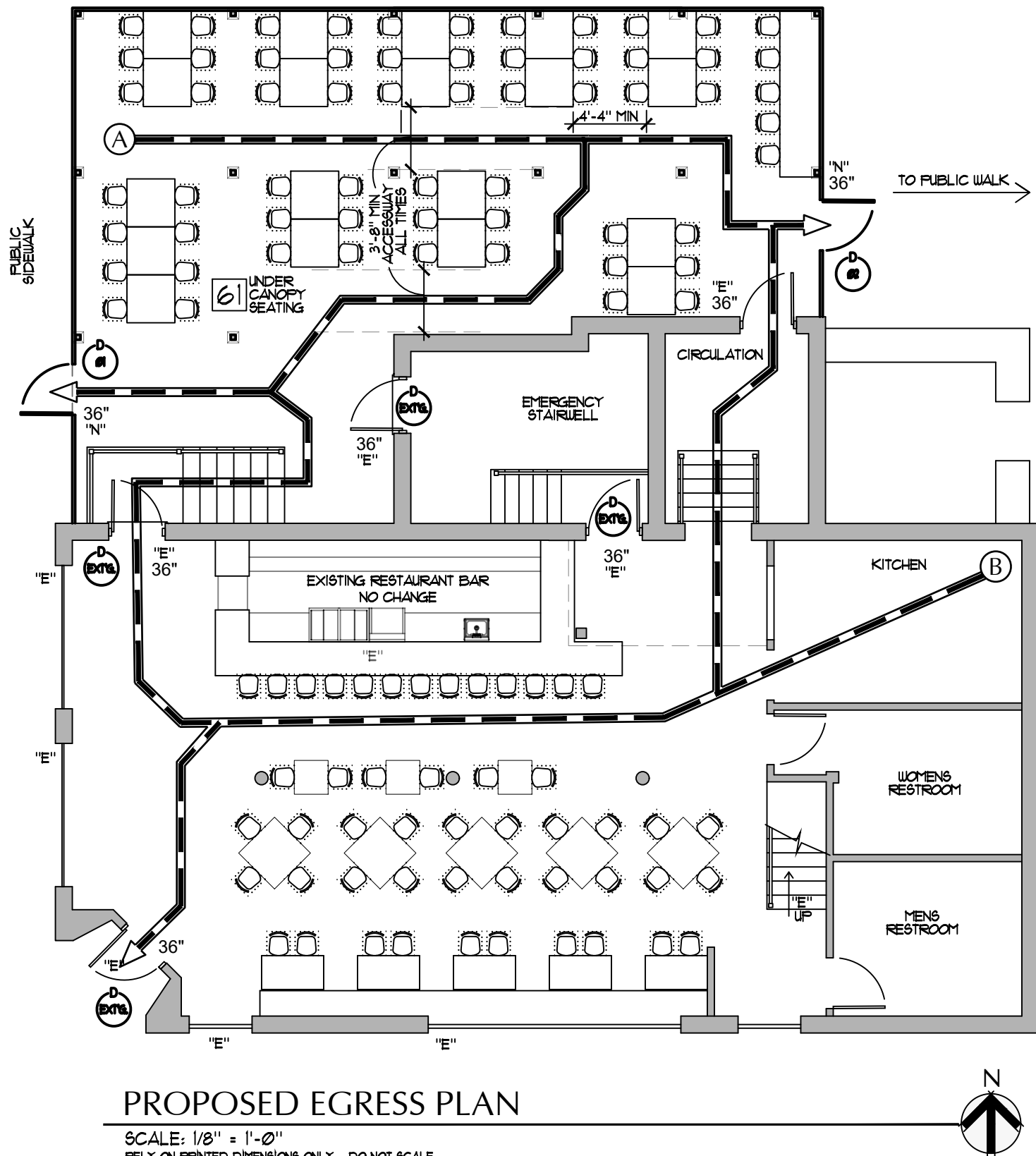
NOTE: ACCESS AND EGRESS ROUTES WILL BE MAINTAINED AT ALL TIMES SO THAT ANY INDIVIDUAL IS ABLE TO MOVE WITHOUT UNDUE HINDRANCE, ON PERSONAL INITIATIVE AT ANY TIME, FROM AN OCCUPIED POSITION TO THE EXITS.

### EXIT TRAVEL DISTANCE

ROUTE	MAX. DISTANCE
A (EAST)	45'
A	67'
B (WEST)	96'
B (SOUTH)	65'
B (EAST)	51'

### EXIT COMPONENTS

EGRESS WIDTH REQUIRED	44" MIN, 36" MIN. FOR OCCUPANCY LESS THAN 50 PEOPLE AND/ OR 2 IN. PER OCCUPANT
EGRESS WIDTH PROVIDED	FOUR (4) EXISTING EXIT DOORS AT 36" EA.
EXIT ACCESS TRAVEL DISTANCE	150' ALLOWABLE- ASSEMBLY OCCUPANCY
CORRIDOR WIDTH	44" MIN, 36" MIN. FOR OCCUPANCY LESS THAN 50 PEOPLE
DOOR WIDTH	MIN. 32 INCHES CLEAR



## PROPOSED EGRESS PLAN

SCALE: 1/8" = 1'-0"  
 RELY ON PRINTED DIMENSIONS ONLY - DO NOT SCALE



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Drawing  
 BUILDING DATA  
 AND EGRESS  
 PLAN

Sheet  
**T3**  
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# GENERAL CONSTRUCTION NOTES

## GENERAL NOTES:

1. CONTRACTORS SHALL VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS, SERVICES, UTILITIES AND DIMENSIONS. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
2. ALL WORK SHALL MEET ALL LOCAL AND STATE CODES.
3. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING, DEMOLITION, FITTING, PATCHING, REPAIRING, FINISHING, AND ETC. FOR THE PROPER INSTALLATION OF THEIR WORK.
4. NOISE AND DUST SHALL BE HELD TO THE MINIMUM.
5. ALL ELECTRICAL, CUTTING, FITTING, DRILLING AND SIMILAR WORK SHALL BE DONE AS REQUIRED.
6. REMOVE ALL UNWANTED MATERIALS FROM THE SITE. RUBBISH AND DEBRIS MUST BE REMOVED FROM WORK AREA DAILY.
7. ALL INTERIOR FINISHES SHALL BE OF 0-25 FLAME SPREAD RATING.
8. CONTRACTOR SHALL PRESENT THE BUILDING TO THE OWNER FOR ACCEPTANCE, CLEAN AND READY FOR OCCUPANCY.
9. CONTRACTOR SHALL FURNISH ALL BOND REQUIREMENTS FOR THEMSELVES AND HIS SUB CONTRACTORS.
10. INCLUDED IN BID, SHALL BE PRICE FOR ALL LOCAL PERMITS AND CONTRACTOR LICENSES, BIDS, ETC.
11. VERIFY SERVICE POINTS ELECTRICAL STARTING POINTS AND CAPACITIES PRIOR TO START OF ANY WORK.
12. CONTACT THE OWNER AND/OR ARCHITECT TO VERIFY SELECTIONS OF ALL FINISHES, COLORS, ETC.
13. ALL CABINET AND FIXTURE DRAWINGS ARE DIAGRAMMATIC. FIELD MEASURE ALL SPACES AND UNITS PRIOR TO START OF FABRICATION.
14. ANY QUESTIONS AND DISCREPANCIES REGARDING SIZES AND CONFIGURATION OF FIXTURES AND CASEWORK AND/OR EQUIPMENT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
15. ALL HARDWARE ON ALL DOORS NEW OR EXISTING SHALL COMPLY WITH ILLINOIS ACCESSIBILITY CODE AND SHALL BE ADA RATED.
16. CONTRACTOR TO VERIFY THE MOISTURE LEVEL OF CONCRETE PRIOR TO INSTALLATION OF ANY COLUMNS.

## DOOR HARDWARE:

1. ALL DOORS NEW OR EXISTING SHALL COMPLY WITH ILLINOIS ACCESSIBILITY CODE AND SHALL BE ADA RATED.
2. ALL DOOR HANDLES SHALL BE LEVER TYPE AND SHALL MEET ADA/IAC STANDARDS.
3. DOOR HARDWARE SHALL BE CAPABLE OF OPERATION WITH THE USE OF ONE (1) HAND AND SHALL NOT REQUIRE TIGHT PINCHING, TIGHT GRASPING OR TWISTING OF THE WRIST TO OPERATE. THUMBTURN DEADBOLTS ARE PROHIBITED, LEVER OR PADDLE DEADBOLT RELEASES ARE ACCEPTABLE. DOOR THRESHOLD SHALL NOT EXCEED ONE-HALF INCH (1/2") IN HEIGHT, THRESHOLDS EXCEEDING ONE-QUARTER INCH (1/4") IN HEIGHT SHALL HAVE A 1:2 BEVEL. DOOR CLOSERS SHALL MEET OPENING FORCE AND SWEEP PERIOD REQUIREMENTS.
4. ALL NEW HARDWARE FINISHES ARE TO BE SELECTED BY OWNER, HARDWARE FINISH TO MATCH EXISTING UNLESS NOTED OTHERWISE. VERIFY WITH OWNER PRIOR TO ORDERING/INSTALLING ANY HARDWARE.

## DECORATING NOTES:

1. ALL WALL COVERINGS SHALL BE CLASS I WITH A FLAME SPREAD RATING OF 1-25 AND A SMOKE DEVELOPED RATING OF 1-450.

## ELECTRICAL NOTES:

1. ALL WORK TO COMPLY WITH 2011 NATIONAL ELECTRIC CODE AND 2015 INTERNATIONAL ENERGY CONSERVATION CODE.
2. LIGHTING REQUIREMENTS - PER 2015 IECC SECTION C405.2.1 - OCCUPANT SENSOR CONTROLS SHALL BE PROVIDED IN OFFICES, CONFERENCE ROOM, RESTROOM AND STORAGE ROOMS. OCCUPANT SENSOR CONTROLS SHALL:
  - 2.1. AUTOMATICALLY TURN OFF LIGHTS WITHIN 30 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.
  - 2.2. BE MANUAL ON OR CONTROLLED TO AUTOMATICALLY TURN THE LIGHTING ON TO NOT MORE THAN 50 PERCENT POWER (EXCEPT RESTROOMS).
  - 2.3. SHALL INCORPORATE A MANUAL CONTROL TO ALLOW OCCUPANTS TO TURN LIGHTS OFF.
3. PROVIDE TIME SWITCH CONTROL TO ANY AREA NOT PROVIDED WITH AN OCCUPANT CONTROL SENSOR PER 2015 IECC C405.2.2 & C405.2.2.1
4. SPACES REQUIRED TO HAVE LIGHT-REDUCTION CONTROLS SHALL HAVE A MANUAL CONTROL THAT ALLOWS THE OCCUPANT TO REDUCE THE CONNECTED LIGHTING LOAD IN A REASONABLY UNIFORM ILLUMINATION PATTERN BY AT LEAST 50 PERCENT. LIGHTING REDUCTION SHALL BE ACHIEVED BY ONE OF THE FOLLOWING OR ANOTHER APPROVED METHOD:
  - 4.1. CONTROLLING ALL LAMPS OR LUMINAIRES.
  - 4.2. DUAL SWITCHING OF ALTERNATE ROWS OF LUMINAIRES, ALTERNATE LUMINAIRES OR ALTERNATE LAMPS.
  - 4.3. SWITCHING THE MIDDLE LAMP LUMINAIRES INDEPENDENTLY OF THE OUTER LAMPS.
  - 4.4. SWITCHING EACH LUMINAIRE OR EACH LAMP.
5. EXT'G. EXTERIOR LIGHTING PROPOSED TO BE RELOCATED, VERIFY WEATHERPROOF EMERGENCY LIGHTING ON THE OUTSIDE OF EACH EXTERIOR EXIT DOOR TO ILLUMINATE THE EXIT DISCHARGE AND SHALL BE CONNECTED TO AN EMERGENCY ELECTRICAL SYSTEM (BATTERY BACK-UP) SO IN THE EVENT OF POWER FAILURE, ILLUMINATION WILL CONTINUE FOR A DURATION OF 90-MINUTES.
6. EMERGENCY LIGHTING AND EXIT SIGNS SHALL BE BATTERY BACK-UP TYPE AND SHALL BE SPACED & LOCATED THROUGHOUT ALL OCCUPIED SPACES TO MEET APPLICABLE CODES AND ARE SUBJECT TO APPROVAL OF THE CITY OF Wheaton AND THE Wheaton FIRE DEPARTMENT. FIXTURES TO BE CIRCUITED PER 1999 NEC, ARTICLE 700.  
ELECTRICAL PANEL
  1. CONTRACTOR TO PROVIDE PRINTED CIRCUIT DIRECTORY ON INTERIOR SIDE OF PANEL DOORS.
  8. CONTRACTOR TO PROVIDE PANEL CHART AT TIME OF INSPECTIONS.
  9. ELECTRICAL CONTRACTOR TO VERIFY CIRCUIT LOCATIONS AND ADJUST AS REQUIRED.
  10. ALL EQUIPMENT AND TERMINATIONS RATED AT SEVENTY-FIVE DEGREES TO USE THHN or THUN DEPENDING ON LOCATION.
  11. FIELD INSPECTOR TO VERIFY THAT ELECTRICAL SERVICE MAIN DISCONNECT IS INSTALLED AT A READILY ACCESSIBLE LOCATION AND BE INTEGRATED INTO THE METER ENCLOSURE.
  12. PANEL WORKING SPACE: MINIMUM WORKING SPACE FOR ALL SERVICE PANELS OPERATING AT 600 VOLTS, NOMINAL, OR LESS. THE MINIMUM WIDTH SHALL BE THIRTY INCHES (30") OR THE WIDTH OF THE EQUIPMENT GREATER THAN THIRTY INCHES (30") AND A MINIMUM DEPTH OF THREE FEET (36").
  13. ALL EQUIPMENT AND APPLIANCES SHALL BE INSTALLED IN ACCORDANCE WITH THEIR LISTINGS AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PER ALL PROVISIONS OF THE BUILDING CODE. A COPY OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE PROVIDED ON SITE FOR EACH INSPECTION.
  14. INSTALL SMOKE DETECTOR WIRED IN SERIES w/ BATTERY BACK-UP PER PLAN ON EACH LEVEL.
  15. INSTALL CARBON MONOXIDE DETECTOR w/ BATTERY BACK-UP PER PLAN ON EACH LEVEL.
  5. PROVIDE BLOCKING IN ALL WALLS TO BE SUPPORTING, (INCLUDING BUT NOT LIMITED TO): PLUMBING ITEMS, ELECTRICAL FIXTURES, GRAB BARS, WALL MOUNTED SHELVEING, ETC.

## CANOPY NOTES:

1. CONTRACTOR TO CONFIRM MOUNTING HEIGHT.
2. BOTTOM OF CANOPY TO BE A MINIMUM OF 1'-0" ABOVE EXISTING PAVED WALKWAY AT LOWEST PART OF AWNING.
3. DRAINAGE FROM AWNING WILL NOT INTERFERE WITH PEDESTRIAN SIDEWALK TRAFFIC.
4. BRACING IS DESIGNED TO OVERCOME UPLIFT AND TURNING FORCES. MINIMUM VALUE 130 MPH
5. DESIGN VALUE: TENSILE STRENGTH = 100,000 PSI
6. WIND LOAD VALUE: 130 MPH
7. SNOW LOAD MINIMUM = 40 P.S.F.
8. ROOF DEAD LOAD MINIMUM = 20 P.S.F.
9. CANOPY WIND PRESSURE (UPLIFT) MINIMUM = 40 P.S.F.

## ACCESSIBILITY NOTES:

1. INDICATE TACTILE WARNINGS ON DOORS TO HAZARDOUS AREAS PER IAC SECTION 400.310(1).
2. PROVIDE AND INSTALL ADA RATES SIGNS BY ALL WASHROOMS, ENTRANCES, HAZARDOUS AREAS, MECHANICAL ROOMS, EXITS ETC. AS REQUIRED PER LOCAL CODES, A.D.A. AND I.A.C. REQUIREMENTS AND THE LOCAL FIRE DEPARTMENT.
3. CHARACTER PROPORTION: LETTERS AND NUMBERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO BETWEEN 3:5 AND 1:1 AND A STROKE-WIDTH-TO-HEIGHT RATIO BETWEEN 1:5 AND 1:10
4. CHARACTER HEIGHT: CHARACTERS AND NUMBERS ON SIGNS SHALL BE SIZED ACCORDING TO THE VIEWING DISTANCE FROM WHICH THEY ARE TO BE READ. THE MINIMUM HEIGHT IS MEASURED USING AN UPPER CASE X. LOWER CASE CHARACTERS ARE PERMITTED. WHEN SIGNS ARE SUSPENDED OR PROJECTED OVERHEAD IN COMPLIANCE WITH SUBSECTION (a)(4) OF THIS SECTION, MINIMUM CHARACTER HEIGHT SHALL BE 3 INCHES OR 15 mm.
5. RAISED AND BRAILLED CHARACTERS AND PICTORIAL SYMBOL SIGN (PICTOGRAMS): LETTERS AND NUMERALS SHALL BE RAISED 1/32 in. (32 mm) UPPER CASE, SANS SERIF OR SIMPLE SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8 in. (16 mm) HIGH, BUT NO HIGHER THAN 2 in. (50 mm). PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6 in. (152 mm) MINIMUM IN HEIGHT.
6. FINISH AND CONTRAST: THE CHARACTERS AND BACKGROUND OF SIGNS SHALL BE EGGSHELL, MATTE, OR OTHER NON-GLARE FINISH. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND - EITHER LIGHT CHARACTERS ON A DARK BACKGROUND OR DARK CHARACTERS ON A LIGHT BACKGROUND.
7. MOUNTING LOCATION AND HEIGHT: WHERE PERMANENT IDENTIFICATION IS PROVIDED FOR ROOMS AND SPACES, SIGNS SHALL BE INSTALLED ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR WHERE THERE IS NO WALL SPACE TO THE LATCH SIDE OF THE DOOR, INCLUDING AT DOUBLE LEAF DOORS, SIGNS SHALL BE PLACED ON THE NEAREST ADJACENT WALL. MOUNTING HEIGHT SHALL BE 60 in. (1525 mm) ABOVE THE FINISH FLOOR TO THE CENTERLINE OF THE SIGN. MOUNTING LOCATION FOR SUCH SIGNAGE SHALL BE SO THAT A PERSON MAY APPROACH WITHIN 3 in. (76 mm) OF SIGNAGE WITHOUT ENCOUNTERING PROTRUDING OBJECTS OR STANDING WITHIN THE SWING OF A DOOR.
8. SEAT & MOUNTING DEVICES SHALL MEET THE FOLLOWING REQUIREMENTS:
  - BENDING STRESS INDUCED BY MAXIMUM BENDING MOMENT FROM APPLICATION OF 250 lbf SHALL BE LESS THAN ALLOWABLE STRESS FOR MATERIAL USED.
  - SHEAR STRESS INDUCED BY APPLICATION OF 250 lbf SHALL BE LESS THAN ALLOWABLE SHEAR STRESS FOR MATERIAL USED. IF CONNECTION BETWEEN SEAT AND MOUNTING BRACKET IS CONSIDERED TO BE FULLY RESTRAINED, THEN DIRECT AND TORSIONAL SHEAR STRESSES SHALL BE TOTALED FOR THE COMBINED SHEAR STRESS, WHICH SHALL NOT EXCEED THE ALLOWABLE SHEAR STRESS.
  - SHEAR STRESS INDUCED IN A FASTENER OR MOUNTING DEVICE FROM APPLICATION OF 250 lbf SHALL BE LESS THAN ALLOWABLE LATERAL LOAD OF EITHER THE FASTENER OR MOUNTING DEVICE OR THE SUPPORTING STRUCTURE, WHICHEVER IS THE SMALLER ALLOWABLE LOAD.
  - TENSILE FORCE INDUCED IN A FASTENER BY A DIRECT TENSION FORCE OF 250 lbf PLUS THE MAXIMUM MOMENT FROM THE APPLICATION OF 250 lbf SHALL BE LESS THAN THE ALLOWABLE WITHDRAWAL LOAD BETWEEN THE FASTENER AND THE SUPPORTING STRUCTURE.

## NOTES PER ARLINGTON HEIGHTS BUILDING DEPARTMENT:

1. PROPANE HEATERS ARE NOT PERMITTED IN THE ENCLOSED PATIO.

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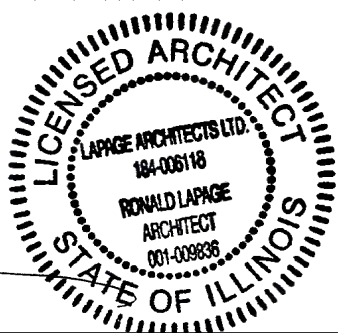
GENERAL NOTES

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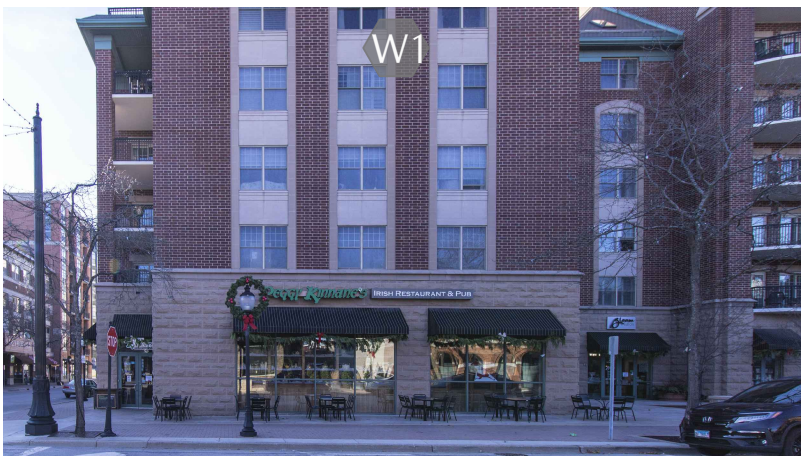
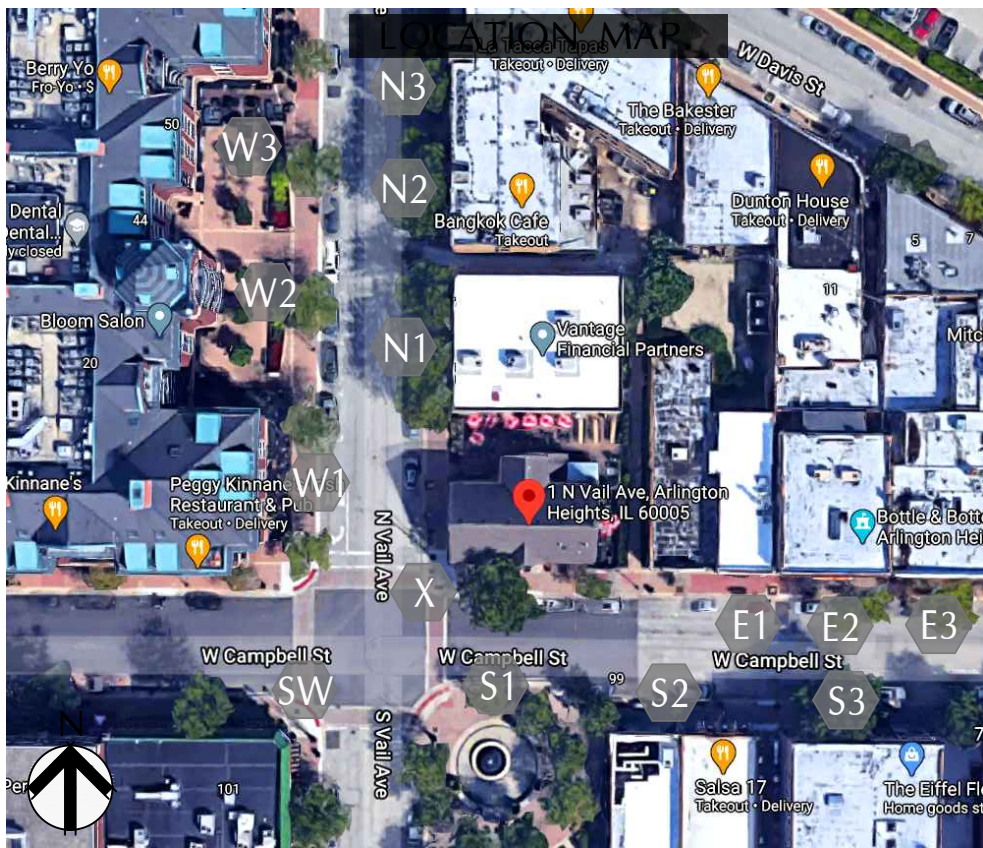
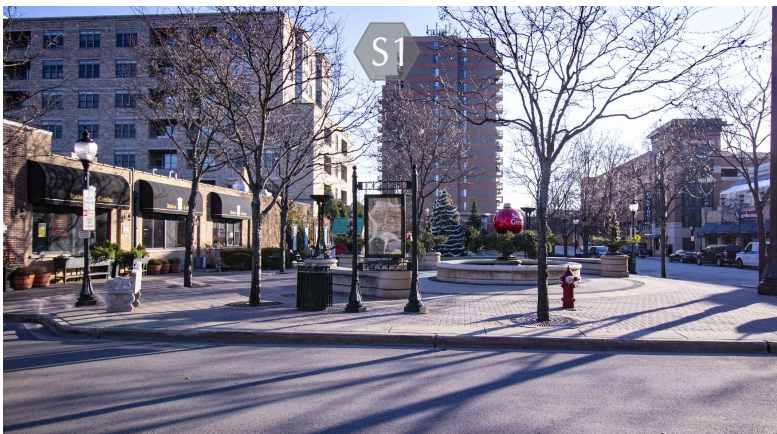
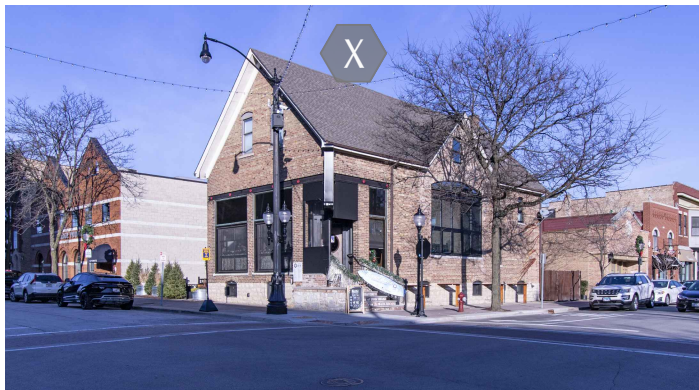
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Ronald Lapage







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PHOTOGRAPHS OF  
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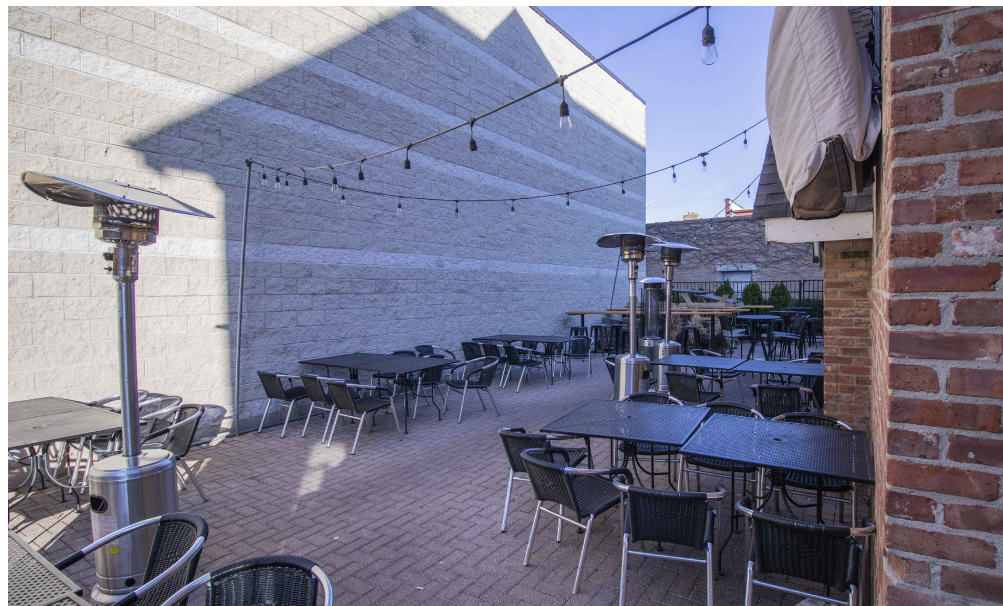




EXISTING FRONT OF BUILDING



EXISTING REAR OF BUILDING - CANOPY LOCATION



REAR PATIO - CANOPY LOCATION  
SHOWING ADJACENT BUILDING



EXISTING REAR OF BUILDING - CANOPY LOCATION

*Ronald Lapage*

LICENSED ARCHITECT  
LAPAGE ARCHITECTS LTD.  
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RONALD LAPAGE  
ARCHITECT  
001-009836  
STATE OF ILLINOIS

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Project #	20060
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Date:	12-09-2020
Issue and Revision Dates	
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REVISION 2	10-18-2021

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Proposed Canopy / Awning for:  
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1 N Vail Ave,  
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Drawing  
PHOTOGRAPHS  
OF PROPOSED  
LOCATION OF  
CANOPY

Sheet  
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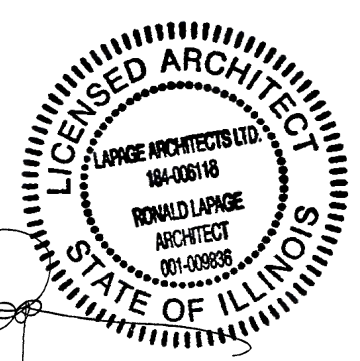
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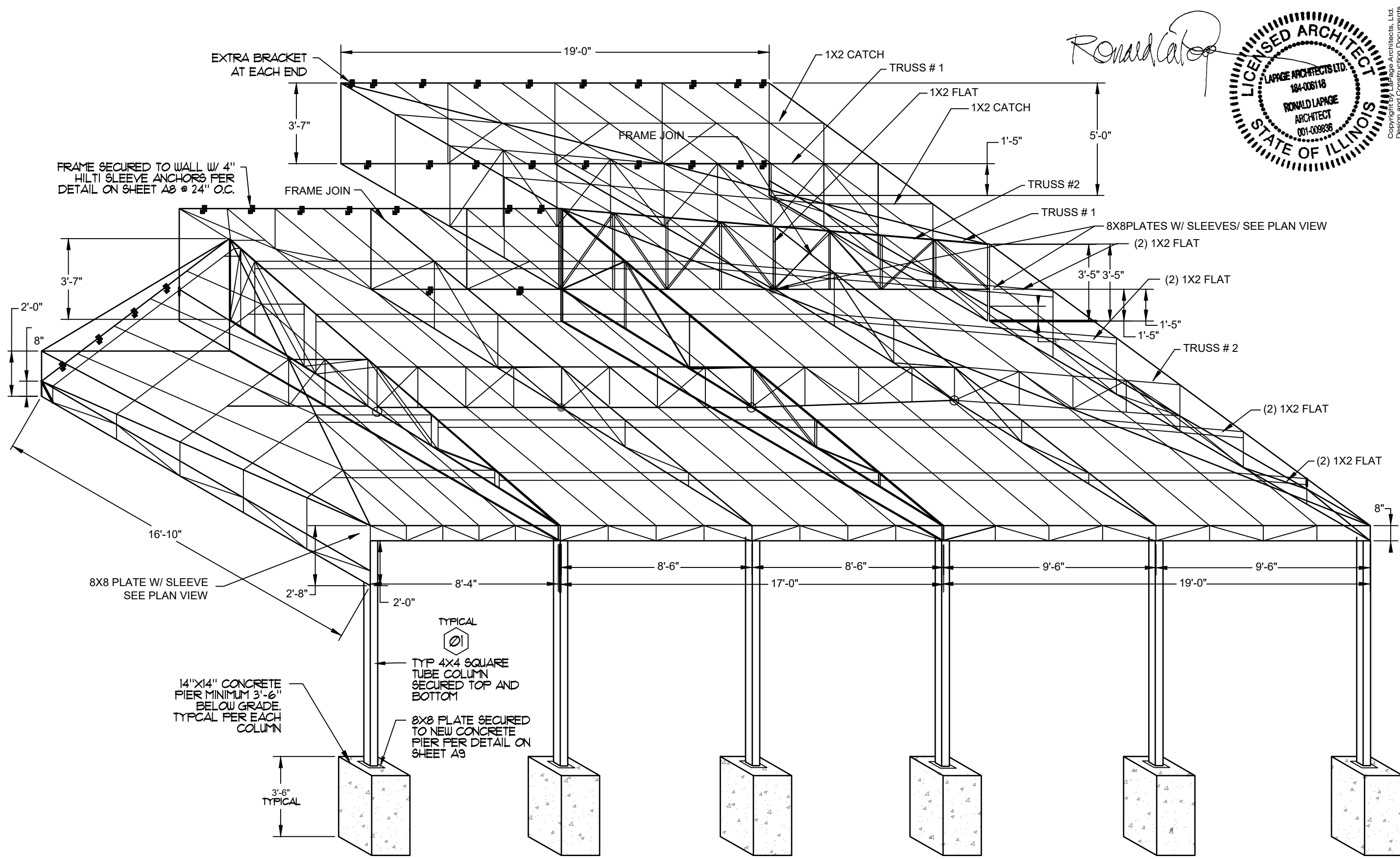
Drawing  
PROPOSED  
CANOPY  
STRUCTURE  
FLOOR PLAN

Sheet  
**A3**  
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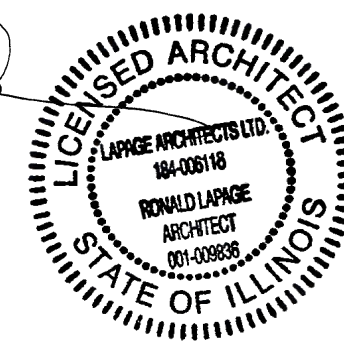
Ronald C. Lopez





**PROPOSED CANOPY STRUCTURAL ISOMETRIC DETAIL**

SCALE: NO SCALE  
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Drawing  
PROPOSED  
CANOPY  
STRUCTURAL  
ISOMETRIC DETAIL

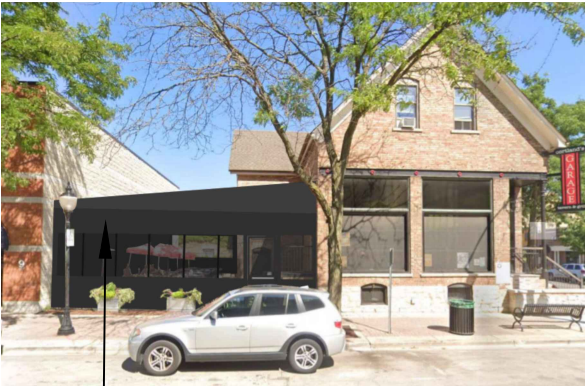
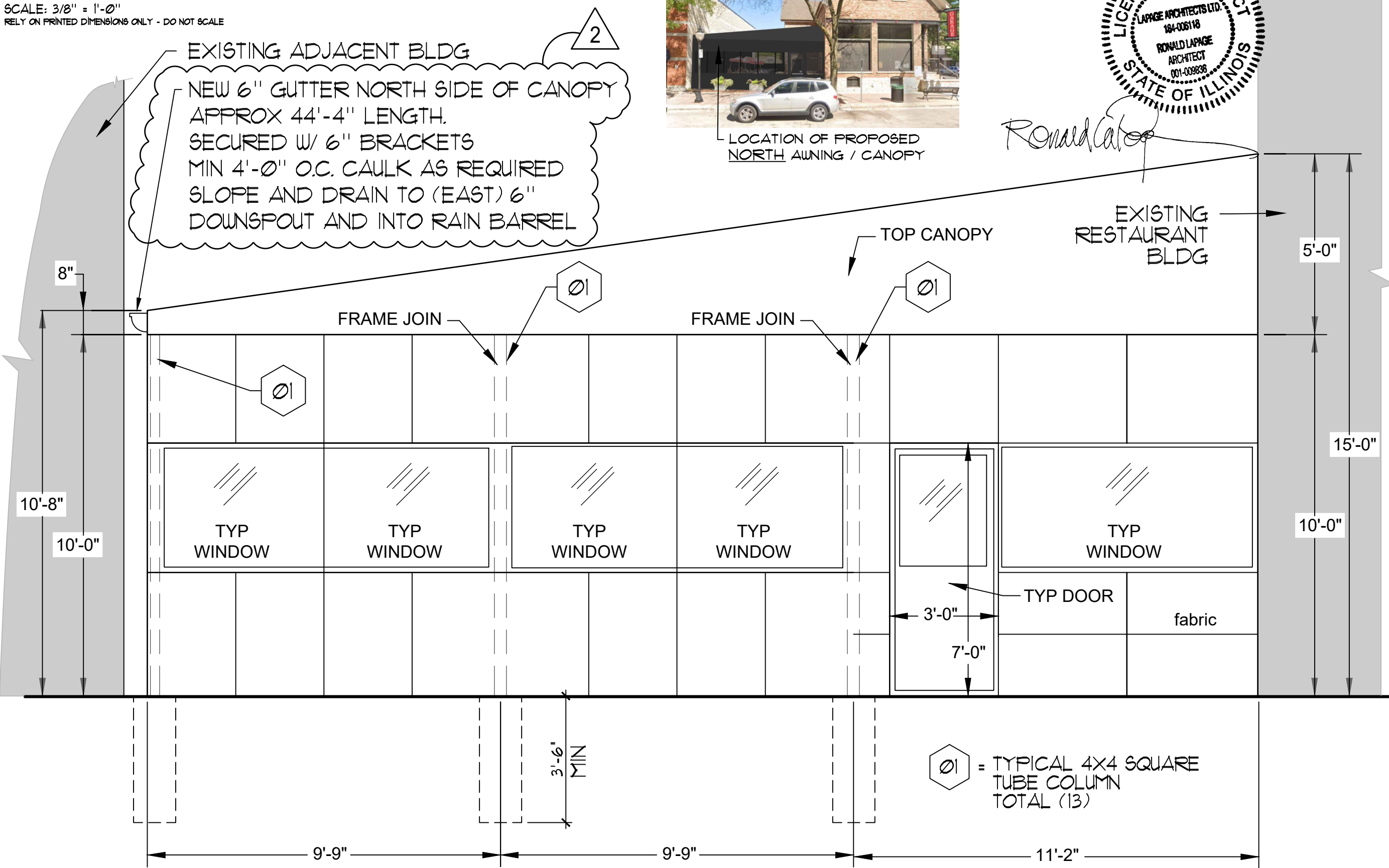
Sheet  
**A4**  
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PROPOSED  
CANOPY WEST ELEVATION

SCALE: 3/8" = 1'-0"  
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LOCATION OF PROPOSED  
NORTH AWNING / CANOPY



Ronald Lapage

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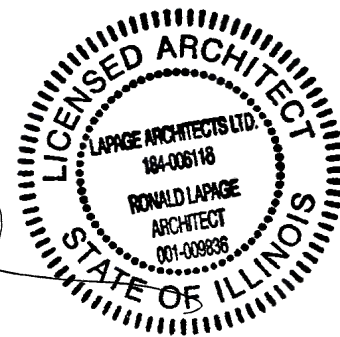
Proposed Canopy / Awning for:  
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Drawing  
PROPOSED  
CANOPY WEST  
ELEVATION

Sheet  
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Ronald Lapage

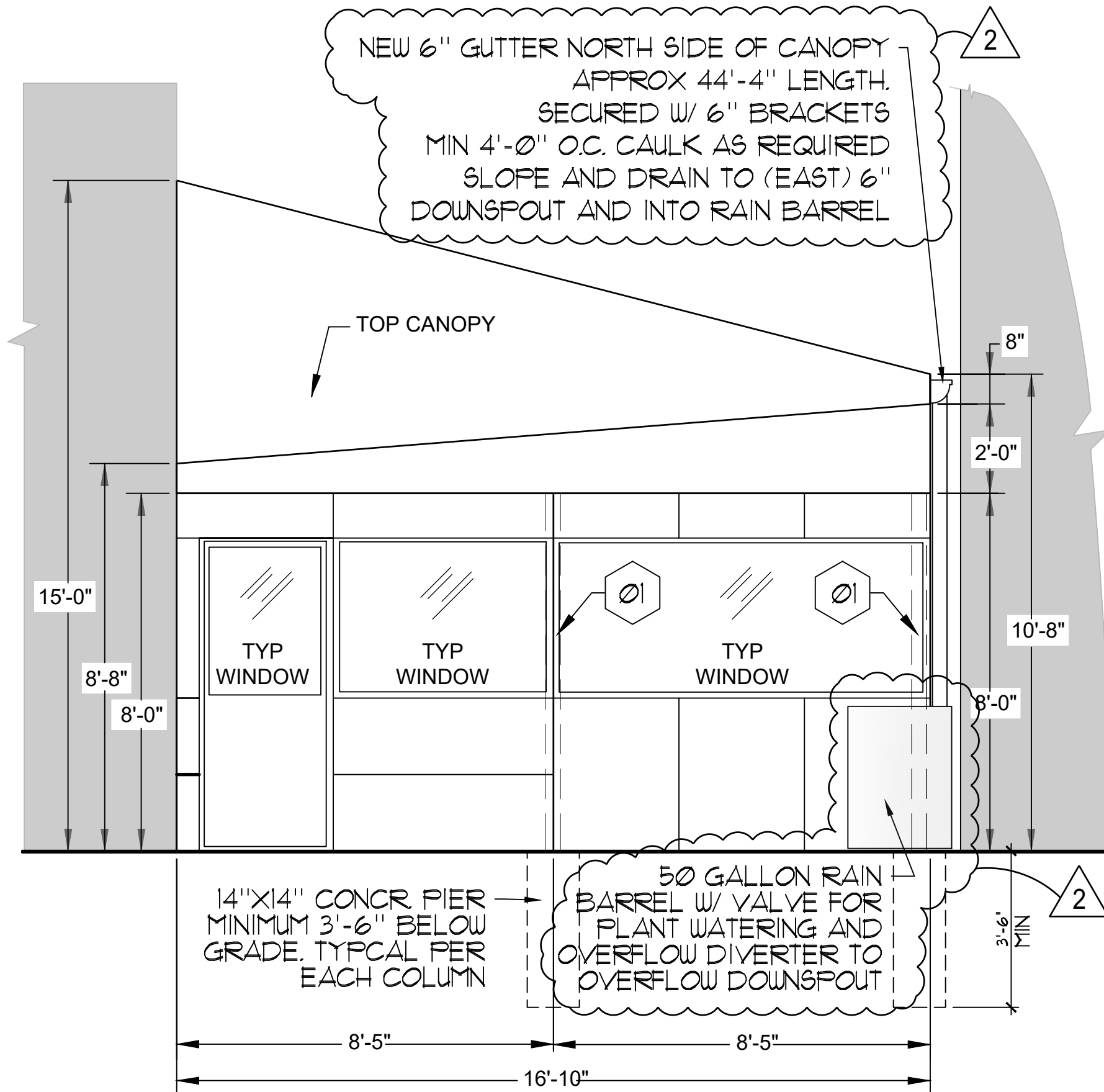


Ø1 = TYPICAL 4X4 SQUARE  
TUBE COLUMN  
TOTAL (13)

## PROPOSED EAST ELEVATION

SCALE: 3/8" = 1'-0"

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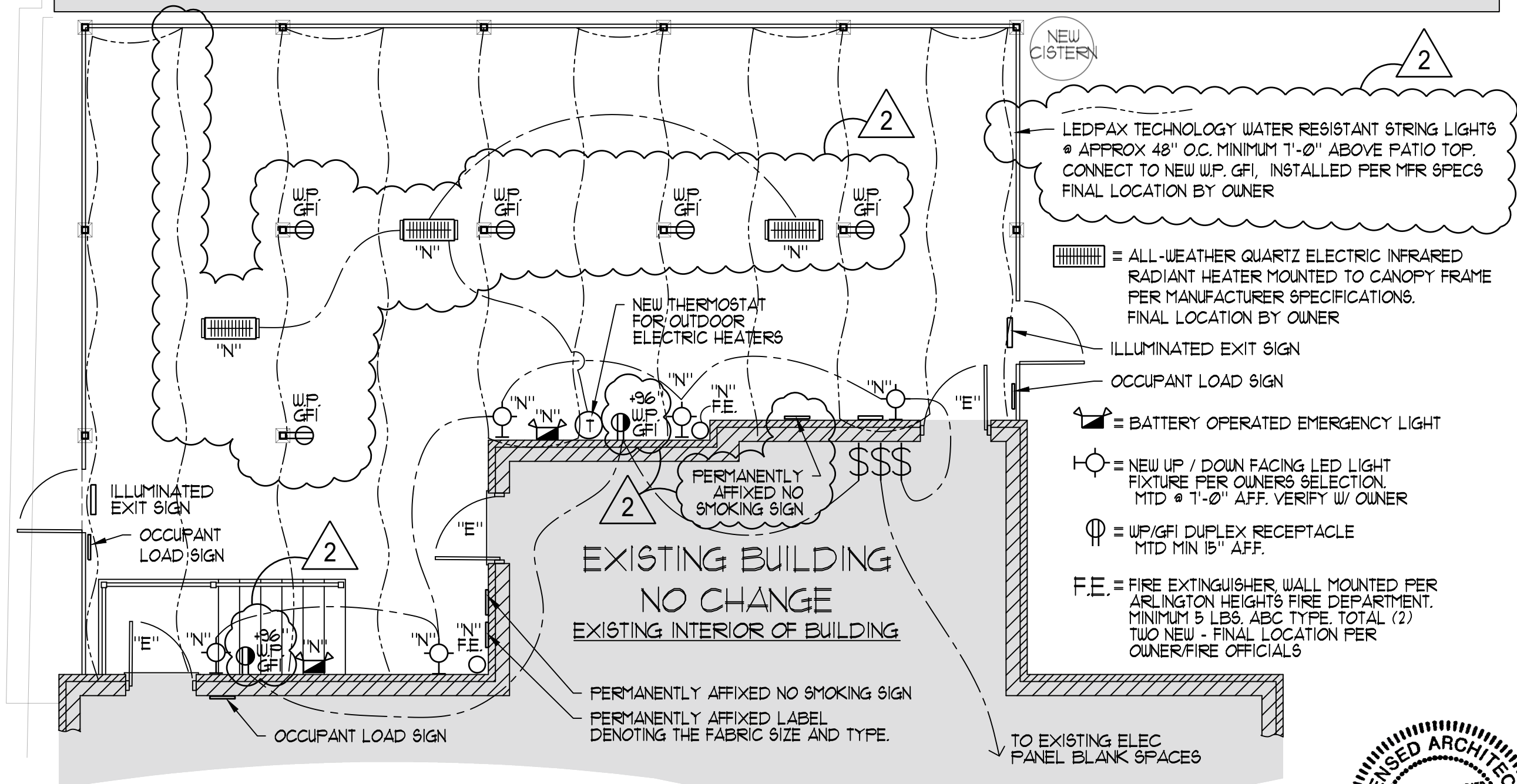
Drawing  
PROPOSED  
CANOPY EAST  
ELEVATION

Sheet  
**A6**  
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EXISTING WALK

EXISTING ADJACENT BUILDING  
NO CHANGE

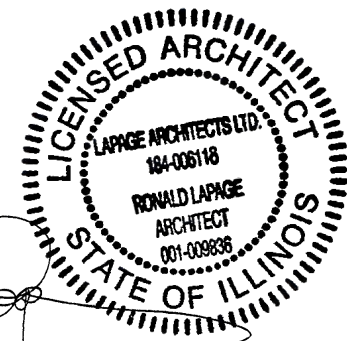


## PROPOSED CANOPY KEY PLAN

SCALE: 3/16" = 1'-0"  
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"E" = EXISTING  
"N" = NEW



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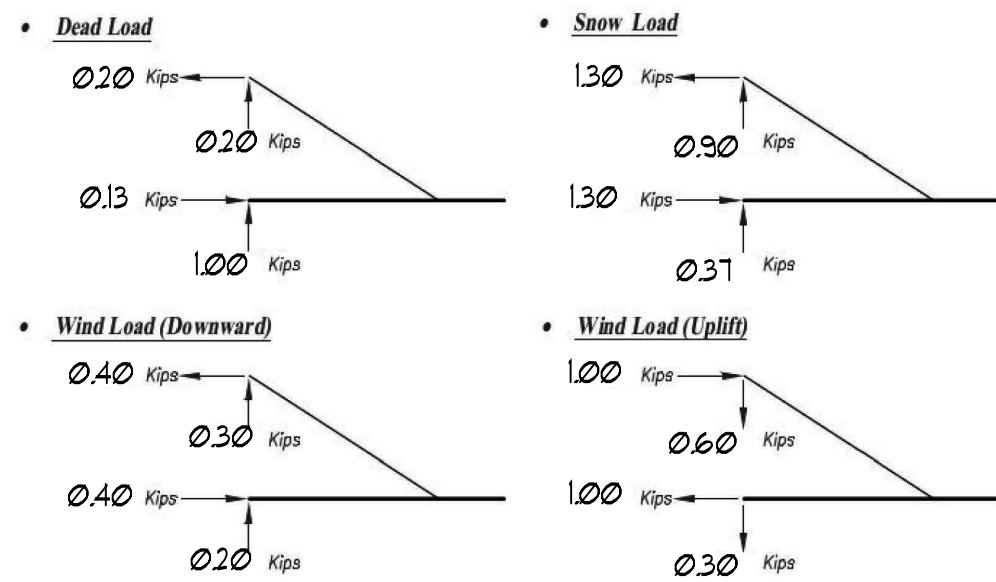
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Proposed Canopy / Awning for:  
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Drawing  
PROPOSED  
CANOPY  
ELECTRICAL  
FLOOR PLAN

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The above are the reactions due to the basic un-factored loads according to ASCE 7-10

## TYPICAL CANOPY LOADS

6061-T6 Aluminum		
Physical and Mechanical Properties	Ultimate Tensile Strength, psi	45,000
	Yield Strength, psi	40,000
	Brinell Hardness	95
	Rockwell Hardness	B60
Chemistry	Aluminum (Al)	95.8 - 98.6%
	Chromium (Cr)	0.04 - 0.35%
	Copper (Cu)	0.15 - 0.40%
	Iron (Fe)	0.70%
	Magnesium (Mg)	0.8 - 1.2%
	Manganese (Mn)	0.15% max
	Silicon (Si)	0.4 - 0.8%
	Zinc (Zn)	0.25%

## ALUMINUM SPECIFICATION



AWNING MATERIAL/COLOR:  
FERRARI 502V2-8450C BLACK

**MP-1A 1" x 1" x**  
**60-00-205 Medium Wall**  
**59-63-002 (TX) Medium Wall**



## TYPICAL FABRIC CONNECTION DETAIL

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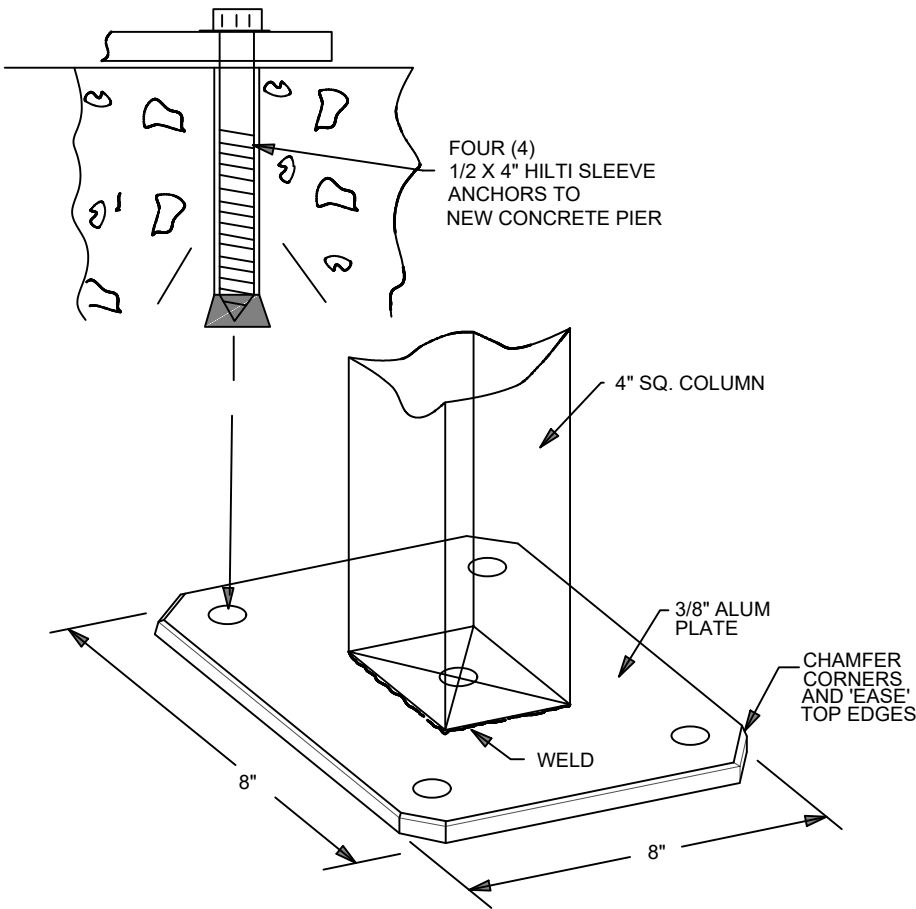
Drawing  
LOAD  
REQUIREMENTS,  
FABRIC & TUBE  
DETAILS

Sheet  
**A8**  
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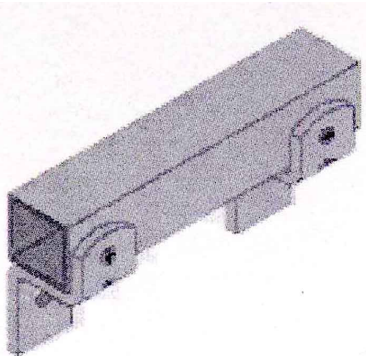
AWNING NOTES:

- CONTRACTOR TO CONFIRM EXISTING STRUCTURE AND CONTACT ARCHITECT IF ANY EXISTING CONDITIONS ARE DIFFERENT FROM WHAT IS IN THESE PLANS.
- WALL AND PROJECTION BARS SHALL BE 2" SQ. ALUMINUM @ 48" O.C. WITH STANDARD MILL FINISH SILVER
- RAFTER SPACING IS TO BE APPROX. 24" O.C.
- BACK BAR SPACING @ 48" O.C. TO ALIGN WITH MULLIONS
- TOP AND BOTTOM BARS SHALL BE 1" X 2" ALUMINUM WITH STANDARD MILL FINISH
- SPREADER AND HORIZONTAL CATCH BARS SHALL BE 1" X 2" WITH ALUMINUM STANDARD MILL FINISH
- AWNING DIMENSION TOTAL: 12'-1" PROJECTION X 3'-4" TALL
- MINIMUM 8'-0" HEIGHT CLEARANCE FROM HIGHEST POINT OF GRADE UNDER CANOPY.
- FLASHING ABOVE CANOPIES TO PREVENT WATER DRIP ONTO WALKWAY BELOW.



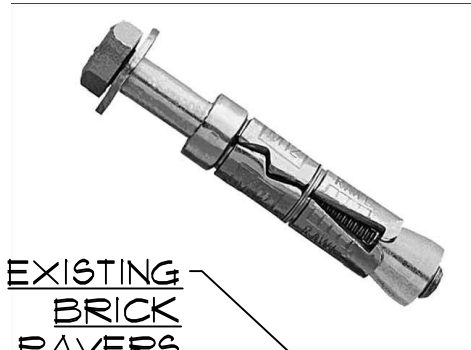
PROPOSED COLUMN CONNECTION TO CONCRETE WALK DETAIL

NO SCALE  
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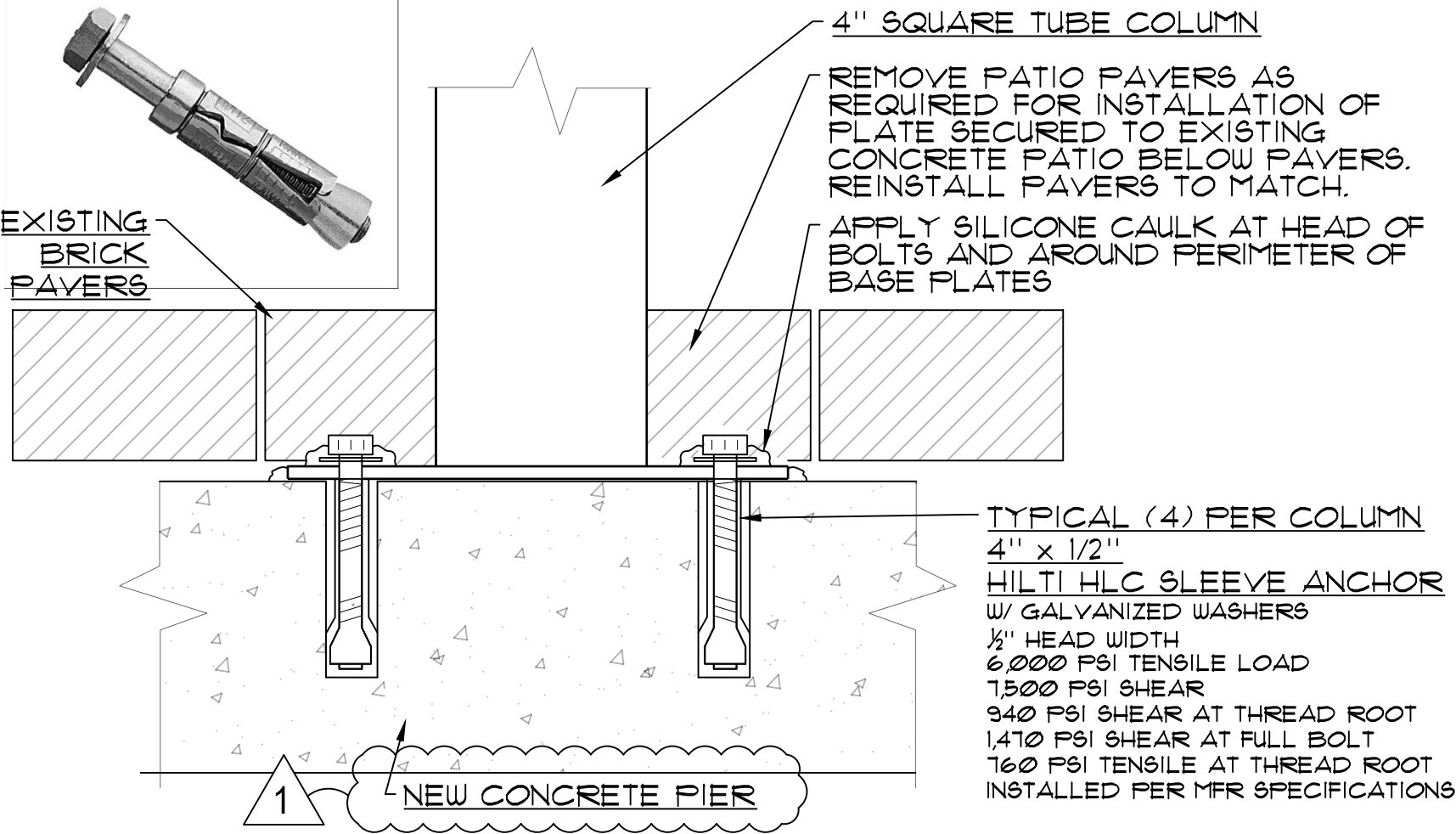


MOUNTING DETAIL

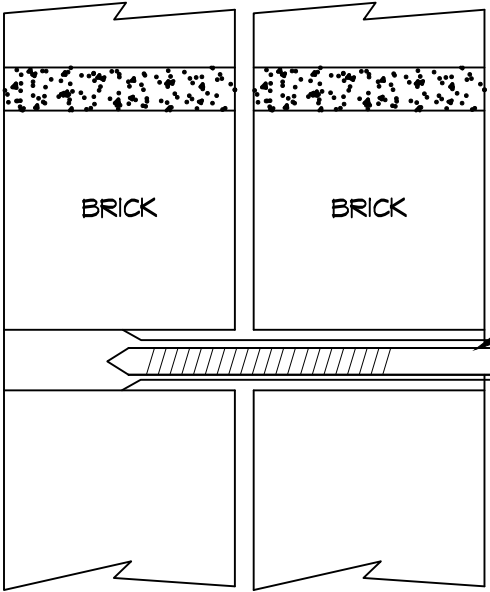
NO SCALE  
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EXISTING BRICK PAVERS



NEW CONCRETE PIER



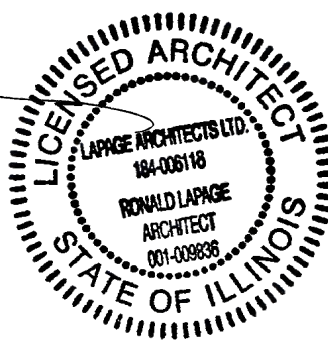
4" SQUARE TUBE COLUMN

REMOVE PATIO PAVERS AS REQUIRED FOR INSTALLATION OF PLATE SECURED TO EXISTING CONCRETE PATIO BELOW PAVERS. REINSTALL PAVERS TO MATCH.

APPLY SILICONE CAULK AT HEAD OF BOLTS AND AROUND PERIMETER OF BASE PLATES

TYPICAL (4) PER COLUMN  
4" x 1/2"  
HILTI HLC SLEEVE ANCHOR  
W/ GALVANIZED WASHERS  
1/2" HEAD WIDTH  
6,000 PSI TENSILE LOAD  
7,500 PSI SHEAR  
940 PSI SHEAR AT THREAD ROOT  
1,470 PSI SHEAR AT FULL BOLT  
160 PSI TENSILE AT THREAD ROOT  
INSTALLED PER MFR SPECIFICATIONS

Ronald Lapage



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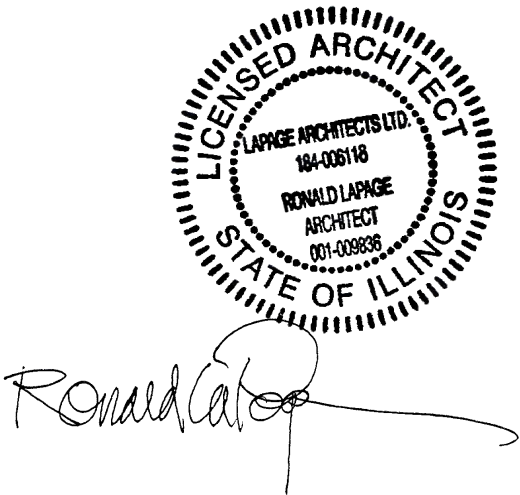
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Proposed Canopy / Awning for:  
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1 N Vail Ave,  
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Drawing  
MOUNTING AND  
POST AND BASE  
DETAILS

Sheet  
A9  
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## PRODUCT DESCRIPTION

Hilti HLC Sleeve Anchors are mechanical expansion anchors consisting of an externally threaded stud with an expanding sleeve for use in concrete and hollow and solid masonry base materials.

### Product Features

- Stud bolt type anchor design allows easy through-type fastenings and setting in bottomless hole.
- Pre-assembled anchor allows easy/fast installation.
- Anchor size is same as drill bit size allowing easy installation.
- Variety of head styles, lengths/sizes allow versatile application/use.
- Comprehensive testing to provide performance data in block, masonry/concrete base materials.

- Bulged mid-section with round and diamond shaped openings help prevent anchor from spinning in the hole or dropping out when being set overhead.

### Guide Specifications

**Expansion Anchor** Expansion anchors shall be stud or flush sleeve type and zinc plated in accordance with ASTM B633, Type II or stainless steel in accordance with AISI grade 304. Anchors shall be Hilti sleeve anchors as supplied by Hilti.

**Installation** Install sleeve anchors in holes drilled with Hilti carbide tipped drill bits. Install anchors in accordance with manufacturer's recommendations.

## MATERIAL SPECIFICATIONS

Carbon steel sleeves and spacers are manufactured from cold rolled steel

Carbon steel anchors are zinc plated to minimum 5 µm thickness in accordance with ASTM B633, Type II

Stainless steel anchor material (stud, sleeve, nuts and washers) meet the requirements for AISI 304 stainless steel

## TECHNICAL DATA

### Sleeve Anchor Specification Table

Anchor Size		in.	1/4	5/16	3/8	1/2	5/8	3/4	
		(mm)	(6.4)	(7.9)	(9.5)	(12.7)	(15.9)	(19.1)	
Details									
d	Thread diameter	in.	3/16	1/4	5/16	3/8	1/2	5/8	
d <sub>bit</sub>	Bit diameter <sup>1</sup>	in.	1/4	5/16	3/8	1/2	5/8	3/4	
h <sub>min</sub>	minimum depth of embedment	in.	1	1	1-1/4	1-1/2	2	2	
		(mm)	(25)	(25)	(32)	(38)	(51)	(51)	
h <sub>o</sub>	Minimum Hole depth	in.	1-3/8	1-3/8	1-3/4	2-1/8	2-5/8	2-5/8	
		(mm)	(35)	(35)	(45)	(54)	(67)	(67)	
T <sub>inst</sub>	Installation torque	HLC-HX, FPH, AC, RS, RC	ft-lb	2.2	5	10	15	60	90
			(Nm)	(3)	(6.8)	(13.6)	(20)	(81.4)	(122.1)
		HLC-H	ft-lb	-	12	18	35	-	-
			(Nm)		(16)	(24.4)	(47.4)		

1 Hilti carbide tipped drill bits

### Combined Shear and Tension Loading

$$\left(\frac{N_d}{N_{rec}}\right)^{5/3} + \left(\frac{V_d}{V_{rec}}\right)^{5/3} \leq 1.0 \quad (\text{Ref. Section 3.1.8.3})$$

## HILTI HLC SLEEVE ANCHOR SPECIFICATIONS

## TECHNICAL DATA

### Carbon Steel Sleeve Anchor Allowable Loads in Concrete<sup>1,2</sup>

Sleeve Anchor Size in. (mm)	Bolt Diameter in. (mm)	Embedment Depth in. (mm)	2000 psi (13.8 MPa)		4000 psi (27.6 MPa)		6000 psi (41.4 MPa)	
			Tension lb (kN)	Shear lb (kN)	Tension lb (kN)	Shear lb (kN)	Tension lb (kN)	Shear lb (kN)
1/4 <sup>3</sup> (6.4)	3/16 (4.8)	1 (25)	225 (1.0)	305 (1.4)	250 (1.1)	305 (1.4)	250 (1.1)	305 (1.4)
5/16 (7.9)	1/4 (6.4)	1 (25)	350 (1.5)	560 (2.5)	450 (2.0)	560 (2.5)	500 (2.2)	560 (2.5)
3/8 <sup>3</sup> (9.5)	5/16 (7.9)	1-1/4 (32)	450 (2.0)	870 (3.9)	565 (2.5)	870 (3.9)	700 (3.1)	890 (4.4)
1/2 (12.7)	3/8 (9.5)	1-1/2 (38)	675 (3.0)	1250 (5.6)	925 (4.1)	1325 (5.9)	1100 (4.9)	1325 (5.9)
5/8 (15.9)	1/2 (12.7)	2 (51)	1035 (4.6)	1750 (7.8)	1500 (6.7)	2295 (10.2)	1950 (8.7)	2295 (10.2)
3/4 (19.1)	5/8 (15.9)	2 (51)	1125 (5.0)	1750 (7.8)	1500 (6.7)	3000 (13.3)	1950 (8.7)	3010 (13.4)

- Based on a safety factor of 4.0.
- Refer to KWIK Bolt 3 data, in Section 3.3.6.4, for spacing and edge distance guidelines in Concrete.
- For 1/4" and 3/8" flat phillips and round head anchors, shear values should be reduced by 57% due to the potential of the shear acting through the hollow portion of the head.

### Stainless Steel Sleeve Anchor Allowable Loads<sup>1</sup>

Anchor Size in. (mm)		Embedment Depth in. (mm)	Concrete <sup>2</sup>						Hollow C-90 Concrete Block <sup>3,4</sup>						
			2000 psi (13.8 MPa)			4000 psi (27.6 MPa)			Tension lb (kN)		Shear lb (kN)				
			Tension lb (kN)		Shear lb (kN)	Tension lb (kN)		Shear lb (kN)							
1/4	(6.4)	1-1/8	(29)	235	(1.0)	450	(2.0)	300	(1.3)	450	(2.0)	200	(0.9)	400	(1.8)
5/16	(7.9)	1-1/4	(32)	310	(1.4)	675	(3.0)	410	(1.8)	675	(3.0)	335	(1.5)	600	(2.7)
3/8	(9.5)	1-1/2	(38)	450	(2.0)	1000	(4.4)	600	(2.7)	1000	(4.4)	470	(2.1)	890	(4.0)

- Based on using a safety factor of 4.0.
- Refer to KWIK Bolt 3 data, in Section 3.3.6.4 for spacing and edge distance guidelines in Concrete.
- ASTM Specification C90, Type II.
- Refer to HY 20 data, in Section 3.2.9.3, for spacing and edge distance guidelines in Hollow Concrete Block.

### Carbon Steel Sleeve Anchor Allowable Loads in Grout Filled Block<sup>1,2,3,4,5,6,7</sup>

Anchor Size in. (mm)	Embed. Depth in. (mm)	Edge Distance in. (mm)	Tension lb (kN)	Shear lb (kN)
1/4 (6.4)	1 (25)	4 (101) ≥ 12 (305)	290 (1.3)	305 (1.4)
5/16 (7.9)	1 (25)	4 (101) ≥ 12 (305)	385 (1.7)	500 (2.2)
3/8 (9.5)	1-1/4 (32)	4 (101) ≥ 12 (305)	435 (1.9)	725 (3.2)
1/2 (12.7)	1-1/2 (38)	4 (101) ≥ 12 (305)	605 (2.7)	865 (3.8) 1145 (5.1)
5/8 (15.9)	2 (51)	4 (101) ≥ 12 (305)	710 (3.2)	1050 (4.7) 1815 (8.1)
3/4 (19.1)	2 (51)	4 (101) ≥ 12 (305)	840 (3.7)	1050 (4.7) 1970 (8.8)

- Values are for Lightweight, Medium Weight or Normal Weight concrete masonry units conforming to ASTM C90 with 2000 psi grout conforming to ASTM C474.
- Embedment depth is measured from the outside face of the concrete masonry unit.
- Values are for anchors located in the grouted cell, bed joint, cross web or any combination of the above.
- For anchors installed in the "T" joint or head joint reduce tension values by 20%.
- Values for edge distances between 4 inches and 12 inches may be calculated by linear interpolation.
- Anchors are limited to one per unit cell.
- Based on using a safety factor of 4.0.

### Carbon Steel Sleeve Anchor Allowable Loads in Hollow Concrete Block<sup>1,2,3</sup>

Sleeve Anchor Size in. (mm)	Embedment Depth in. (mm)	Tension lb (kN)	Shear lb (kN)
1/4 (6.4)	1 (25)	350 (1.5)	305 (1.4)
5/16 (7.9)	1 (25)	375 (1.7)	560 (2.5)
3/8 (9.5)	1-1/4 (32)	435 (1.9)	800 (3.5)
1/2 (12.7)	1-1/2 (38)	565 (2.5)	1125 (5.0)

- Based on using a safety factor of 4.0.
- ASTM Specification C90, Type II.
- Refer to HY 20 data, in Section 3.2.9.3, for spacing and edge distance guidelines in Hollow Concrete Block.

### Carbon Steel Sleeve Anchor Allowable Loads in Clay Brick<sup>1,2,3</sup>

Anchor Size in. (mm)	Embedment Depth in. (mm)	Tension lb (kN)	Shear lb (kN)
1/4 (6.4)	1 (25)	295 (1.3)	335 (1.5)
5/16 (7.9)	1 (25)	345 (1.5)	530 (2.3)
3/8 (9.5)	1-1/4 (32)	375 (1.7)	850 (3.8)
1/2 (12.7)	1-1/2 (38)	435 (1.9)	1230 (5.5)

- Based on using a safety factor of 4.0.
- Due to wide strength variations encountered in masonry, these values should be considered as guide values.
- Refer to HY 20 data, in Section 3.2.9.3, for spacing and edge distance guidelines in brick.

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Issued for Permit	12-09-2020
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REVISION 2	10-18-2021

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**THATCHER OAKS**  
**AWNINGS**

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(630) 833-5700

Proposed Canopy / Awning for:  
**Cortland's Garage Tavern & Grill**  
**1 N Vail Ave,**  
**Arlington Heights, IL 60005**

Drawing  
HILTI SLEEVE  
ANCHOR  
SPECIFICATIONS

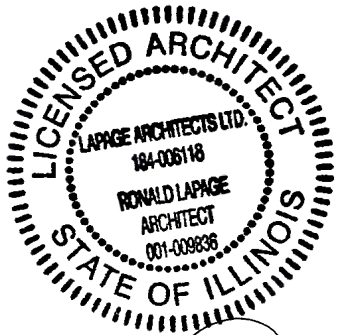
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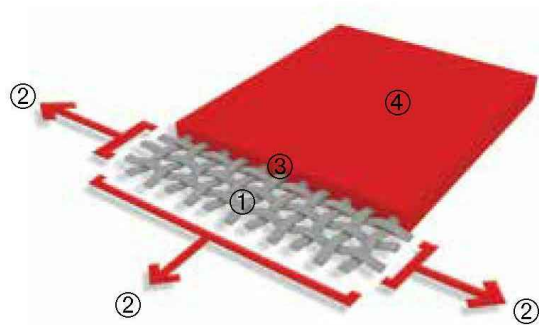




*Ronald Lapage*


■ Exclusive Précontraint® technology

Patented worldwide, the Précontraint® technology by Serge Ferrari involves keeping the composite under tension throughout the manufacturing process. This gives our materials exceptional performance that enables them to surpass market standards in terms of dimensional stability, mechanical strength, coating thickness and flatness.



High-tenacity polyester micro-yarn base cloth	①	Superior elongation and tear resistance
A coating with fabrics under bi-axial constant tension in both warp and weft directions	②	No deformation during processing and use
Thicker coating at the top of the yarns and a dirt resistant surface treatment	③	Superior aesthetic and mechanical durability
Exceptional flatness and thinness	④	Smooth easy to clean finish, space saving, easy rolling

Soltis  
Proof 502  
OR EQUAL

	■ Technical properties	Standards
Weight	16.8 oz/yd <sup>2</sup>	EN ISO 2286-2
Thickness	0.45 mm	
Width	70.8 in	
	■ Length of rolls	
Standard format length	43.7 yds	
	■ Physical properties	
Tensile strength (warp/weft)	200/200 daN/5 cm	EN ISO 1421
Tear strength (warp/weft)	20/20 daN	DIN 53.363
Adhesion	7/7 daN/5 cm	EN ISO 2411
	■ Surface treatment	
Finish	PVDF Varnish both sides	
	■ Flame retardancy	
Rating	Method 1 & 2/NFPA 701 — CSFMT19 — CLASS A/ASTM E84 — CAN/ULC-S109 — M2/NFP 92-507 B1/DIN 4102-1 — BS 7837 — 1530.2 et 3/AS/NZS — M2/UNE 23.727-90 — VKF 5.3/SN 198898 Schwerbrennbar Q1-Tr1/ONORM A 3800 — Group 1/AS NZS 3837 — Class 2/UNI 9177-87 G1/GOST 30244-94 — CPAI 84	
Euroclass	B-s2,d0	EN 13501-1
	■ Management systems	
Quality	ISO 9001	
	■ Certifications, labels, warranties, recycling	
	10-year warranty	 With S+ Serge Ferrari goes further than the standards. (Consult us for further information.)
	■ Tools and services	
	— Maintenance manual available on request	

The above technical data represent average values subject to a +/-5% tolerance.  
The buyer of our products is fully responsible for their application or their transformation concerning any possible third party. The buyer of our products is responsible for their implementation and installation according to the standards, workmanship and safety regulations in force in destination countries. For information on our contractual warranty, please refer to the relevant terms and conditions.  
The values quoted above represent results of tests performed in compliance with common design practices and are provided for information only to enable customers to make the best use of our products. Our products are subjects to evolutions due to technical progress, we remain entitled to modify the characteristics of our products at any time. The buyer of our products is responsible for checking the validity of the above data.

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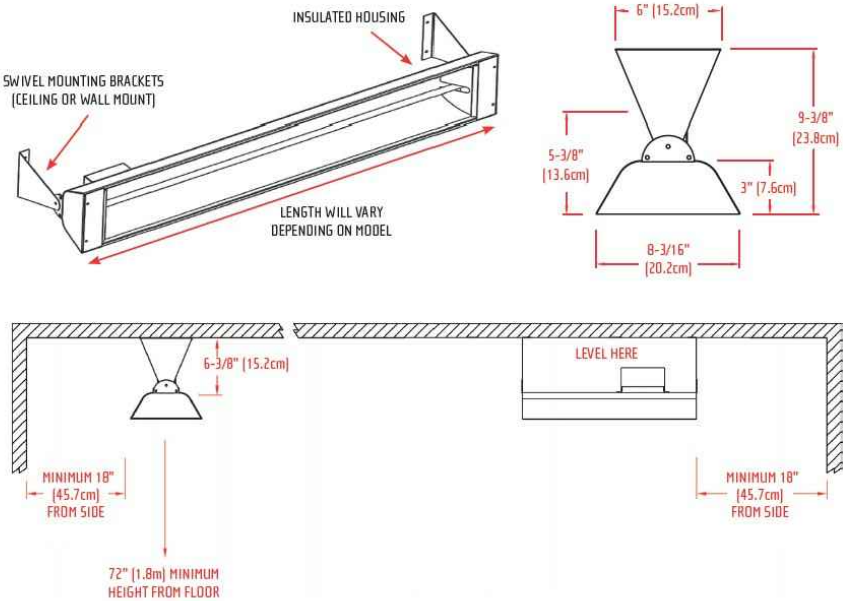
Proposed Canopy / Awning for:  
Cortland's Garage Tavern & Grill  
1 N Vail Ave,  
Arlington Heights, IL 60005

Drawing  
PROPOSED  
CANOPY FABRIC  
SPECIFICATIONS

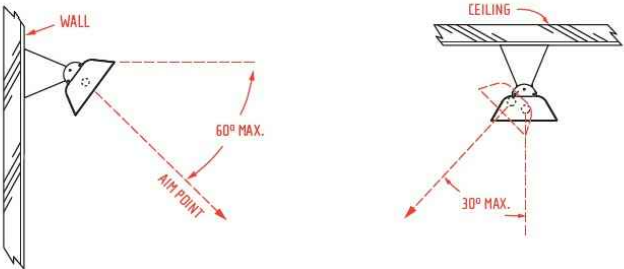
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A11  
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MOUNTING INSTRUCTIONS

These models may be chain or bracket mounted to any ceiling or horizontal surface. Installation must be such that 18" (45.7cm) minimum clearance is maintained around the heater on all four sides and 36" (91.4cm) directly in front. A minimum of 6" (15.24cm) of clearance provided by mounting brackets is required behind the plane of the face. Heater can be hung using chains or custom brackets. Heater must be level, but can be rotated around its horizontal axis.



Heater must be installed with the quartz tube horizontally level. For maximum tube life, use a carpenter's level tool to find the optimum level position for the heater's body. Always maintain the minimum clearances from the heater body to any combustible materials.



SINGLE ELEMENT AREAS COVERED (FEET)

MODEL	WATTS	MOUNTING HEIGHT	AVERAGE	COLD	PROTECTED
W-1512 SS	1,500	6' - 7' (1.8m - 2.4m)	5' x 5' (1.5m x 1.5m)	3' x 3' (0.91m x 0.91m)	7' x 7' (2.1m x 2.1m)
W-2024 SS	2,000	7' - 8' (2.1m - 2.7m)	6' x 6' (1.8m x 1.8m)	4' x 4' (1.2m x 1.2m)	8' x 8' (2.4m x 2.4m)
W-2524 SS	2,500	7' - 8' (2.1m - 2.7m)	7' x 7' (2.1m x 2.1m)	5' x 5' (1.5m x 1.5m)	9' x 9' (2.7m x 2.7m)
W-3024 SS	3,000	7' - 9' (2.1m - 2.7m)	8' x 8' (2.4m x 2.4m)	6' x 6' (1.8m x 1.8m)	10' x 10' (3.0m x 3.0m)
W-4024 SS	4,000	8' - 10' (2.4m - 3.4m)	10' x 10' (3.0m x 3.0m)	8' x 8' (2.4m x 2.4m)	12' x 12' (3.7m x 3.7m)

DUAL ELEMENT AREAS COVERED (FEET)

MODEL	WATTS	MOUNTING HEIGHT	AVERAGE	COLD	PROTECTED
WD-3024 SS	3,000	7' - 8' (2.1m x 2.7m)	7' x 7' (2.1m x 2.1m)	5' x 5' (1.5m x 1.5m)	9' x 9' (2.7m x 2.7m)
WD-4024 SS	4,000	8' - 10' (2.4m - 3.7m)	8' x 10' (2.4m x 3.0m)	6' x 8' (1.8m x 2.4m)	10' x 12' (3.0m x 3.7m)
WD-5024 SS	5,000	8' - 10' (2.4m - 3.7m)	9' x 10' (2.7m x 3.0m)	7' x 8' (2.1m x 2.4m)	11' x 12' (3.4m x 3.7m)
WD-6024 SS	6,000	8' - 12' (3.0m - 4.3m)	11' x 11' (3.4m x 3.4m)	10' x 10' (3.0m x 3.0m)	12' x 12' (3.7m x 3.7m)

NOTE: Mounting height should not be less than 6' (1.8m) if the heater is labeled as UL Listed and 8' (2.4m) if the heater is labeled as CUL Listed. Indoor or well-protected environments will generally exceed average. Heaters can provide less than average coverage in extremely cold/windy conditions.

Ledpax Technology  
 Indoor and Outdoor 100 ft. Black Warm White LED Plug-in  
 String Light, 100-Light Bulbs Included  
 OR EQUAL



Dimension:

Product Depth (in.)	1 in	Product Height (in.)	1 in
Product Length (in.)	100 ft	Product Width (in.)	1 in

Details

Actual Color Temperature (K)	2700	Bulb Color	Clear
Color Rendering Index (CRI)	80	Color Temperature	Warm White
Compatible Bulb Type	Integrated LED	Electrical Features	Weather Resistant
Exterior Lighting Product Type	Rope and String Lights	Fixture Color/Finish	Black
Hub Required	No hub connection available	Indoor/Outdoor	Indoor/Outdoor
Light Bulb Type Included	Integrated LED	Lumens	40
Number of Bulbs	100	Outdoor Lighting Features	Water Resistant,Weather Resistant
Power Options	Plug-in	Power Type	Plug-in
Product Weight (lb.)	5.75 lb	Remote Access	No Remote Access
Requires Hub?	Requires Smart Hub	Returnable	90-Day
Space Between Bulbs (in.)	12	Voltage (v)	120v
Watt Equivalence	1000	Works With	No additional compatibility

Warranty / Certifications

Manufacturer Warranty	30 Day Warranty for broken and damaged items in transit
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Proposed Canopy / Awning for:  
 Cortland's Garage Tavern & Grill  
 1 N Vail Ave,  
 Arlington Heights, IL 60005

Drawing

LIGHT AND  
 HEATER SPECS

Sheet

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