

GREGORY AND ADAMS, P.C.

ATTORNEYS AT LAW
190 OLD RIDGEFIELD ROAD
WILTON, CT 06897
(203) 762-9000
FAX: (203) 834-1628

JULIAN A. GREGORY
(1912 - 2002)

THOMAS T. ADAMS
(1929 - 2015)

ESTABLISHED 1964

NEW YORK OFFICE:
399 KNOLLWOOD ROAD - SUITE 201
WHITE PLAINS, NY 10603
(914) 848-5000

PLEASE REPLY TO SENDER:
DANIEL L. CONANT
DIRECT DIAL: 203-571-6317
dconant@gregoryandadams.com

PAUL H. BURNHAM
DANIEL L. CONANT*
TREVOR CONLOW§
SUSAN L. GOLDMAN
J. VANCE HANCOCK
J. CASEY HEALY
MICHAEL LAMAGNA*
DERREL M. MASON*
MATTHEW C. MASON*
JAMES D'ALTON MURPHY*
KATHLEEN L. ROYLE *
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ROGER R. VALKENBURGH *

* ALSO ADMITTED IN NEW YORK
⊗ ALSO ADMITTED IN VERMONT
§ ADMITTED IN NY & NJ ONLY

WWW.GREGORYANDADAMS.COM

May 18, 2023

Via Email and Hand Delivery

Architectural Review Board

Town Hall Annex

238 Danbury Road

Wilton, CT 06897

Attn: Mr. Michael E. Wrinn – Director of Planning and Land Use Management

Re: ASML US, LLC – Application to Architectural Review Board; Alternative Signage Program
Premises: 77 Danbury Road, Wilton, Connecticut

Dear Mr. Chairman and Members of the Board,

As attorneys for ASML US, LLC (“ASML”), we hereby submit materials in support of its proposed Alternative Signage Program to allow for the installation of a parking guidance system, which includes displays and signs along the new driveway and within the interior of the existing garage, on the Premises. We enclose one copy of each of the following in support of ASML’s request for a review of and favorable report on the proposed parking guidance system:

1. Authorization letter signed by ASML, permitting Gregory and Adams to act as its Agent in connection with all land use matters.
2. Architectural Review Board Application with Project Narrative Attached.
3. Zoning Location Survey (ZLS.1), prepared by Arthur H. Howland Associates and dated November 11, 2021.
4. Existing Conditions Plan (EX-01), prepared by Tighe & Bond, Inc. (“T&B”), dated October 21, 2022.
5. Electronic Parking Guidance Signage Plan (C-801) prepared by T&B dated June 8, 2022.
6. Electronic Parking Guidance Signage Plan Enlargement (C-802) prepared by T&B dated June 8, 2022.

May 18, 2023

Page 2 of 2

7. Data Sheet for Stackable Full-Matrix Display prepared by Indect.
8. Data Sheet for Profile Sign IP65 prepared by Indect.
9. Data Sheet for UMS – Ultrasonic Mini Sensor prepared by Indect.
10. List of Project Professionals.

Respectfully submitted,
Gregory and Adams, P.C.

By 
Daniel Conant

DC/kc

Enclosures

cc: Messrs. Patrick van den Bogaard and Jason Domena – ASML US, LLC
Mr. Matthew Valera – Parking Guidance Systems, LLC
James D'Alton Murphy, Esq.

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PLEASE REPLY TO SENDER:
JAMES D'ALTON MURPHY
DIRECT DIAL: 203-571-6309
jmurphy@gregoryandadams.com

October 28, 2021

By E-Mail Only

ASML US, LLC

Attn: Mr. Jason Domena, Senior Project Leader AM CRE Facility Management

Re: ASML US, LLC- Land Use Applications
Premises: 77 Danbury Road, Wilton, Connecticut

Dear Mr. Domena:

As you know, we are in the process of preparing land use applications to various Town of Wilton and State of Connecticut and other government agencies, if applicable. These agencies require written authorization from the applicant and the property owner authorizing Gregory and Adams, P.C. to act as its agent in connection with any and all land use matters involving the subject property. Please sign a copy of this letter as applicant and owner and return it to me by email.

Very truly yours,


James D'Alton Murphy
James D'Alton Murphy

JD'AM/ko

The undersigned hereby authorizes Gregory and Adams, P.C. to act as its agent in connection with the above-referenced matters.

ASML US, LLC

By:


Jason Domena
Its: Senior Project Leader
AM CRE Facility Management
Duly Authorized

**WILTON PLANNING AND
ZONING COMMISSION****ARCHITECTURAL REVIEW BOARD/VILLAGE
DISTRICT DESIGN ADVISORY COMMITTEE APPLICATION**

ASML US, LLC			c/o Gregory and Adams, P.C. 190 Old Ridgefield Road, Wilton, CT		
APPLICANT'S NAME			ADDRESS		
ASML US, LLC			c/o Gregory and Adams, P.C. 190 Old Ridgefield Road, Wilton, CT		
OWNER'S NAME			ADDRESS		
77 Danbury Road			DE-10		
PROPERTY LOCATION			ZONING DISTRICT		
5250	1002	329	69	18	28.6425+/-
WLR	VOLUME	PAGE	TAX MAP #	LOT #	ACREAGE

THE FOLLOWING MATERIALS ARE REQUIRED:

* Please see **SPECIAL INSTRUCTIONS FOR SUBMISSION DURING COVID** at:

Application Forms / Materials | Wilton CT

* All submitted plans and documents shall bear an original signature, seal, and license number of the professional responsible for preparing each item. Maps should be folded, not rolled – 11" x 17" Plan Copies

ELECTRONIC SUBMISSION OF ALL APPLICATION MATERIALS (CONSOLIDATED INTO 1 OR 2 PDFs MAXIMUM), emailed to: michael.wrinn@wiltonct.org & daphne.white@wiltonct.org

- i. An application form;
- ii. A statement describing the proposed project (use page 2 or attach separate sheet);
- iii. The following plans, where applicable, based on the nature of the proposed project:

- ☐ 1. An A-2 survey for any proposal involving the physical enlargement of a building, structure, parking area and/or vehicle access aisle.
- ☒ 2. A site plan drawn at a scale of no greater than 1" = 60', incorporating an A-2 survey (where required), of the property sufficient to show the location of:
- a. wetlands, upland buffers, watercourse and flood zones, if any;
 - b. existing and/or proposed buildings and appurtenances thereof;
 - c. existing and/or proposed parking accommodations;
 - d. existing and/or proposed lighting
 - e. existing and proposed buffer strips and landscaping;
 - f. access and egress details for pedestrian and vehicular traffic;
 - g. existing and/or proposed signs, and
 - h. adjacent roads, curb cuts, and width of rights-of-way and travel way.
 - i. easements, regulatory setbacks, historic covenants or other historic assets.

☐ 3. Floor plans at each level showing the basic divisions of the building, all entrances, exits and loading and service areas.

☒ 4. A description of the architectural vernacular of proposed construction and its architectural relationship to other buildings within 500 feet.

☐ 5. Elevation drawings of all sides of the building, with dimensions, finish materials, fixtures, lighting, signage, landscape and colors indicated.

- ☐ n/a 6. Samples of all finish materials to be used on the exterior of the building.
- ☐ n/a 7. A roof plan showing all mechanical equipment, vents, hatches, skylights, solar arrays, wind turbines, green roofing etc., and the type and extent of screening to be provided.
- ☒ 8. A signage plan with a scaled drawing showing the design of any proposed signage, including dimensions (length, width, height), a drawing of sign design and content, colors of sign, materials for construction and illumination, together with a site plan showing location of proposed free-standing sign and/or building elevations showing location and proportions of wall signs.

THE APPLICANT understands that this application is to be considered complete only when all information and documents required by the Commission have been submitted and is responsible for the payment of all legal notices incurred.

THE UNDERSIGNED WARRANTS the truth of all statements contained herein and in all supporting documents according to the best of his or her knowledge and belief; and hereby grants visitation and inspection of the subject property as described herein.

ASML US, LLC, by its agent, Gregory and Adams:

APPLICANT'S SIGNATURE

DATE

TELEPHONE

May 18, 2023

203-571-6317

By: Daniel Conant

OWNER'S SIGNATURE

DATE

TELEPHONE

May 18, 2023

203-571-6317

By: Daniel Conant

PROJECT NARRATIVE:

Please see Gregory and Adams' letter to the Architectural Review Board dated May 18, 2023, submitted with this application, which describes the Applicant's intentions to install a parking guidance system along the new driveway and within the existing parking garage.

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May 18, 2023

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Town Hall Annex
238 Danbury Road
Wilton, CT 06897
Attn: Mr. Michael E. Wrinn – Director of Planning and Land Use Management

Re: ASML US, LLC – Alternative Signage Program; Project Narrative
Premises: 77 Danbury Road, Wilton, Connecticut

Dear Mr. Chairman and Members of the Board,

As you may recall, you previously endorsed ASML's driveway project in May of 2022. In furtherance of ASML's efforts to improve the safety of the Premises, the Applicant seeks to install signs and displays as part of their proposed parking guidance system (System). The purpose of the proposed system is to direct drivers to the nearest available parking space, or, indicate that the parking areas are full, therefore reducing vehicular traffic in the parking garage and northwestern surface lot.

The sign and display components of the proposed System are as follows:

1. "Electronic Entry Monument Sign" – A freestanding monument sign, facing south and prior to the new driveway on the northeastern portion of the property, with an integrated Light Emitting Diode (LED) panel. The LED panel will display the number of available parking spaces in the parking garage and northwestern surface lot or inform drivers that the parking areas are full. The sign will also include static lettering that instructs drivers to turn around at the next left if the parking areas are full. The sign will be supported by 56" steel tubes finished in black, and the total area of the sign and integrated LED panel is 50" wide by 30" tall. Details of this sign are found on the enclosed Tighe and Bond Drawings, sheets C-801 and C-802.

2. "Electronic Matrix Sign" – A freestanding monument sign, facing northeast and located prior to the new driveway's entry to the third floor of the parking garage, consisting of a 40" by 60" programmable display. The display will indicate the number of available spaces on a floor-by-floor basis and state "Parking Spaces Open" in white letters on a blue background. The sign will be mounted on black, 3 1/8" wide steel tubes that measure 56" tall. The steel tubes will also serve as a frame for the 40" x 60" sign, bringing the total width of the sign to 43 1/8". A data sheet from Indect, the vendor of the Stackable Full-Matrix Display, has been enclosed for your reference.

3. "Ceiling Mounted Electronic Wayfinding Signage" – A ceiling-mounted display, consisting of a variety of LED modules wrapped in a black aluminum frame, facing north and located inside of the entry to the garage from the new driveway. The purpose of this sign is to assist drivers in their decision to drive up or down upon entry to the garage. The Profile Sign also indicates the number and location of available accessible parking spaces. A data sheet from Indect, the vendor of the Profile Sign IP65, has been enclosed for your reference.

Details of the aforementioned, including their proposed locations, are found on the enclosed Tighe and Bond drawings (C-801, C-802). In addition to the three signs, the proposed System requires the installation of Ultrasonic Mini Sensors (Sensors) above every parking space within the parking garage. The Sensors are connected to the System and they allow the signs to reflect the current number of available parking spaces. The proposed Sensors will contain an integrated LED that will either be Red or Green, indicating whether the space is occupied or not, and the Sensors and their LEDs will face the interior of the garage. Each Sensor is approximately 4.45" wide and 5.75" long and will be connected to the ceiling of the parking garage. A data sheet from Indect, the vendor of the Sensor, has been enclosed for your reference.

Thank you for your time and consideration. We look forward to presenting the application at the meeting.

Respectfully submitted,
Gregory and Adams, P.C.

By: 
Daniel Conant

DC/kc
Enclosures

Last Saved: 10/21/2022
Plotted On: Mar 20, 2023 3:39pm By: SansoneM
Tighe & Bond: 1:VA0969 ASML 020 Campus Master Plan Drawings AutoCAD Sheet A0969-020-C-000-REND-EXCN.dwg



ASML

Campus
Master Plan

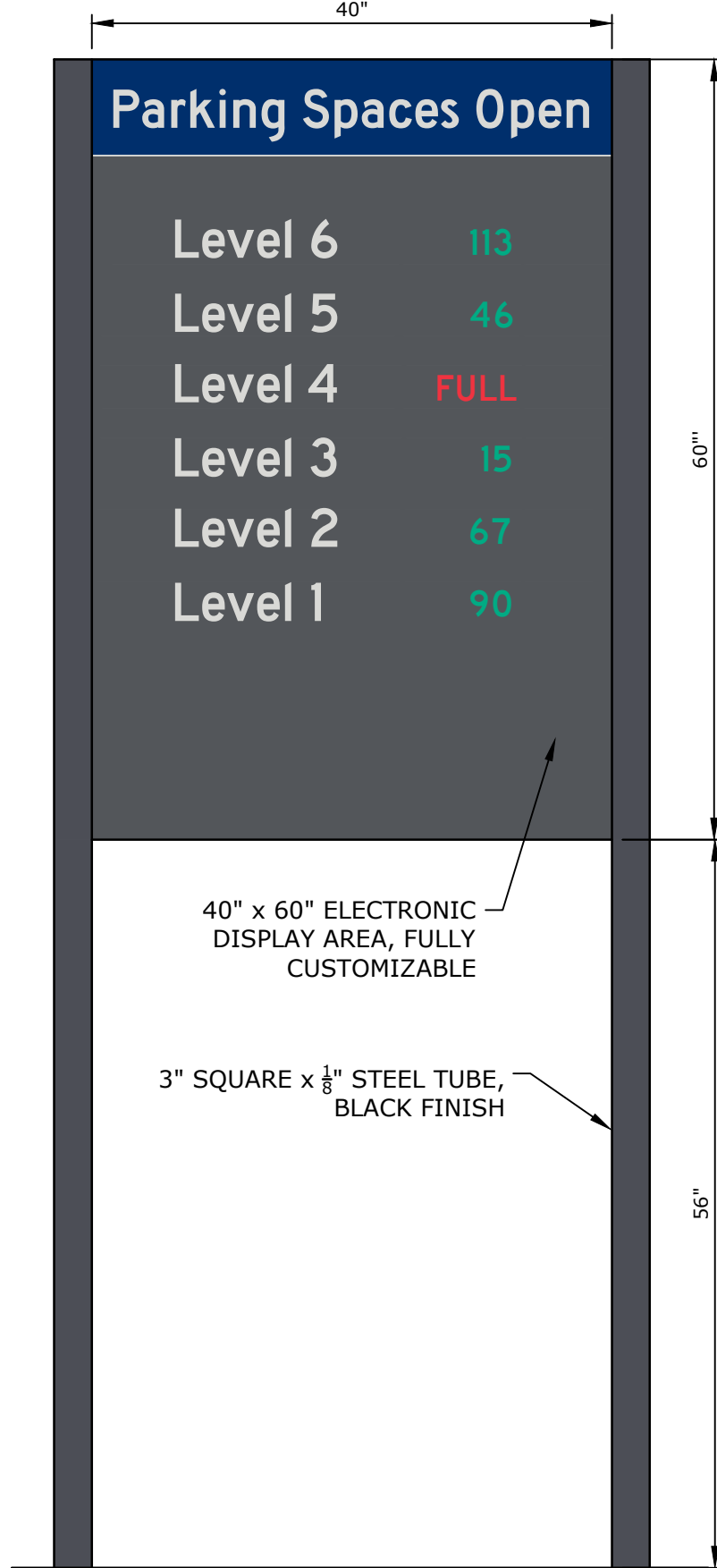
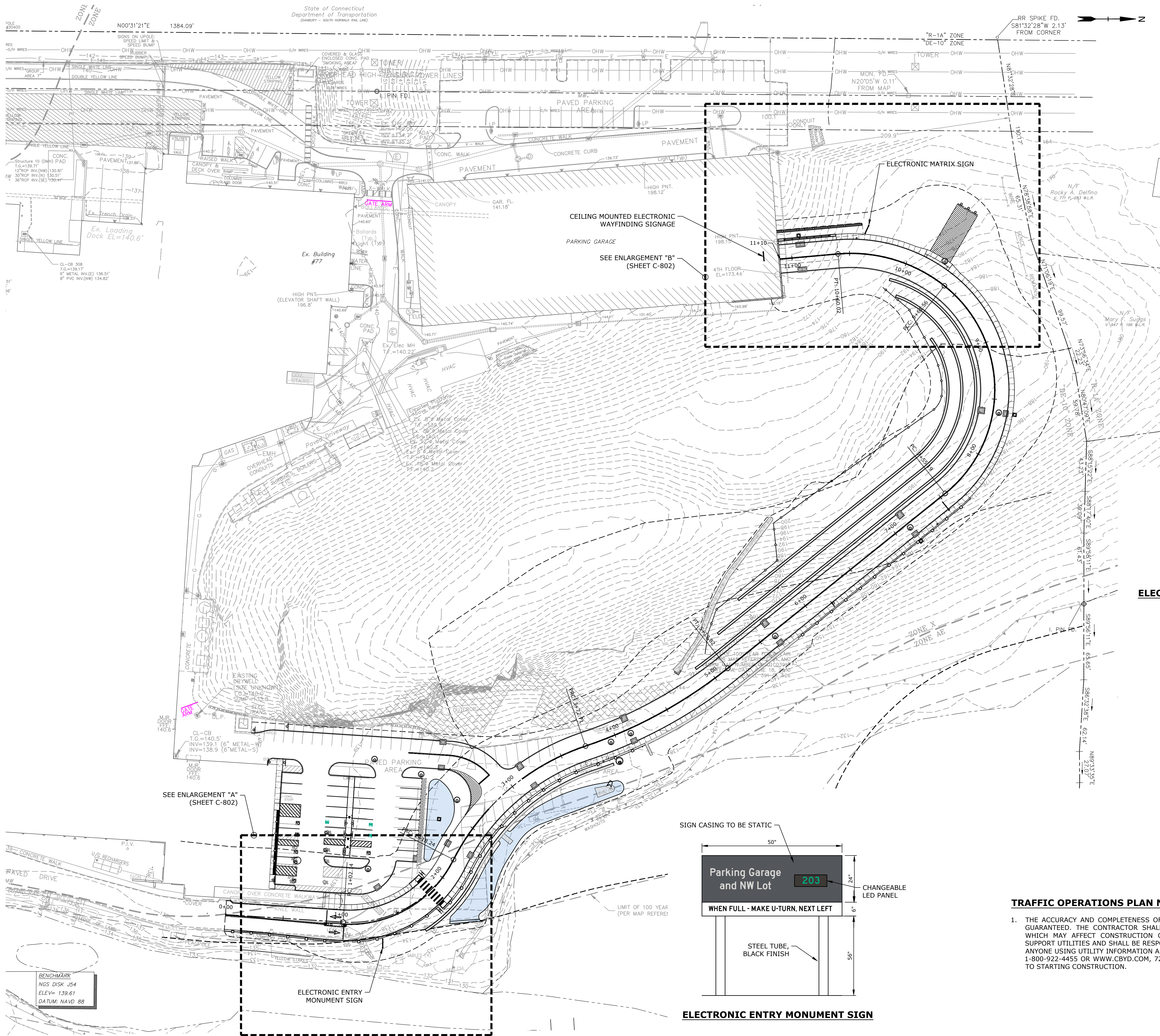
77 Danbury Road
Wilton, Connecticut

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DATE:	10/21/2022	
FILE:	A0969-020-C-000-REND-EXCN.dwg	
DRAWN BY:	MDS	
DESIGNED/CHECKED BY:	JAC	
APPROVED BY:	JWB	

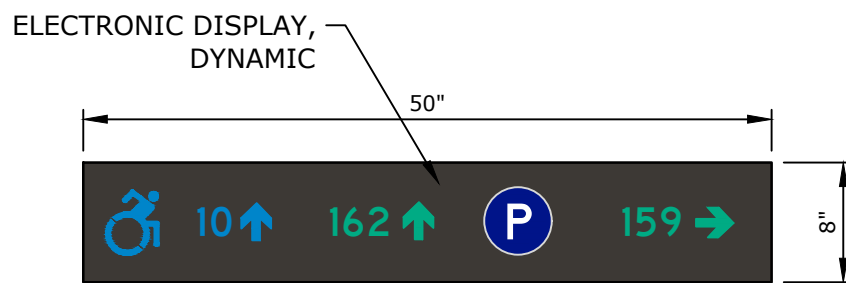
EXISTING
CONDITIONS

SCALE: 1" = 50'

Last Saved: 5/16/2023 1:49pm By: SunsonenH
Plotted On: May 16, 2023 1:49pm By: SunsonenH
Tighe & Bond: 1:VA0969 ASML 015 - Driveway Improvements Drawings Figures AutoCAD Sheet: A0969-015-C-801-PARKING GUIDANCE.dwg



ELECTRONIC MATRIX SIGN



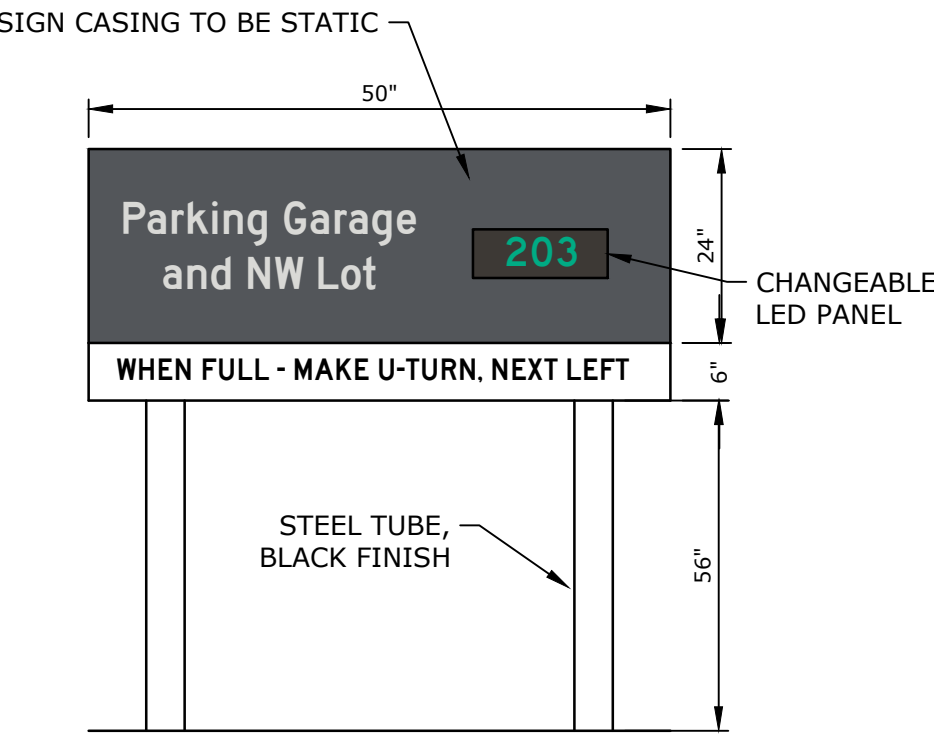
ELECTRONIC CEILING MOUNTED WAYFINDING SIGN

TRAFFIC OPERATION PLAN LEGEND

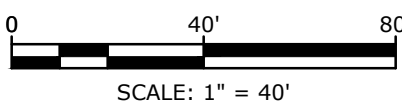
- - - - - 100 FT UPLAND REVIEW AREA
- - - - - PROPERTY LINE
- - - - - EASEMENT LINE
- ===== PROPOSED CURB
- ===== PROPOSED RETAINING WALL
- ===== PROPOSED BUILDING
- ===== PROPOSED GUIDE RAIL
- PROPOSED SIGN
- PROPOSED ACCESSIBLE SYMBOL
- ===== DOUBLE YELLOW CENTERLINE
- ===== GATE CONTROL
- ||||| PAINTED CROSSWALK

TRAFFIC OPERATIONS PLAN NOTES

1. THE ACCURACY AND COMPLETENESS OF SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS IS NOT GUARANTEED. THE CONTRACTOR SHALL DETERMINE THE LOCATIONS AND ELEVATIONS OF ALL UTILITIES WHICH MAY AFFECT CONSTRUCTION OPERATIONS. THE CONTRACTOR MUST ADEQUATELY PROTECT AND SUPPORT UTILITIES AND SHALL BE RESPONSIBLE FOR ALL DAMAGE INCURRED AT NO EXPENSE TO THE OWNER. ANYONE USING UTILITY INFORMATION AND DATA PROVIDED HEREIN SHALL CONTACT "CALL BEFORE YOU DIG", 1-800-922-4455 OR WWW.CBYD.COM, 72 HOURS IN ADVANCE TO VERIFY THE LOCATION OF UTILITIES PRIOR TO STARTING CONSTRUCTION.



ELECTRONIC ENTRY MONUMENT SIGN



ZONING PERMIT NOTICE

- Pursuant to Section 8-3.(l) of the Connecticut General Statutes, all work in connection with this Special Permit shall be completed within five years after the 3 approval of the plan. Said five-year period shall expire on September 6, 2027.
- "For conditions of approval for Special Permit SP#492, see Resolution #0822- 492SP

SITE/CIVIL GMP
PRICING SET

ASML

Campus Traffic
Flow Safety
Improvements

77 Danbury Road
Wilton, Connecticut

MARK	DATE	DESCRIPTION
PROJECT NO:	A0969-015	
DATE:	08/08/2022	
FILE:	A0969-015-C-801-PARKINGGUIDANCE.dwg	
DRAWN BY:	MDS	
DESIGNED/CHECKED BY:	JAC	
APPROVED BY:	JWB	

ELECTRONIC
PARKING GUIDANCE
SIGNAGE PLAN

SCALE: 1" = 40'

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a. Pursuant to Section 8-3.(l) of the Connecticut General Statutes, all work in connection with this Special Permit shall be completed within five years after the 3 approval of the plan. Said five-year period shall expire on September 6, 2027."

b. "For conditions of approval for Special Permit SP#492, see Resolution #0822- 492SP

**SITE/CIVIL GMP
PRICING SET**

ASML

**Campus Traffic
Flow Safety
Improvements**

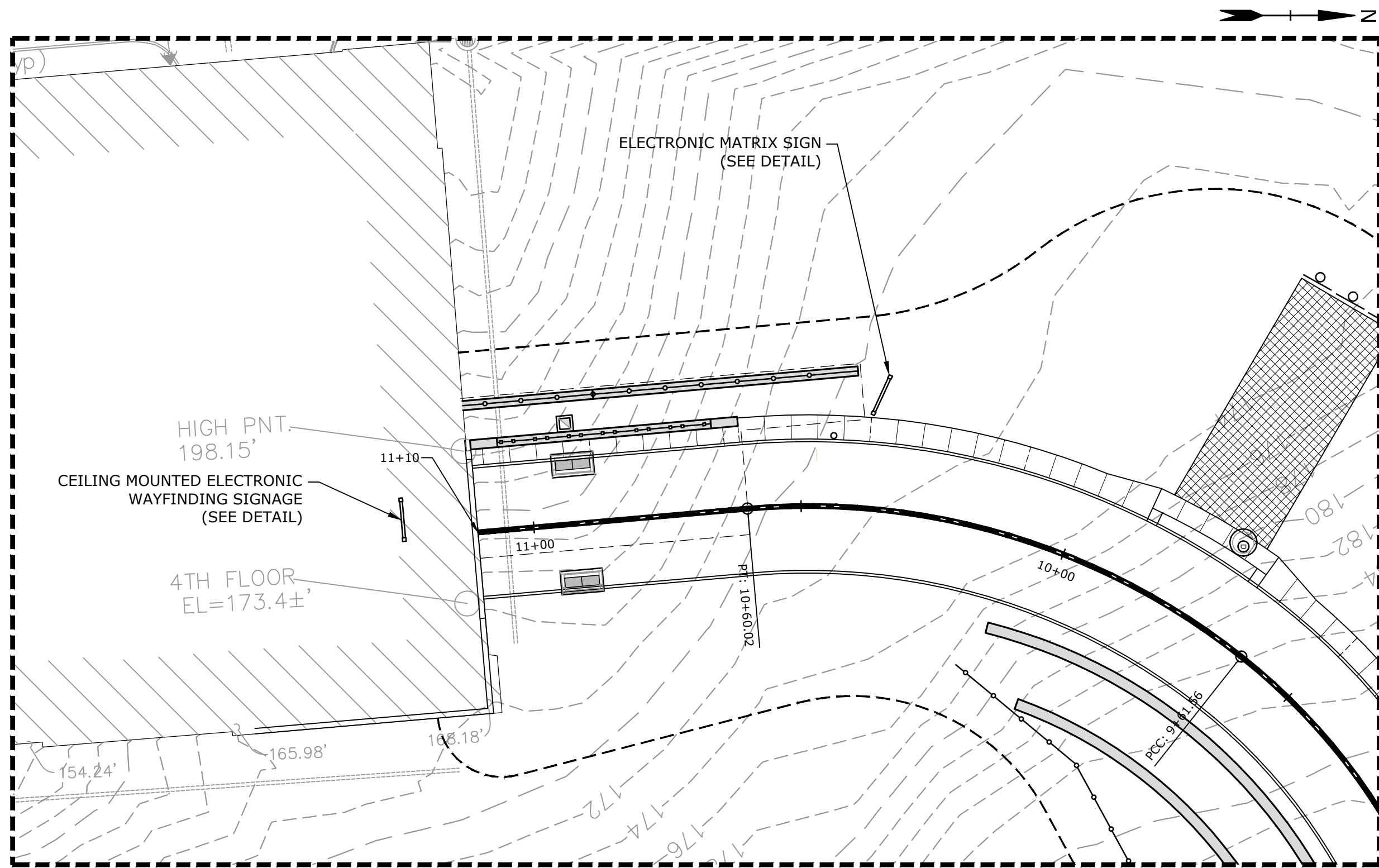
77 Danbury Road
Wilton, Connecticut

MARK	DATE	DESCRIPTION
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DATE:	08/08/2022	
FILE:	A0969-015-C-801-PARKINGGUIDANCE.dwg	
DRAWN BY:	MDS	
DESIGNED/CHECKED BY:	JAC	
APPROVED BY:	JWB	

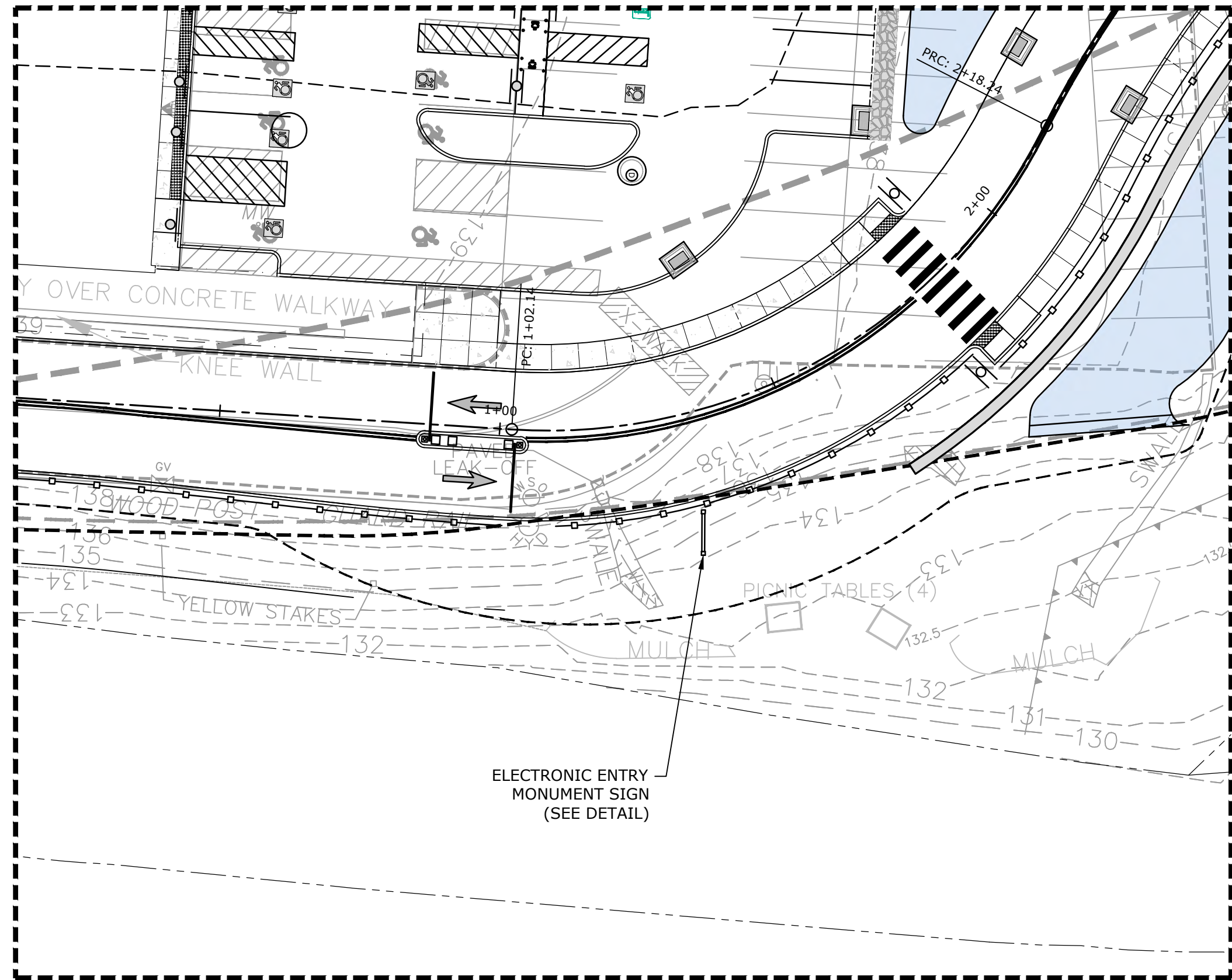
**ELECTRONIC PARKING
GUIDANCE SIGNAGE PLAN
ENLARGEMENT**

SCALE: 1" = 40'

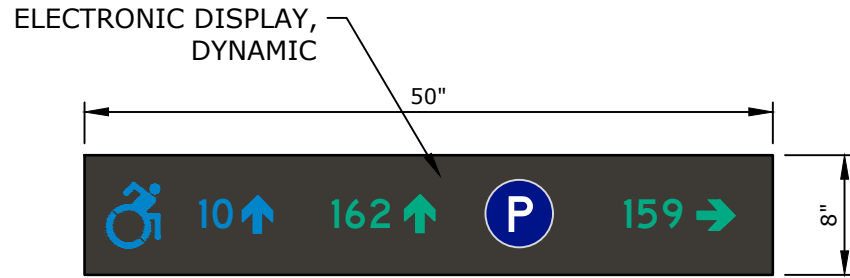
C-802



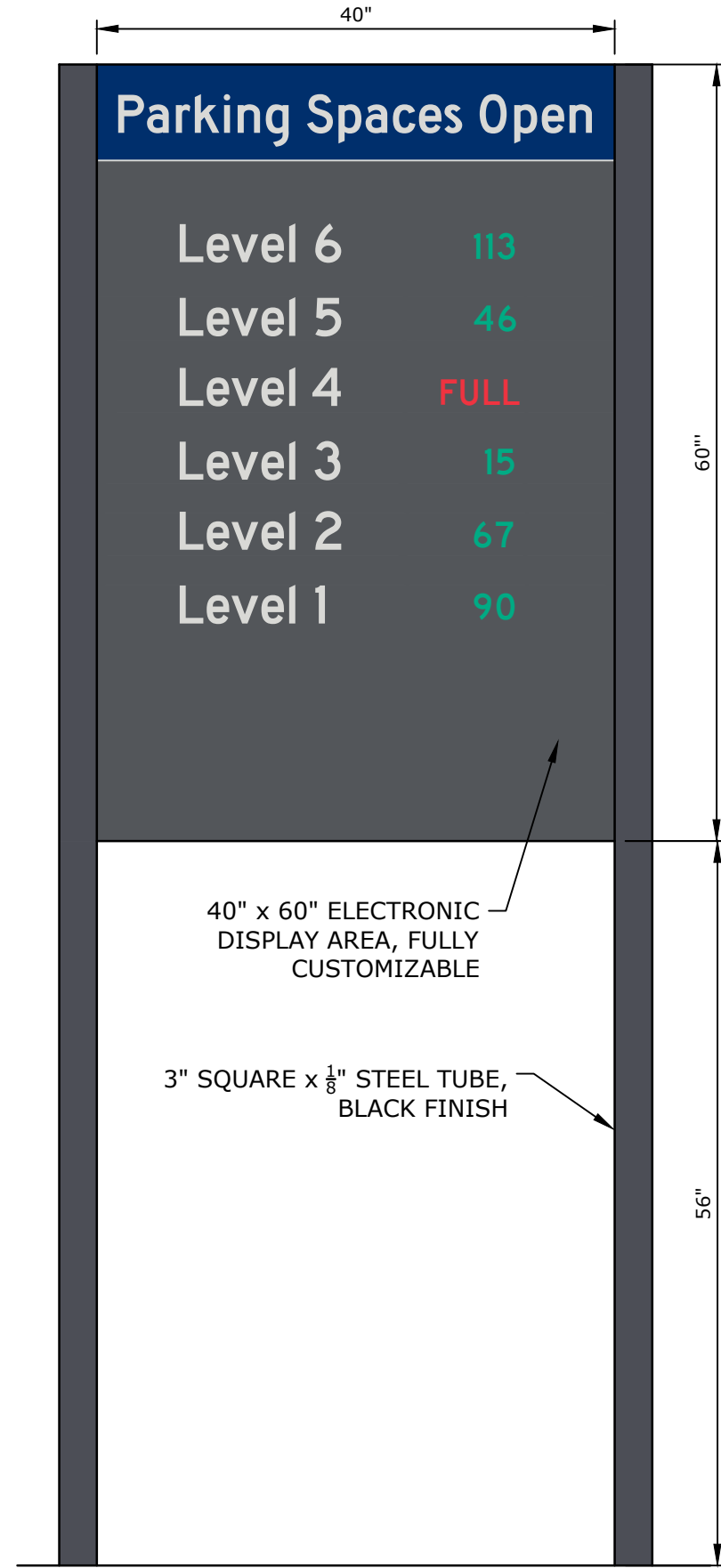
ENLARGEMENT "B"
SCALE: 1" = 20'



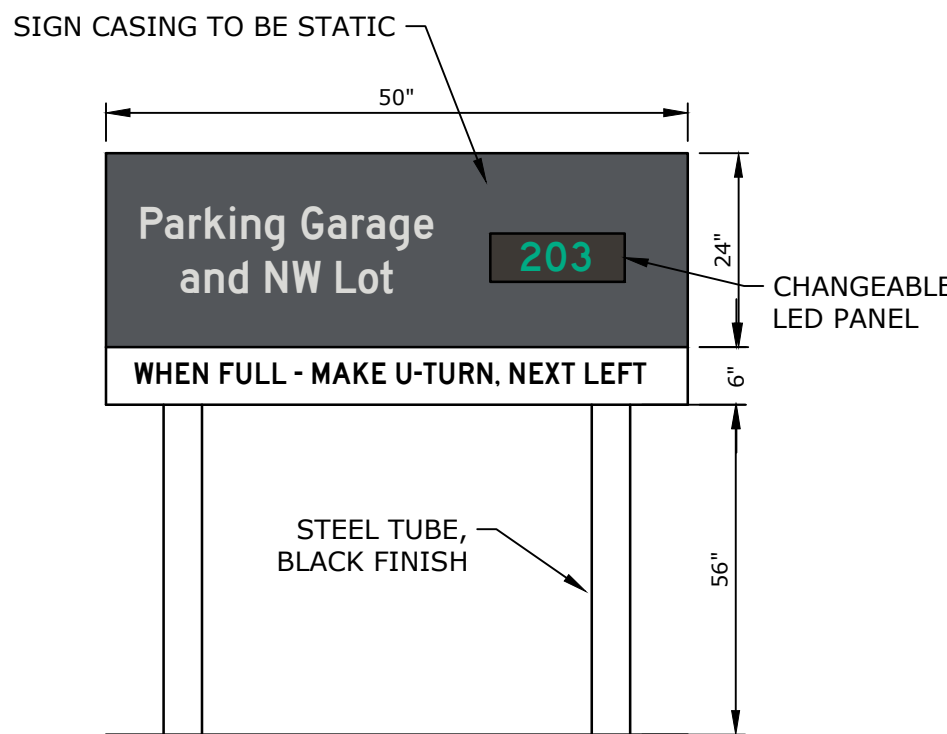
ENLARGEMENT "A"
SCALE: 1" = 20'



ELECTRONIC CEILING MOUNTED WAYFINDING SIGN



ELECTRONIC MATRIX SIGN



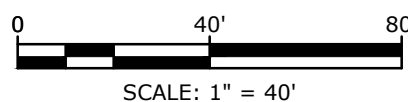
ELECTRONIC ENTRY MONUMENT SIGN

TRAFFIC OPERATION PLAN LEGEND

- 100 FT UPLAND REVIEW AREA
- PROPERTY LINE
- EASEMENT LINE
- PROPOSED CURB
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Stackable Full-Matrix Display



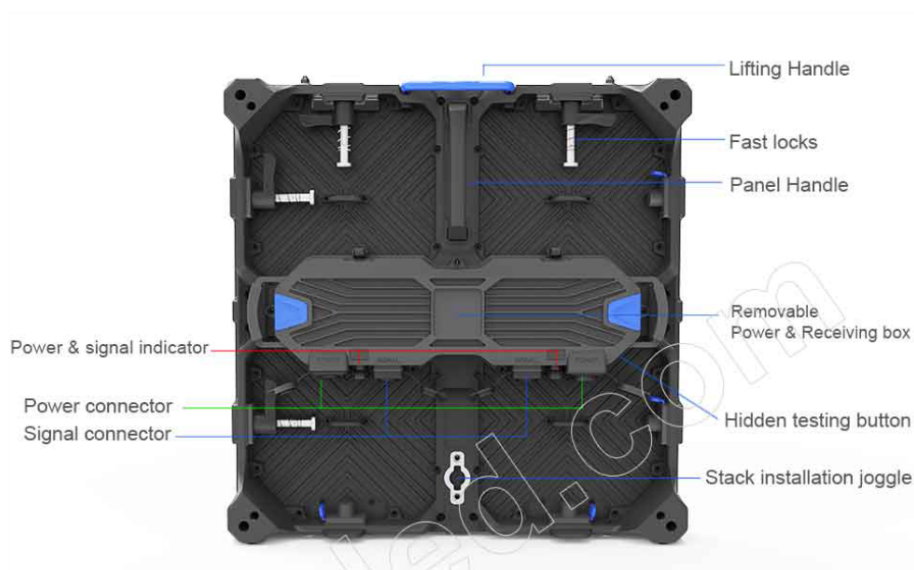
Picture: Full-matrix LED display,
pitch 3.91, 4 by 3 panels
(actual item may differ from photo)

Client to provide 120V power and data to sign locations, per provided PGS drawings.
Material of wall and wall mounting bracket to be provided to PGS for sign frame design. PGS MT

Description

INDECT provides stackable full-matrix RGB LED displays in pitch 3.91 and pitch 4.81 for manifold purposes and for indoor or outdoor use.

The self-supporting panels can be stacked easily by one person to build the entire sign. At the back side there is a fully sealed and watertight connection box which holds the receiving card per panel and the power and Ethernet jacks for power and data connection.



Advantages

Ease of installation and commissioning	<ul style="list-style-type: none"> • Easy stacking of panels without tools • Easy power and data connection with prefab cables
Easy maintenance	<ul style="list-style-type: none"> • Damaged modules can be easily replaced due to the stacking
Flexible contents	<ul style="list-style-type: none"> • Space availability information • Text • Pictures and guidance symbols, such as arrows, wheelchair symbols etc. • Advertising • Messages • Building guidance • MPG videos
Visibility	<ul style="list-style-type: none"> • Panels with integrated sun shade • Brightness adjustable

INDECT Electronics & Distribution GmbH

Ricoweg 1
 2351 Wiener Neudorf
 AUSTRIA

T: +43/2236/32 01 99
 F: +43/2236/32 01 99-99
office@indect.com
www.indect.com



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Technical Data / Functional Overview

The matrix panels are connected to an external sending box, connected to a USB and a DVI or HDMI port (HDMI-DVI adapter required) on the computer.

For more information see the respective connection layouts.

Pitch:	3.91	5.95
Brightness:	4500 nits	4500 nits
Dimensions (W x H x D)	<ul style="list-style-type: none"> 500 x 500 x 78 mm 19.69 x 19.69 x 3.07 in 	<ul style="list-style-type: none"> 500 x 500 x 78 mm 19.69 x 19.69 x 3.07 in
Weight per panel	<ul style="list-style-type: none"> 7.8 kg 17.19 lbs 	<ul style="list-style-type: none"> 7.7 kg 16.97 lbs
Resolution per panel	128 x 128 px	104 x 104 px
Maximum size per sending card port:	<ul style="list-style-type: none"> If 2 ports are used: 2048 x 320 px 9.5 x 1.5 m 31.17 x 4.92 ft If one port is used: 650,000 px in total 	<ul style="list-style-type: none"> If 2 ports are used: 2048 x 320 px 12 x 1.5 m 31.17 x 4.92 ft If one port is used: 650,000 px in total
Voltage supply:	110-220 VAC / 50-60 Hz	110-220 VAC / 50-60 Hz
Power consumption:	<ul style="list-style-type: none"> Average: 200 W/sqm Maximum: 640 W/sqm 	<ul style="list-style-type: none"> Average: 200 W/sqm Maximum: 680 W/sqm
Protection rate:	<ul style="list-style-type: none"> Front: IP65 Back: IP65 	<ul style="list-style-type: none"> Front: IP65 Back: IP65
Operating temperature:	<ul style="list-style-type: none"> -20 to 60 °C -4 to 140 °F 	<ul style="list-style-type: none"> -20 to 60 °C -4 to 140 °F
Operating humidity (RH):	10 to 95%	10 to 95%
Sign rack:	Self-supporting construction	Self-supporting construction

Contents

Fonts for text:	Standard Windows fonts
Font size:	Unlimited
Text contents:	<ul style="list-style-type: none"> Static text Running text Spacecount placeholders
Running Text:	<ul style="list-style-type: none"> Right to left Left to right
Characters:	Unicode
Alternating contents:	Yes
Graphics format:	<ul style="list-style-type: none"> BMP JPG PNG GIF

Video format:

- MPG

Brightness control:

- Manually for all connected displays
- Automatically by function card installed in one sign

Communication and Connections

Communication: Nova protocol (over Ethernet / fiber cable)¹

Connection: 2 options:

- Separate mini PC for sign control, connected to, sending box, connection to INDECT server by TCP/IP

Operation:

BrightSign Matrix displays set up on the coordinate system of an extended screen, mirror the contents placed there.

Separate BrightSign configuration software to create scenes with different contents (graphics, text, space availability placeholders, videos).

Scenes triggered according to space availability/manually/in loop.

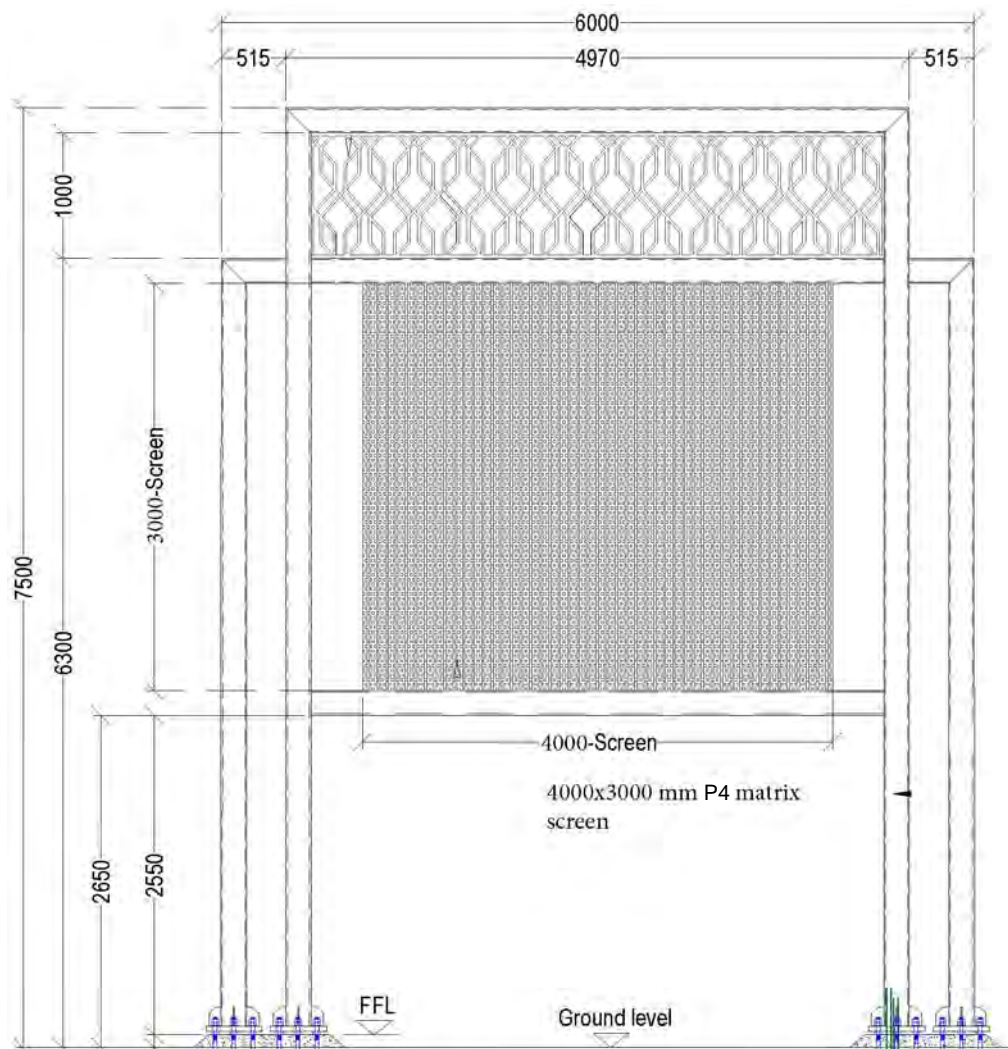
Control: Via INDECT system for space counting

1. **Note:** no active or passive network components (such as switches, routers, range extenders) must be used. With regard to fiber converters, only such that understand the LINSN protocol must be used.

Applications

The stackable full matrix displays are also perfectly suitable for gantry constructions, since they can be easily stacked to combine to huge surfaces.

The example below consists of a 5 m wide gantry equipped with 8 horizontal and 6 vertical rows of P3.91 stackable matrix panels, resulting in a total LED matrix surface of 4,000 x 3,000 mm, equaling 157.4 x 118.1 inch.



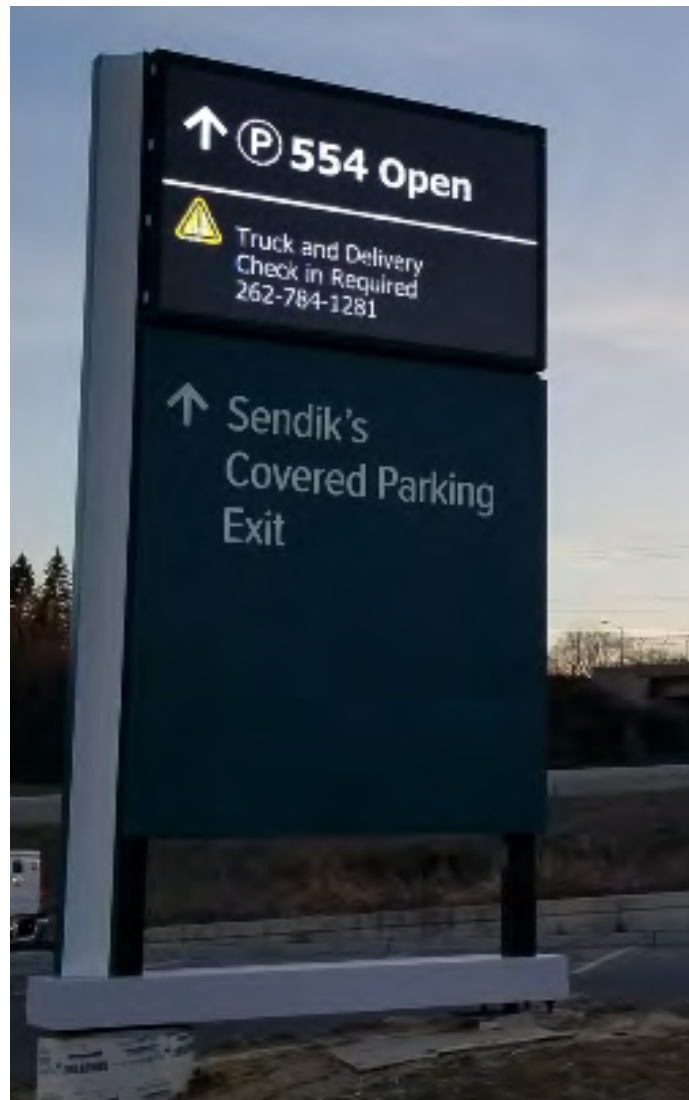
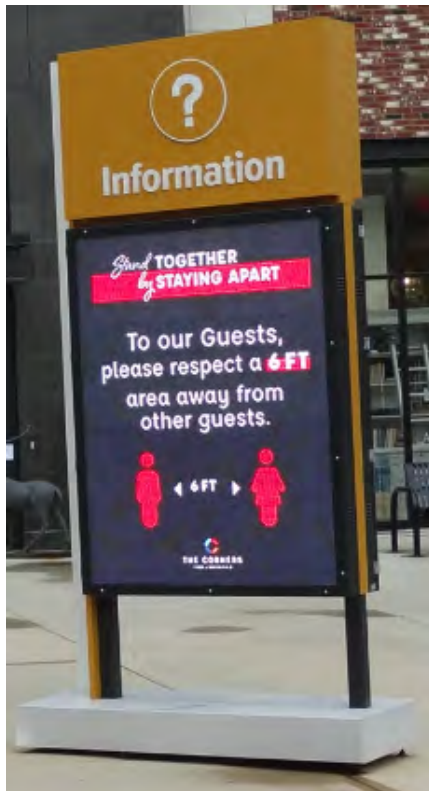
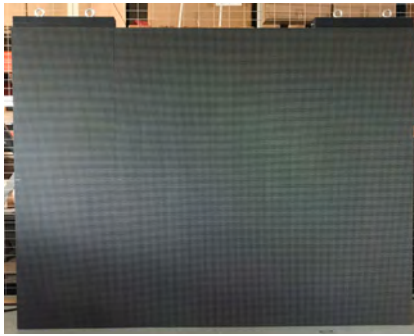
At the back side of the sign the matrix panels can be covered with back panels to permit air circulation there.

For maintenance, access from the front and the back side must be provided. We recommend to use scissor lifts for this work. Module replacement is carried out by removing the individual panels top-down until the module to be replaced is reached.

At the foot of the gantry a connection box provides connections for power and data.

Further discussion on mounting style and location is needed. PGS MT

Pictures



Profile Sign IP65

Picture: Sample sign
 (actual item may differ from photo)



Location of signs
 on PGS drawings

Description

INDECT signs make parking guidance an easy task in multistorey car parks and open air parking. Our new profile sign concept is based on a flat and sturdy IP65 sign profile that can be equipped with manifold modules.

For **customer-specific signs**, INDECT provides a great variety of LED modules (arrows, digits, symbols, LED matrix etc.) that can be combined with backlit plexiglass text panels and installed in the high-quality aluminium frame profile of the sign to cope with any possible guidance task, ranging from main entry, level, aisle signs to special information displays. For a list of INDECT LED modules to be installed in a sign for customer-specific preferences, see below.

Advantages

Quality	<ul style="list-style-type: none"> • Flat and sturdy sign rack - only 80 mm / 3.15" deep and up to 6 m / 19.7' long • Front protected by transparent plexi cover • Backlight through SMD LED panels • Optimal visibility through backlight and transparent text panel • Easy maintenance • IP65 protection (dust and water) • Optional sun roof
Flexibility in design	<ul style="list-style-type: none"> • Great variety of LED modules and LED digits to be combined • Standard layouts or according to customer preferences • Double-sided signs through back-to-back installation (160 mm / 6.3" deep) • Rack profile colour and backlit text panel colour according to customer preferences
Easy installation	<ul style="list-style-type: none"> • Installation brackets for ceiling or wall installation

Pictures



For more pictures please visit www.flickr.com/photos/Indect.



Suggested Internal Sign Sample

D01



Sign Type:	1_Profile Sign IP65, 241x80 mm (HxD)
Quantity:	1
General comment:	Client to approve "P", foil color and casing color. LED Digits are solid green and ADA Digs are solid blue with red X
Comment relevant for mounting:	
Comment relevant for production:	Frame Colour: Deep Black (RAL-9005); Foil Colour: 5745T Electric Blue Translucent
Dimensions (+/- 30 mm due to production):	1050x240mm

INDECT Electronics & Distribution GmbH

Rennweg 83
2345 Brunn am Gebirge
AUSTRIA

T: +43/2236/32 01 99
F: +43/2236/32 01 99-99
office@indect.com
www.indect.com



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Technical Data: Profile Sign

Dimensions

H x D:	240 x 80 mm (9.49 x 3.15 in)
W:	max. 6 m (20 ft)

Technical Data

Rack material:	Extruded aluminium profile
Rack colour:	<ul style="list-style-type: none"> Aluminium anodised or RAL powder coating according to customer preferences
Rack openings:	Left and right
Text panel / Front panel:	Transparent acrylic glass 3 mm (0.12 in) (temperature resistant up to 80 °C / 176 °F)
Text foil (applied on text panel)s:	Colour and layout (text and symbols) according to customer preferences
Ingress Protection:	IP65
Ambient conditions:	-25 to 70 °C (-13 to 158 °F) 10 to 90% RH (non-condensing)
Storage temperature:	-40 to 70 °C (-40 to 158 °F)
Input power of LED backlight:	<ul style="list-style-type: none"> 24 VDC from INDECT bus, or sign-integrated 24 VDC power supply
Power consumption of backlight lamps:	0.1 A to 1 A depending on the dimensions and the required number of LED panels
Input power of LED modules:	24 VDC from INDECT bus
Power consumption of LED modules:	Depending on installed LED modules, see respective data sheets

Installation

- Ceiling mounted: direct or suspended via threaded rods (M8), chains or profiles
- Wall mounted: via profiles (optional profiles available)

Cabling

- Recommended cable for power supply of backlight: NYM-J 3x1.5 mm / AWG16
Note: Comply with local standards and requirements!
- Recommended cables for connection of LED modules: see data sheet LESY2.0, LEDI2.0, MAMO2.0, TEMO2.0 and DIMO2.0.

Note: Other cable types can be tested for suitability by INDECT upon request.

Power and data connects directly to the busline



UMS - Ultrasonic Mini Sensor

Article number: 200114

Picture: Hidden cable installation
(actual item may differ from photo)

Sample

Contents

- UMS Sensor 1
- UMS Installation System 4
- Space Indicator LED 7
- Commercial Data 8

Description

INDECT's UMS is a ceiling-mounted ultrasonic sensor used for precise vehicle detection in indoor car parks. The UMS is part of INDECT's Space Administration System ISA.

The UMS is available with integrated RGB space indicator LED (SIⁱⁿ)

The UMS is CE and EMC certified and has been developed and produced in compliance with ISO 9001.

Advantages

Save installation costs	<ul style="list-style-type: none"> • Fast installation through mounting plate and secure clamp system • Fast wire connection through push-in direct connection terminals • Cost-effective wiring with standard cable NYM-J 4x1.5 mm / AWG16 • Installation with standard installation material such as steel/aluminium/PVC conduits, C-channels, cable trays etc.
High longevity in rough car park environments	<ul style="list-style-type: none"> • Ceramic ultrasonic transducer in automotive quality • Fully encapsulated and dirt resistant ultrasonic transducer (IP65) • Gold-plated connection pins • Flame-retardant casing

Safe investment

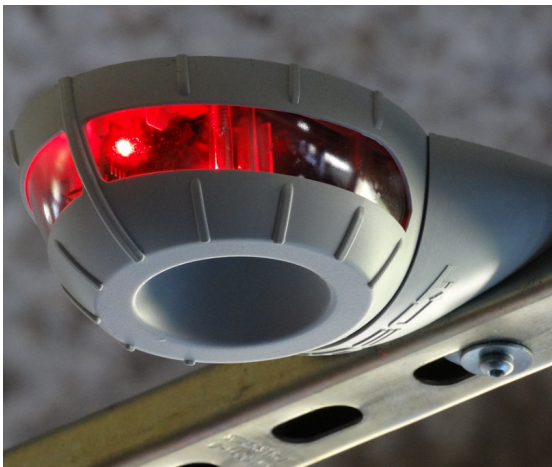
- Remotely updateable firmware to guarantee state-of-the-art detection also of future vehicle types
- Completely independent sensor operation also without central control
- Maintenance-free
- Sensor sound inaudible for humans

LED options

- Built-in RGB Space Indicator LED

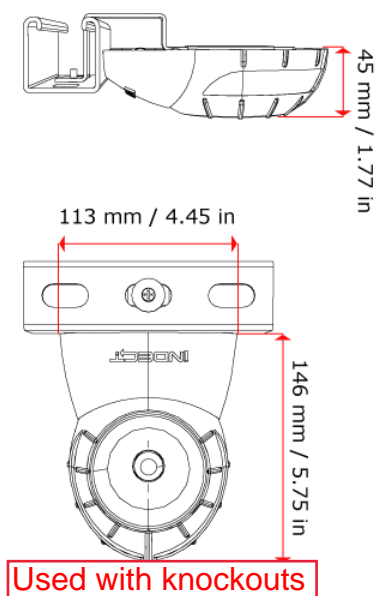
Pictures

UMS, C-channel-mounted with external space indicator LED



Technical Data: UMS

Dimensions



Ultrasonic Sensor Data

Measuring principle:	Ultrasound
Measuring distance:	500 to 4500 mm (19.7 to 177 in)
Casing material:	Plastic
Casing colour:	RAL 7035
Ingress Protection of transducer:	IP65
Supply voltage range:	15 to 24 V DC
Power consumption:	UMS: 47 mA (according to equipment and settings); connected RGB-LED: 20 mA ¹
Ambient conditions:	-25 to 60 °C (-13 to 140 °F) 10 to 90% RH (non-condensing)
Storage temperature:	-30 to 70 °C (-22 to 158 °F)

1. Depending on the preset LED colour and brightness.

Cabling

- Push-in direct connection terminals
- Recommended cable for connection: NYM-J 4x1.5 mm / AWG16
(A05VV-U 4 x 1.5 mm / AWG16)

Note: Other cable types can be tested for suitability by INDECT upon request.

UMS Installation System



Description

INDECT's UMS Installation System is a modular system consisting of INDECT's base plates and an off-the-shelf C-channel or conduit system for cost-efficient and quick installation of sensors (UMS) and space indicators (SI).

Note: The UMS must not be installed outdoors.

Advantages

Flexible installation	<ul style="list-style-type: none">• Conduits (steel, PVC, aluminium)• C-channels, cable trays, light rails• In slab
Save installation costs	<ul style="list-style-type: none">• Fast installation• Fast wire connection through push-in direct connection terminals• Simple click-in sensor mounting
Use standard installation material	<ul style="list-style-type: none">• Cost-effective wiring with standard cable NYM-J 4x1.5 mm / AWG16• Installation with standard installation material such as steel/aluminium/PVC conduits, C-channels, cable trays etc.

UMS Technical Data & Installation: Conduits

Technical Data

Tube dimensions sensor to sensor:	25 mm (0.98 in) diameter; length individually adjustable
Tube dimensions sensor to space indicator:	20 mm (0.79 in) (recommended) or 25 mm (0.98 in) diam.; length individually adjustable





Installation

The base plate is mounted on threaded rods (M8) pending from the ceiling, or directly screwed to the ceiling (with 1, 2 or 3 screws, according to the circumstances, in this case INDECT also provides spacers (SPAC) to be clicked on the base plate extension).


The conduits are fixed on the base plate with cable ties. In case of an external Space Indicator, the conduit to the Space Indicator is also fixed on the base plate with a cable tie. For more information on how to fix the conduit on the Space Indicator side, see data sheet External Space Indicator SI^{ex}. The conduits hold the cable from sensor to sensor and from the sensor to the Space Indicator.

The UMS sensors are simply clicked on the base plate.

Commercial Data: UMS

	Article number	Article name and description	Weight per unit
	200114	UMS Car detection sensor for precise vehicle detection in indoor car parks. Fully encapsulated transducer in automotive quality, IP65. Integrated or external LED space indicators must be ordered separately.	0,110 kg (0,243 lbs)
	1002492	COCH Cable cover for C-channel installation.	

Commercial Data: UMS Installation System

	Article number	Article name and description	Weight per unit
	10024056	UMS IBP Set C-Channel Comprising UMS IBP, UMS TP and 4 terminal pins. Unassembled.	0,075 kg (0,165 lbs)
	10024059	Surcharge UMS IBP C-channel Set Assembly	

Commercial Data: UMS Installation System

Article number	Article name and description	Weight per unit
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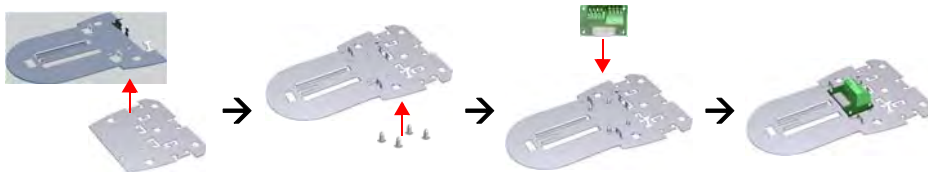
UMS Installation Kit Assembling

Conduit Installation

Example of install. C- Channel
will be used on Camperdown.

Assembling the Installation Plate

1. Place the extension plate underneath the installation base plate.
2. Put the pins through the 4 holes to join the two plates.
3. Make sure the pins click into position!
4. Click the connection terminal onto the pins..



A. Direct ceiling installation

1. Turn the plate upside down and place 3 spacers in the spacer holes.
2. Fix the installation plate to the ceiling.



B. Suspended installation

1. Turn the plate upside down and fix it with a thread rod (M10) to the ceiling. Fix the installation plate with nuts above and underneath the thread rod.

Conduits and cabling

1. Conduits are attached to the extension plate via cable ties.

Note: the conduits on the picture go to the left and right to the previous and next sensor, and to the rear to the external space indicator.



Note: If you use plastic or steel conduits instead of aluminum it is often necessary to fix those additionally with clamps to the ceiling.

2. Connect the cable from sensor to sensor and from the sensor to the external space indicator (see cable layout).

Sensor and cable cover

1. Connect your laptop to the COMO and open the setup software (see separate manual).
2. Connect sensor after sensor. The sensor slides onto the connection terminal and clicks into the two ears on the installation plate.
3. Click on the cable cover.



ASML US, LLC

Land Use Applications to Town of Wilton

Premises: 77 Danbury Road, Wilton, CT

List of Project Professionals

- | | |
|------------------------|---|
| 1. Owner and Applicant | ASML US, LLC
c/o Gregory and Adams, P.C.
190 Old Ridgefield Road
Wilton, CT 06897

Mr. Jason Domena
Jason.domena@asml.com |
| 2. Project Manager | Ms. Marilee Beebe, P.E.
WSP USA
6 Research Drive, Suite 260
Shelton, CT 06484
Marilee.Beebe@wsp.com |
| 2. Civil Engineer | Mr. Joseph A. Canas, P.E.
Tighe & Bond, Inc,
1000 Bridgeport Avenue
Shelton, CT 06484
jacanas@tighebond.com
203.712.1100 |
| 3. Parking Consultant | Mr. Matthew Valera
Parking Guidance Systems, LLC
mvalera@parkingguidancesystems.com
954.609.881 |
| 4. Attorney | Daniel L. Conant, Esq.
Gregory and Adams, P.C.
190 Old Ridgefield Road
Wilton, CT 06897
dconant@gregoryandadams.com
203.762.9000 |