HISTORIC DISTRICT COMMISSION
APPLICATION FOR WORK APPROVAL

City of Detroit - Planning & Development Department
2 Woodward Avenue, Suite 808
Detroit, Michigan 48226

APPLICATION ID
HDC2025-00542

PROPERTY INFORMATION

ADDRESS(ES): 1430 Washington Blvd, Detroit MI

HISTORIC DISTRICT: Washington Boulevard

SCOPE OF WORK: **(Check ALL that apply)**

- ☐ Windows/ Doors
- ☐ Walls/ Siding
- ☐ Painting
- ☐ Roof/Gutters/ Chimney
- ☐ Porch/Deck/Balcony
- ☐ Other
- ☐ Demolition
- ☐ Signage
- ☐ New Building
- ☐ Addition
- ☒ Site Improvements (landscape, trees, fences, patios, etc.)

BRIEF PROJECT DESCRIPTION:
This application seeks approval to install IKE Smart City's wayfinding kiosks on City sidewalks within Historic Districts. The kiosk program is designed to offer a convenient discovery and navigation platform for residents, tourists, and other visitors - at no cost to the City of Detroit. IKE kiosks help users find local businesses such as dining, entertainment, retail, and lodging, alongside vital social services including food aid, addiction recovery support, and shelter. They also provide real-time transit information and multimodal trip-planning tools covering bus, rail, bikeshare, and other transportation options. Additionally, the kiosks deliver smart city benefits like free Wi-Fi.
Locations:75 Mack Ave (Cass/Davenport District); 2 E. Congress (Financial District); 359 Park (Grand Circus Park District); 293

APPLICANT IDENTIFICATION

TYPE OF APPLICANT: Contractor

NAME: Elise Fields	**COMPANY NAME:** Downtown Detroit Partnership		
ADDRESS: 1000 Woodward Suite 380	**CITY:** Detroit	**STATE:** MI	**ZIP:** 48226
PHONE: +1 (313) 617-8406	**EMAIL:** elise.fields@downtowndetroit.org		

I AGREE TO AND AFFIRM THE FOLLOWING:

☒ I understand that the failure to upload all required documentation may result in extended review times for my project and/or a denied application.

☒ I understand that the review of this application by the Historic District Commission does not waive my responsibility to comply with any other applicable ordinances including obtaining appropriate permits (building, sign, etc.) or other department approvals prior to beginning the work.

☒ I hereby certify that the information on this application is true and correct. I certify that the proposed work is authorized by the owner of record and I have been authorized to make this application as the property owner(s) authorized agent.

Signed by: Elise Fields 8F5D0B18625B4D9...

Elise Fields — SIGNATURE

Downtown Detroit Partnership — 09/05/2025 — DATE

1000 Woodward Suite 380 — Detroit — MI — 48226

+1 (313) 617-8406 — elise.fields@downtowndetroit.org

NOTE: Based on the scope of work, additional documentation may be required. See www/detroitmi.gov/hdc **for scope-specific requirements.**

PROJECT DETAILS – TELL US ABOUT YOUR PROJECT

Instructions: Add project details using the text box in each section. If your details exceed the space provided, attach the details via the attachment icon for that section.

ePLANS PERMIT NUMBER:
(only applicable if you've already applied for permits through ePLANS) N/A

GENERAL

1. DESCRIPTION OF EXISTING CONDITION
Please tell us about the current appearance and conditions of the areas you want to change. You may use a few sentences or attach a separate prepared document on the right. (For example, "existing roof on my garage is covered in gray asphalt shingles in poor condition.")

The proposed project utilizes the existing sidewalk right-of-way. The existing sidewalk right-of-way is in good condition, with a level walking surface and adequate clearance for pedestrian traffic. The area provides sufficient space for the installation of the IKE digital kiosk while maintaining compliance with ADA accessibility standards and pedestrian flow requirements.

2. PHOTOGRAPHS
Help us understand your project. Please attach photographs of all areas where work is proposed.

3. DESCRIPTION OF PROJECT
In this box, tell us about what you want to do at the areas described above in box #1. (For example, Install new asphalt shingle roofing at garage.)

In 2020, the City of Detroit issued an RFP for a vendor to oversee and implement an Interactive Kiosk Program. The Downtown Detroit Partnership and IKE Smart City partnered for a submission with the City of Detroit selecting the DDP/IKE to lead this effort. During the same period, DDP led a community vision for design of downtown's static wayfinding. The final design brought in elements that respected the historic elements of Detroit's building landscape. These design elements have been carried over into the digital kiosk through simple vinyl graphics.
These kiosks enhance public spaces by promoting awareness of community resources and nearby businesses and events and by encouraging pedestrian activity an

4. DETAILED SCOPE OF WORK
In this box, please describe all steps necessary to complete the work described in box #3. (For example, "remove existing shingles, replace wood deck as necessary, replace wood eaves, install roof vents, replace rotted fascia boards, paint, clean worksite.")

The construction will involve coordinating utility locates and traffic control, removing and replacing concrete as needed, installing the IKE foundation and conduit per approved plans, and maintaining a safe, clean work area with thorough restoration and cleanup upon completion. DDP and IKE coordinate with the City DPW to ensure the installation meets city standards for placement, construction and restoration of sidewalks. Attached are additional specification details.

5. BROCHURES/CUT SHEETS
Please provide information on the products or materials you are proposing to install. For example, a brochure on the brand and color of the shingles proposed.

ADDITIONAL DETAILS

8. SITE IMPROVEMENTS *If site improvements are proposed, please provide any relevant site improvement plans pertaining to your project.*	

GENERAL STRUCTURAL NOTES

1. All work shall be performed in accordance with the contract documents. In case of a conflict within the contract documents, the more stringent condition shall govern, unless directed otherwise by the engineer of record. Prior to implementation, any discrepancies shall be reported to the architect for clarification.
2. In the event that certain details of construction are not indicated or noted in the drawings, details for similar conditions that are indicated or noted shall be utilized, subject to the structural engineer's approval.
3. Openings and penetrations through structural elements, and items embedded in structural elements that are not indicated in the structural drawings shall be reviewed by the structural engineer prior to fabrication, erection and/or construction.
4. The structure has been designed for the in-service loads only. The methods, procedures and sequences of construction are the responsibility of the contractor. Contractor shall take all necessary precautions to maintain and ensure the integrity of the structure at all stages of construction. Contractor shall immediately notify the structural engineer of any condition which, in his opinion, might endanger the stability of the structure or cause distress in the structure.
5. All existing conditions and all related dimensions indicated in the contract documents shall be field verified prior to fabrication, erection and/or construction. Any condition that differs from that indicated in the contract documents shall be submitted to the architect for review prior to fabrication, erection and/or construction.
6. The structure has been designed to meet or exceed serviceability requirements of section 1604.3 of the International Building Code. All non-structural components & their connections that are anchored to the structure shall be designed to allow for the movement of the structure caused by wind, snow, live, thermal, shrinkage/creep and earthquake loads. Non-structural components include items such as non-load bearing walls, MEP components, bulkheads, etc.
7. Provide special inspection in accordance with chapter 17 of the International Building Code and with project specifications.
8. Unless noted otherwise, all loads specified in these documents are nominal loads and are to be entered into the appropriate strength or allowable stress design load combinations with appropriate factors, as defined by ASCE 7, by the building component engineer in the design of their product. Gravity load shear beam reactions on plan for steel framing represent the combined service load effect from allowable stress design load combinations.

GENERAL FOUNDATION AND CONCRETE NOTES

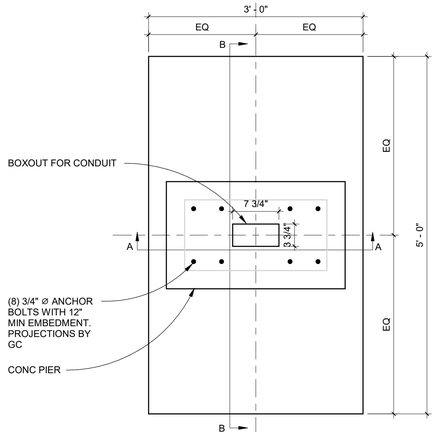
1. A registered geotechnical engineer shall be retained to confirm that the soils at the site are capable of the design soil bearing pressure. This will require a report by the geotechnical engineer. (Quantity, depth, and location of soil borings shall be at the discretion of the geotechnical engineer) The contractor shall implement all requirements and recommendations stated in this report.
2. It is strongly recommended that the geotechnical engineer of record that produces the report be retained to provide the soils testing and inspections during construction.
3. Fill material shall be thoroughly compacted prior to placement of concrete. Fill under all slabs on grade shall be as recommended in the geotechnical report. If there is no geotechnical report, a minimum of 6" of well draining granular material shall be placed under all slabs on grade (UNO elsewhere in the construction documents).
4. Coordinate finish of all foundation work, including slabs on grade, with architectural and flooring supplier's requirements.
5. Cover for reinforcing shall be in accordance with ACI-318.
6. All exposed edges of concrete piers, beams, and walls shall be chamfered 3/4" x 45 degrees. UNO
7. Coordinate placement of KIOSK anchor rods with foundation reinforcing. All column anchor rods shall be installed using templates and setting drawings. No tilted or misplaced bolts will be accepted. Notify Architect/Engineer for approval of any corrective action. Tolerances for the installation of the anchor bolts shall be in accordance with AISC "Code of Standard Practice" guidelines.
8. Anchors for embedded plates shall be as shown on the drawings. Headed studs shall conform to ASTM A108 and AWS D1.1 Grade B. Reinforcing bars to be welded to plates shall be ASTM A615 Grade 40 or ASTM A706 Grade 60.
9. Refer to "General Structural Notes" for information regarding special inspections and installation of post installed anchors.

CONCRETE NOTES

1. All concrete shall be done in accordance with ACI 117, 211, 301, 302, 315, 347 and 318 requirements, and as stated on contract documents.
2. Coordinate finish of exposed concrete with Architect.
3. Testing of concrete shall be provided for each KIOSK foundation and pier installed, and shall include but is not limited to slump, air content concrete temperature, unit weight, and compressive strength. All testing shall follow ASTM standards.
4. Admixtures shall contain no more than 0.1 percent water-soluble chloride ions by mass of cementitious material. Do not use admixtures containing calcium chloride.
   a. Water-Reducing Admixture: ASTM C494, Type A
   b. High-Range, Water-Reducing Admixture: ASTM C494, Type F
   c. Water-Reducing and Accelerating Admixture: ASTM C494, Type E
   d. Water-Reducing and Retarding Admixture: ASTM C494, Type D
   e. Air-Entraining Admixture: ASTM C260
5. Repair and patch defective areas as directed by Architect.

ENGINEERING DATA

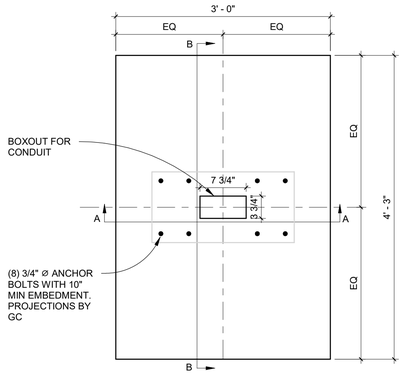
Design soil bearing pressure	1000 psf (assumed)
Design stresses	
Concrete	
Footings and Foundations	f'c = 3500 psi
Grade slabs	f'c = 3500 psi
Reinforcing steel	Fy = 60000 psi
Structural design requirements	
Risk Category	I
Wind Load	
Ultimate design wind speed (3 sec)	120 mph
Wind exposure category	C
Signage pressure coeff (GCf)	1.35
Components & cladding (varies)	
Signage design pressure	27 psf
Seismin Design Catagory	A or B (assumed)
Specific Design Loads	
Kiosk dead load	800 lb
Design codes	
General building code	IBC 2015
Concrete	ACI 318



FOOTING PLAN VIEW

1 S101 — OPTION 1 SPREAD FOOTING WITH PIER

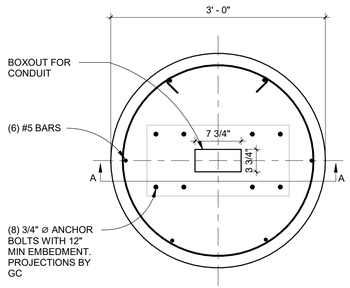
SCALE: 1" = 1'-0"



FOOTING PLAN VIEW

2 S101 — OPTION 2 SHALLOW SPREAD FOOTING

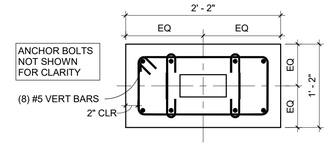
SCALE: 1" = 1'-0"



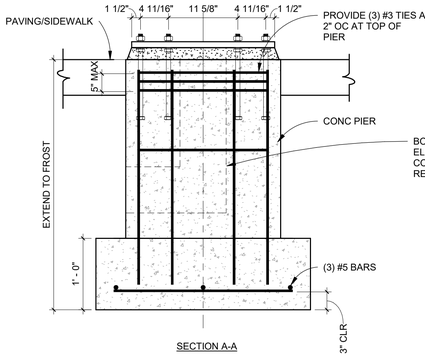
FOOTING PLAN VIEW

3 S101 — OPTION 3 SONOTUBE

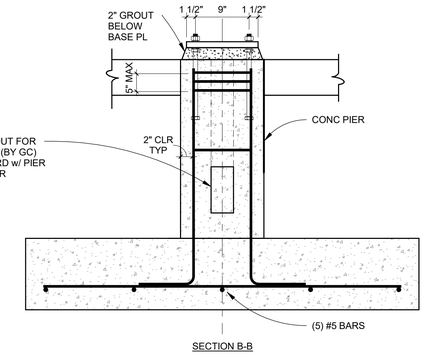
SCALE: 1" = 1'-0"



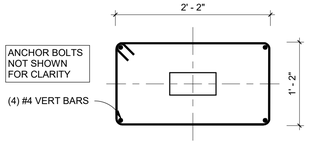
PIER PLAN VIEW



SECTION A-A

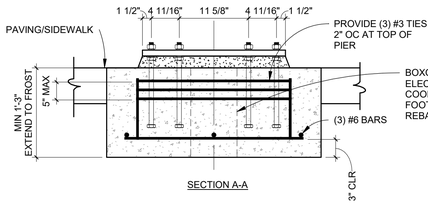


SECTION B-B

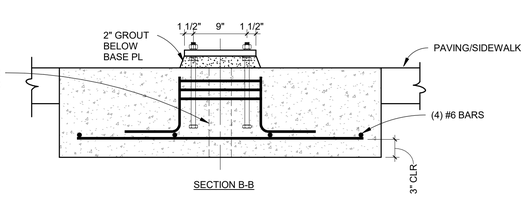


REINF CAGE PLAN VIEW

GC OPTION:
MAY LOWER FOOTING 12" BELOW TOP OF PAVING AND ADD PIER SIM TO DETAIL 1



SECTION A-A



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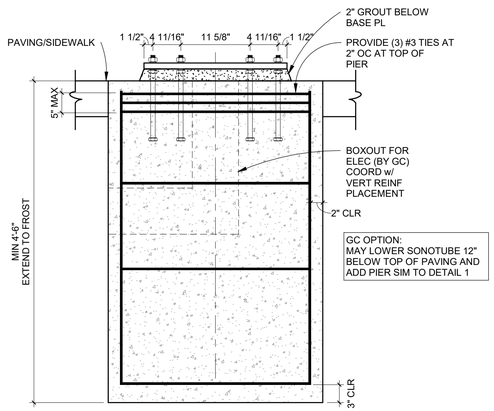


GC OPTION:
MAY LOWER SONOTUBE 12" BELOW TOP OF PAVING AND ADD PIER SIM TO DETAIL 1

SECTION A-A

JDH Structural Engineering
3000 Ivanrest Ave, SW Suite B
Grandville, Michigan • 49418
616.531.6020 • www.jdhseng.com

STATE OF MICHIGAN — LICENSED PROFESSIONAL ENGINEER
04.18.2022
JOSHUA A. CARDINAL
ENGINEER
No. 65403

IKE SmartCity Kiosks

KIOSK FOUNDATION OPTIONS

ISSUED FOR: CONSTRUCTION

DATE: 04.18.2022

DRAWN BY: MF

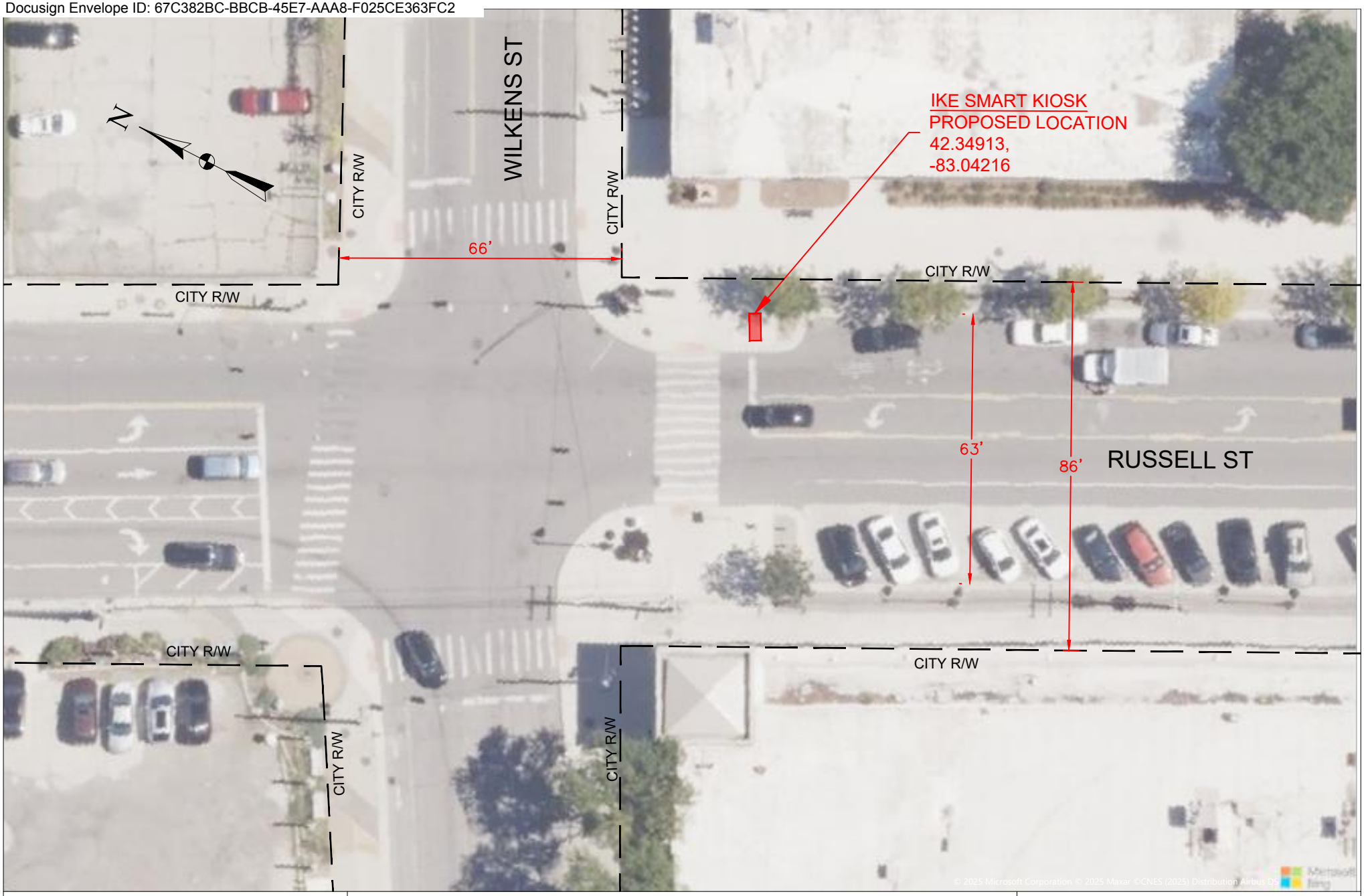
PROJECT NUMBER: 2022-03-015

SHEET NUMBER: S101

HARDWARE SPECIFICATIONS

Dimensions of Footprint: 37.5" x 12.5"
Total Space Required for Installation: 74" x 76"
Size of Digital Interface: 12.3 sq ft

HARDWARE	DESCRIPTION
PHYSICAL DIMENSIONS OF DESIGN	• Size: (H x W x D) 99.5" x 37.5" x 12.5" • Weight: 832 lbs • Required sidewalk area: 74" x 76" • 74" x 36" level area on both sides of the kiosk is provided in compliance with building codes
POWER SOURCE	• 20A @ 120V / 15A @ 240V • Max power consumption 1920W • Connects to new or existing metered/unmetered utility service as needed, fed from underground below the sidewalk • Evaluated to UL Safety Standards by a Nationally Recognized Testing Laboratory (NRTL)
TOUCHSCREEN DISPLAYS	• Screen size: 65" • Screen type: IPS LCD • Resolution: 1920 x 1080 • Aspect ratio: 16:9 • Active image area: 56.2" x 31.6" • Viewing angle: (H x V) 178° x 178° • Direct LED backlit • Brightness: 4000 nits, auto-adjusted by ambient light sensors • Supports polarized sunglasses
INTERNET CONNECTIVITY	• Wireless Access Point for free public Wi-Fi within a 150' radius of each kiosk • Connectivity provided by mobile modem, LTE Advanced with SIM-based auto-carrier • Fiber optics not required; Connection to Culver Connect Municipal Fiber Network is feasible with additional infrastructure steps
ADA COMPLIANCE	• Minimum touchscreen height (ADA enabled) = 15 inches • Maximum touchscreen height (ADA enabled) = 48 inches • Side reach maximum (i.e. footing-to-screen distance) = 10 inches • Leading edge of protrusion less than 27 inches
STANDARD/OPTIONAL CAMERAS	• Standard configuration: Two integrated video cameras for novelty use in Photo Booth application • Optional technology: One emergency call camera and two security cameras with a DVR recording system

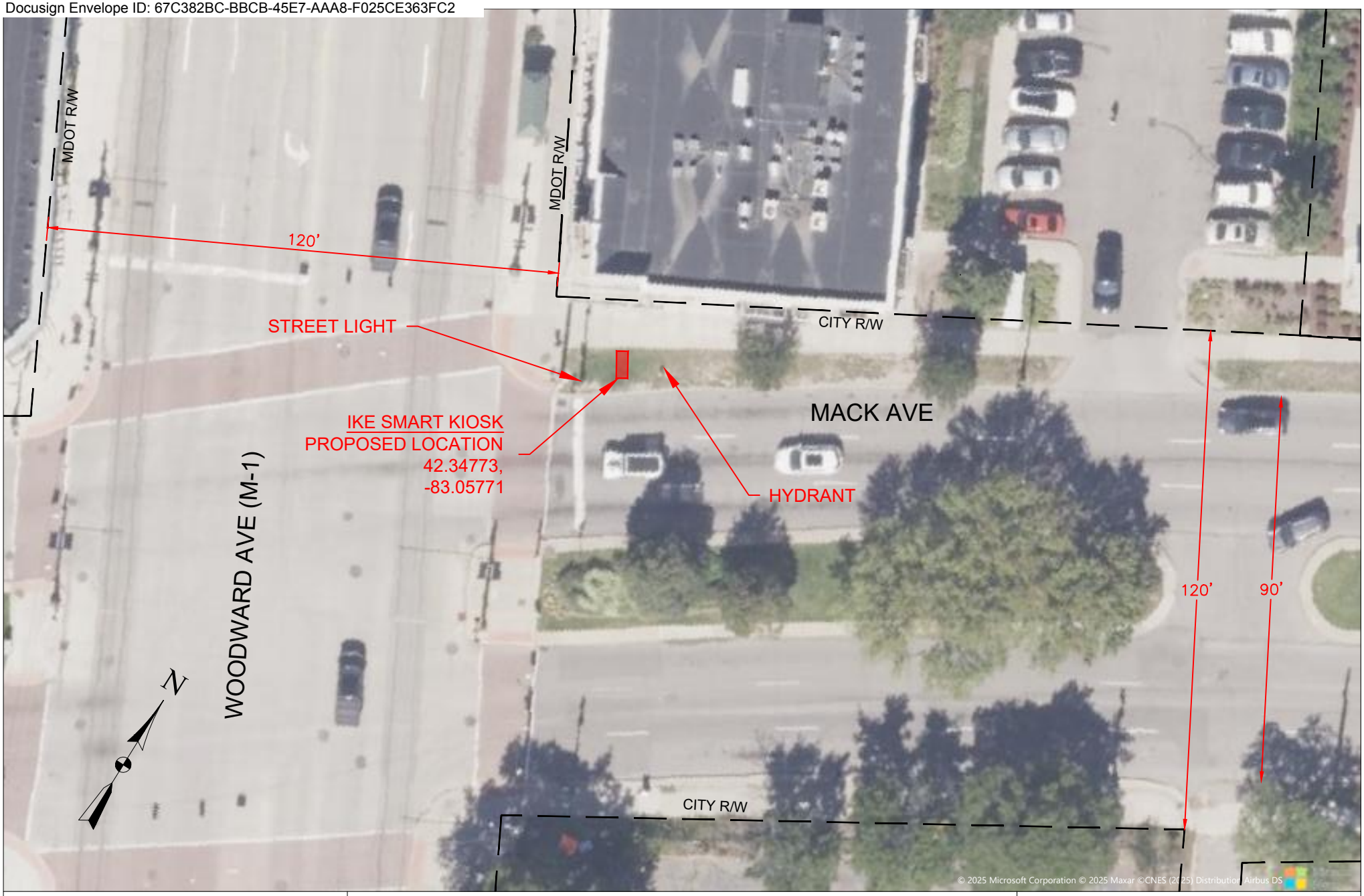


ike SMART CITY
250 N HARTFORD AVE
COLUMBUS, OHIO 43222
PHONE: 614.589.0087

PROJECT: RUSSEL ST & WILKENS ST

MES METRO ENGINEERING SOLUTIONS
22300 Haggerty Rd. Northville, MI 48167

IKE #:	DET-050
MES JOB:	1035-25-2759
DATE:	5/23/2025
SHEET:	



ike SMART CITY
250 N HARTFORD AVE
COLUMBUS, OHIO 43222
PHONE: 614.589.0087

PROJECT: WOODWARD AVE & MACK AVE

MES METRO ENGINEERING SOLUTIONS
22300 Haggerty Rd. Northville, MI 48167

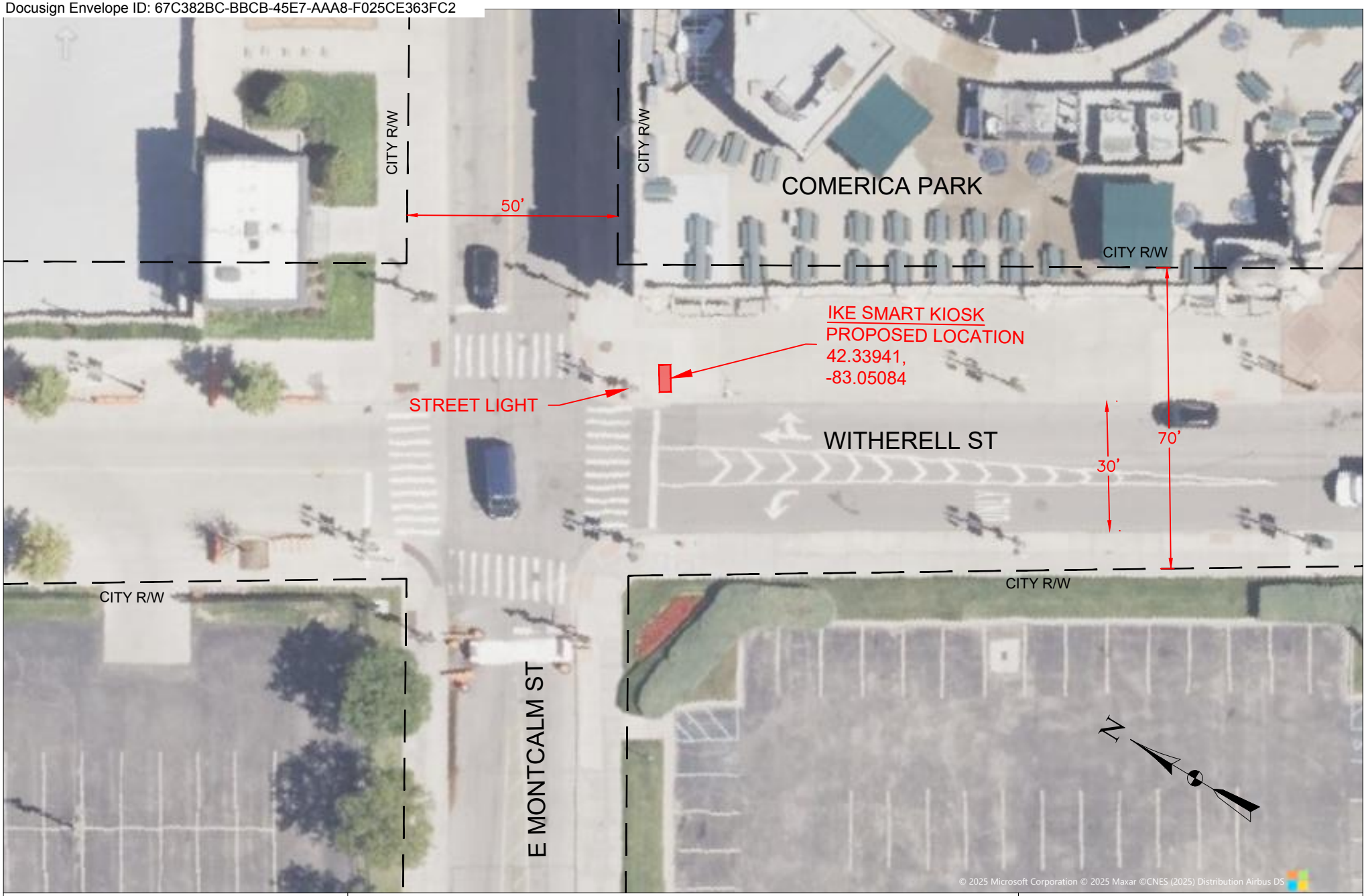
IKE #:	DET-051
MES JOB:	1035-25-2756
DATE:	5/23/2025
SHEET:	

ike SMART CITY
250 N HARTFORD AVE
COLUMBUS, OHIO 43222
PHONE: 614.589.0087

PROJECT: WOODWARD AVE & CONGRESS ST

MES METRO ENGINEERING SOLUTIONS
22300 Haggerty Rd. Northville, MI 48167

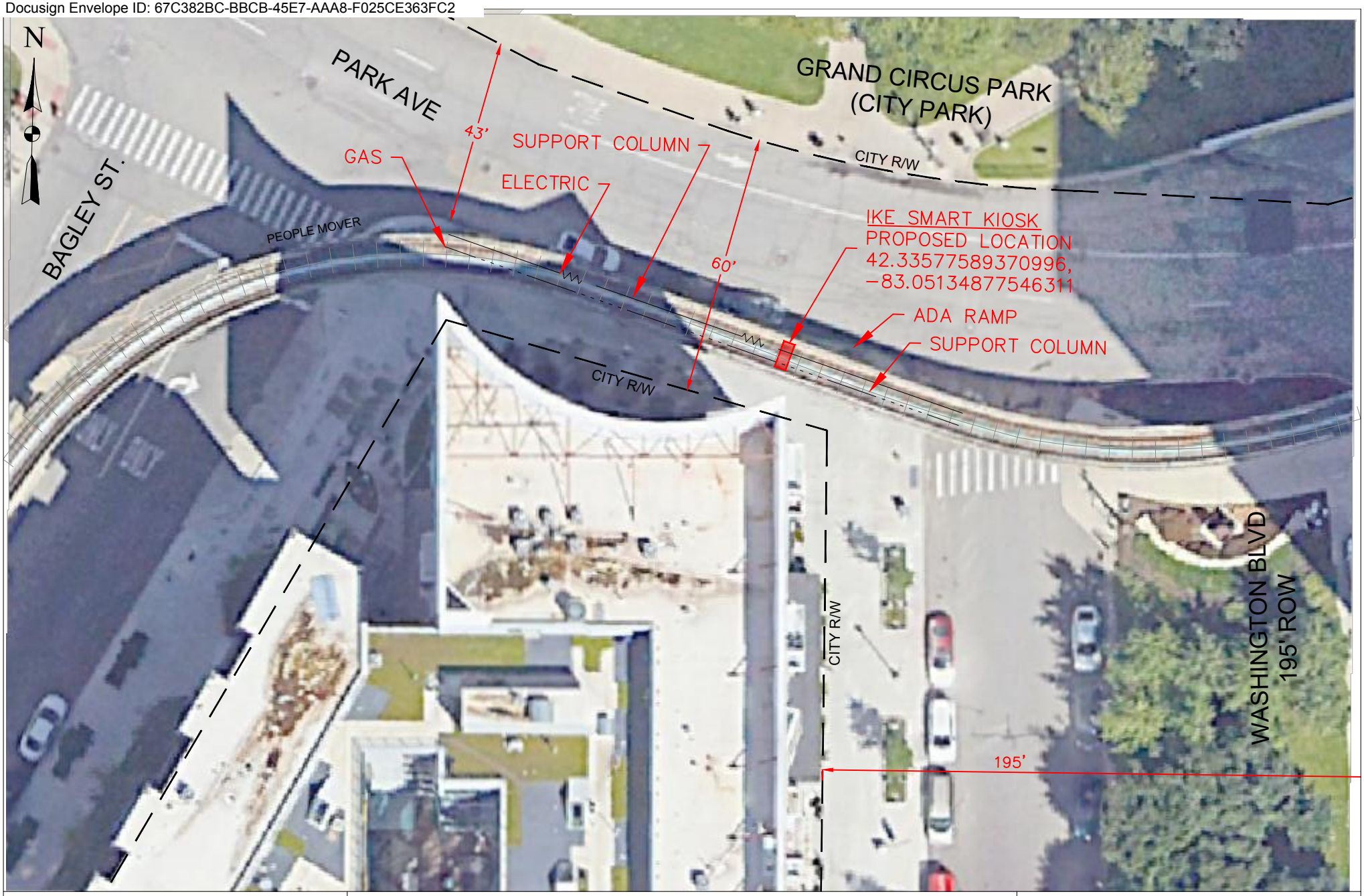
IKE #:	DET-052
MES JOB:	1035-25-2750
DATE:	5/23/2025
SHEET:	



ike SMART CITY
250 N HARTFORD AVE
COLUMBUS, OHIO 43222
PHONE: 614.589.0087

PROJECT:	E MONTCALM ST & WITHERELL ST
IKE #:	DET-053
MES JOB:	1035-25-2752
DATE:	5/23/2025
SHEET:	

METRO ENGINEERING SOLUTIONS
22300 Haggerty Rd. Northville, MI 48167

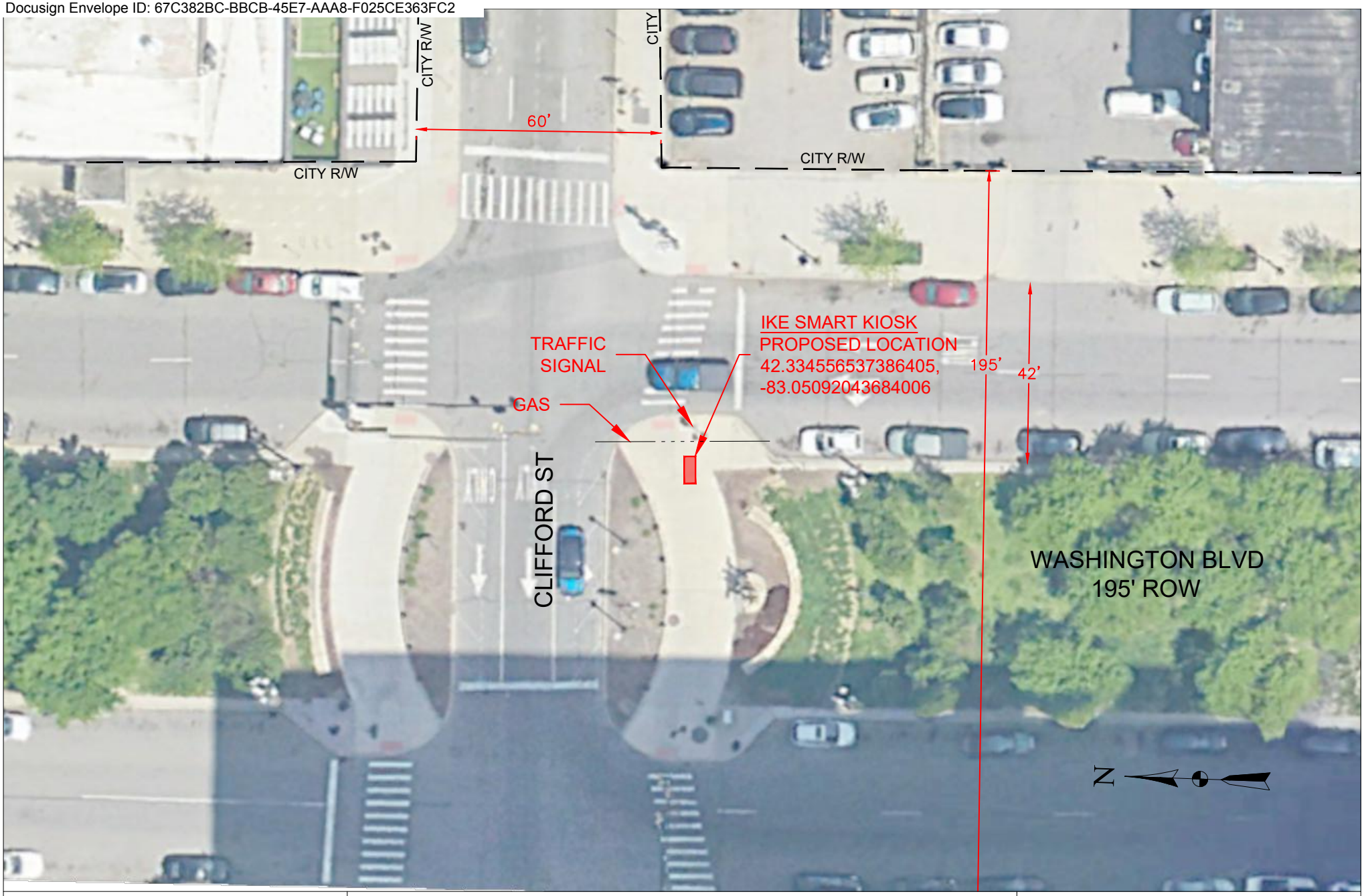


ike SMART CITY
250 N HARTFORD AVE
COLUMBUS, OHIO 43222
PHONE: 614.589.0087

PROJECT: PARK AVE & WASHINGTON BLVD

MES METRO ENGINEERING SOLUTIONS
22300 Haggerty Rd. Northville, MI 48167

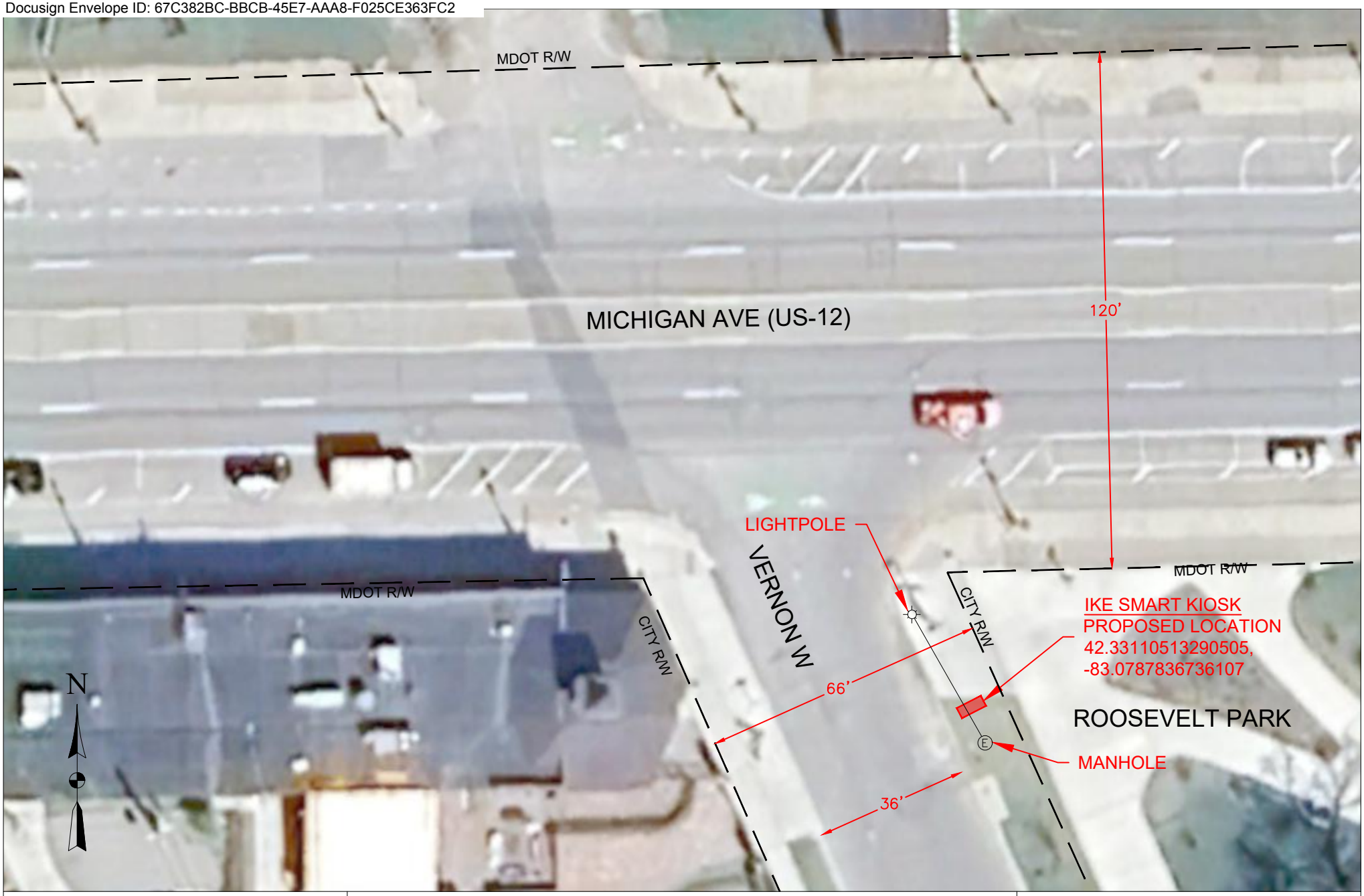
IKE #:	DET-055
MES JOB:	1035-25-2755
DATE:	5/29/2025
SHEET:	



ike SMART CITY
250 N HARTFORD AVE
COLUMBUS, OHIO 43222
PHONE: 614.589.0087

PROJECT:	WASHINGTON BLVD & CLIFFORD ST
IKE #:	DET-057
MES JOB:	1035-25-2757
DATE:	5/29/2025
SHEET:	

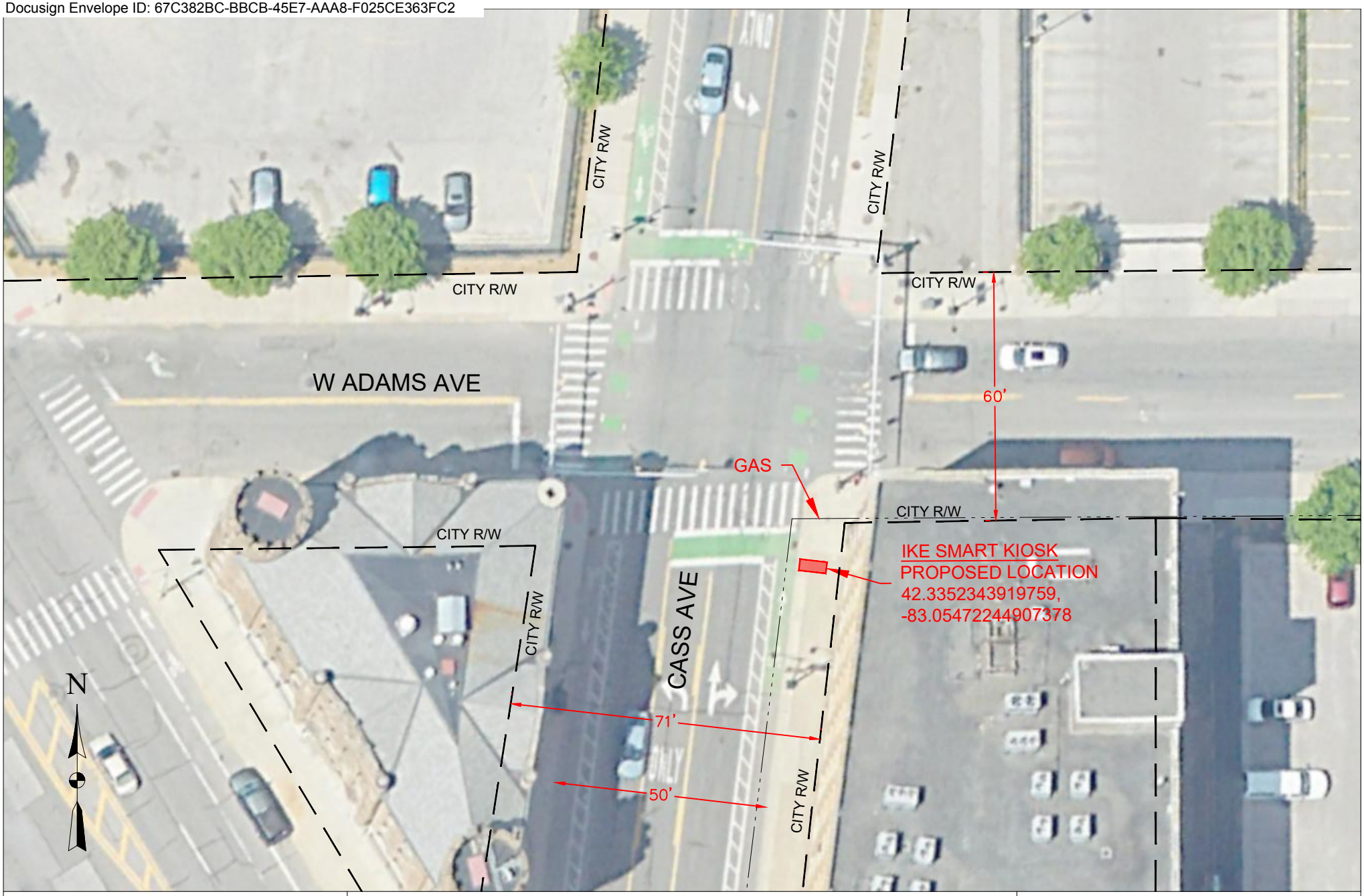
MES METRO ENGINEERING SOLUTIONS
22300 Haggerty Rd. Northville, MI 48167



ike SMART CITY
250 N HARTFORD AVE
COLUMBUS, OHIO 43222
PHONE: 614.589.0087

PROJECT:	MICHIGAN AVE (US-12) & VERNON W
IKE #:	DET-058
MES JOB:	1035-25-2747
DATE:	5/29/2025
SHEET:	

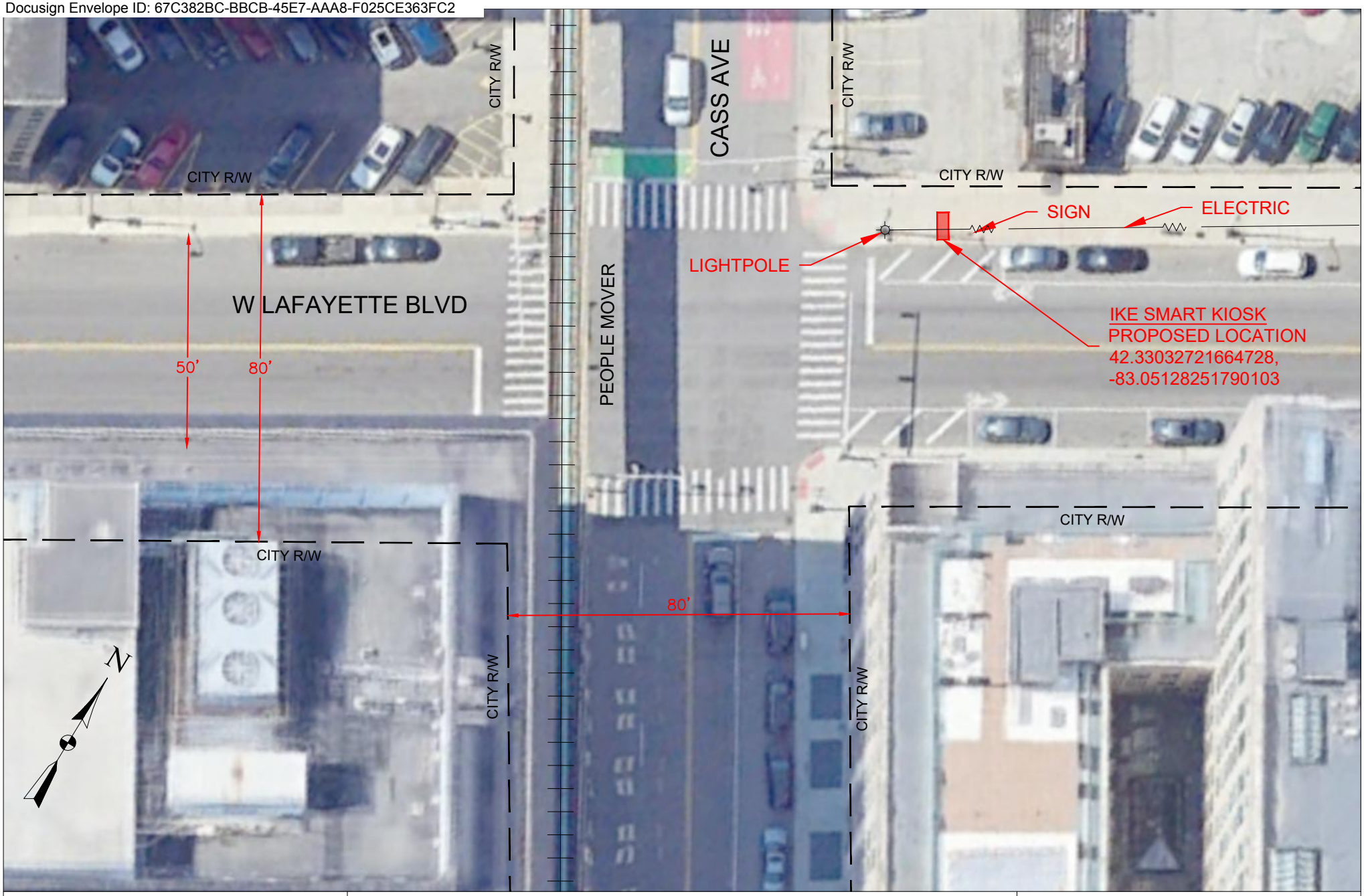
MES METRO ENGINEERING SOLUTIONS
22300 Haggerty Rd. Northville, MI 48167



ike SMART CITY
250 N HARTFORD AVE
COLUMBUS, OHIO 43222
PHONE: 614.589.0087

PROJECT:	CASS AVE & W ADAMS AVE
IKE #:	DET-059
MES JOB:	1035-25-XXXX
DATE:	5/29/2025
SHEET:	

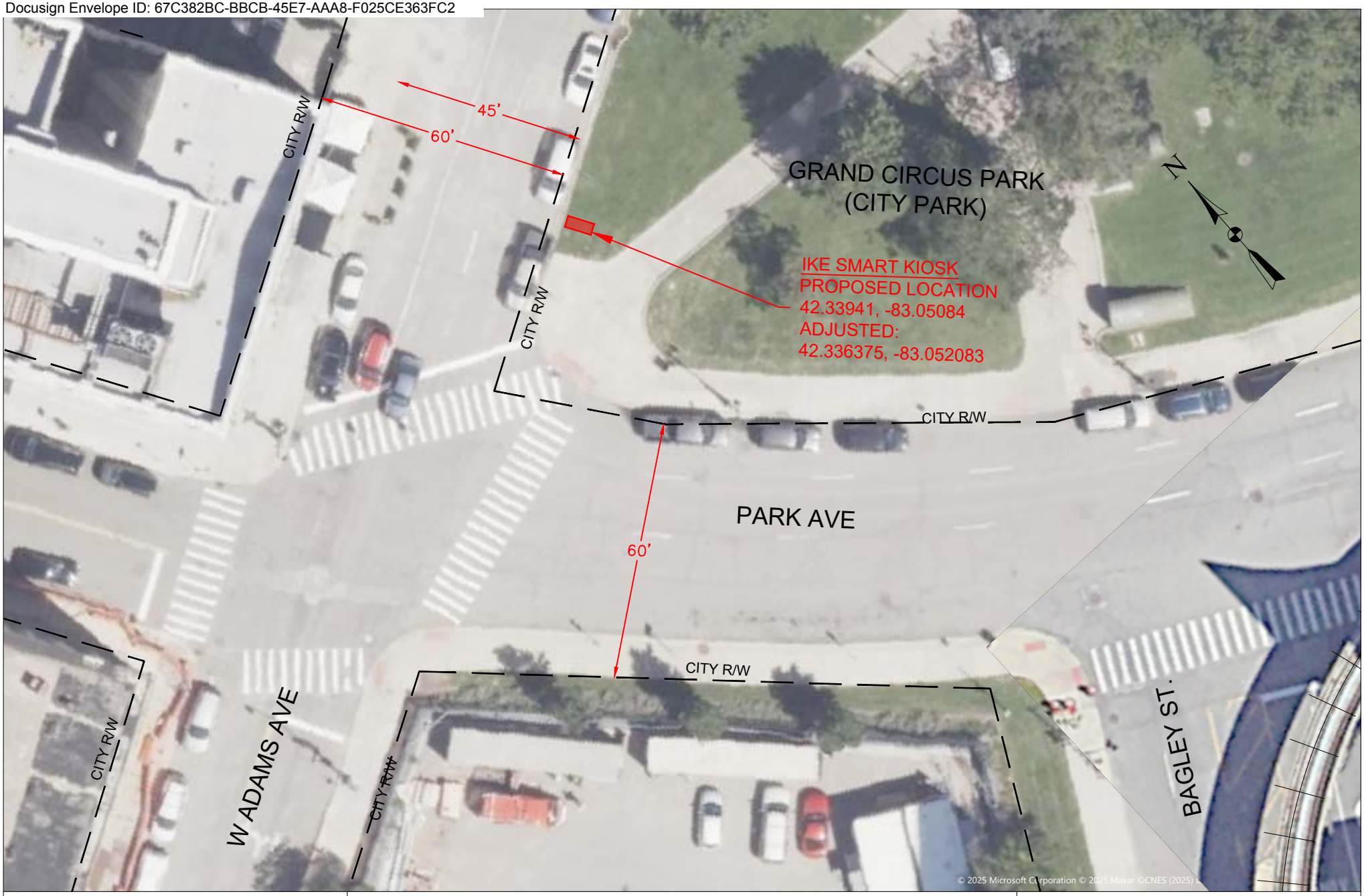
MES METRO ENGINEERING SOLUTIONS
22300 Haggerty Rd. Northville, MI 48167



ike SMART CITY
250 N HARTFORD AVE
COLUMBUS, OHIO 43222
PHONE: 614.589.0087

PROJECT:	W LAFAYETTE BLVD & CASS AVE
IKE #:	DET-060
MES JOB:	1035-25-2749
DATE:	5/29/2025
SHEET:	

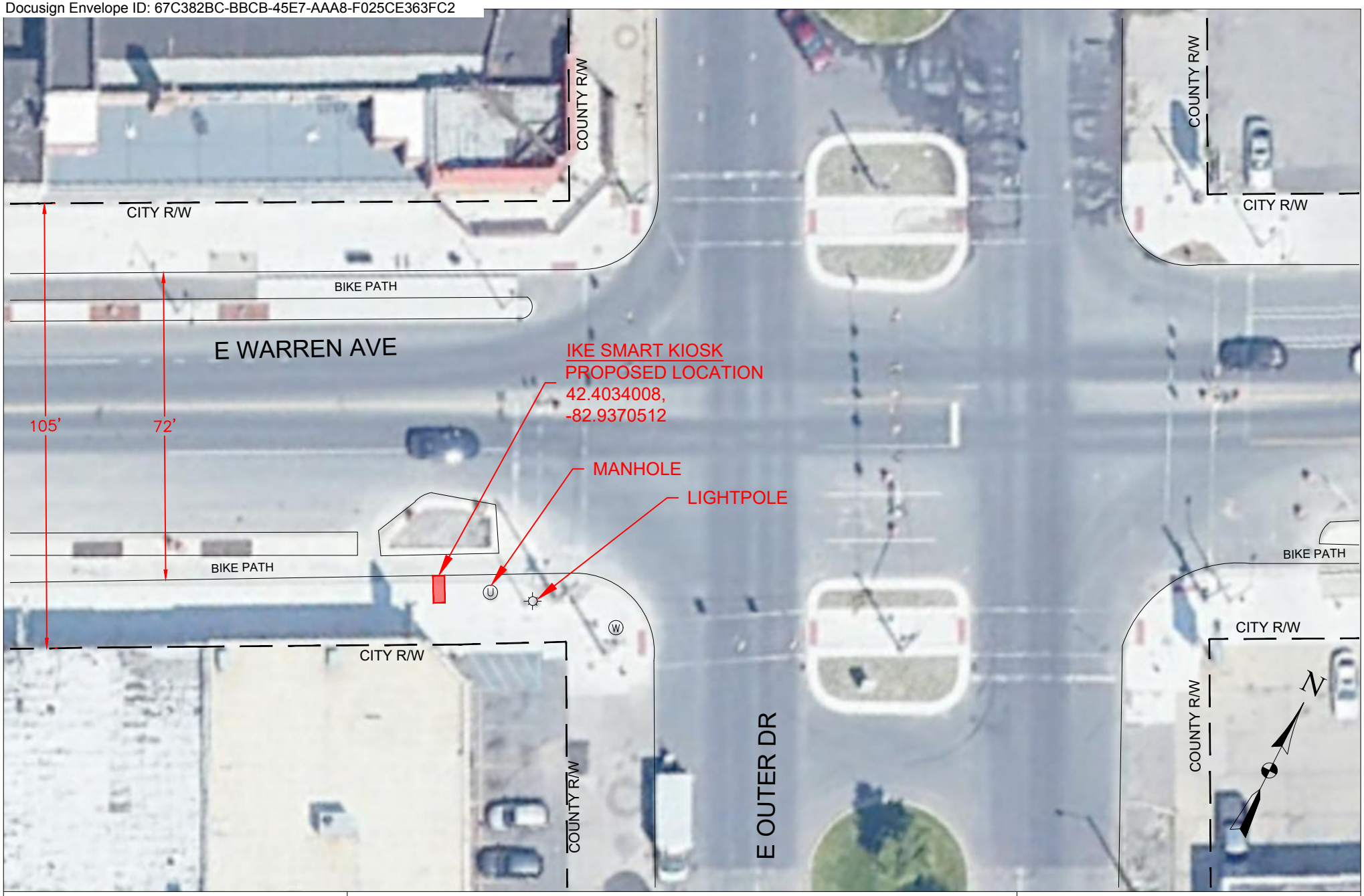
MES METRO ENGINEERING SOLUTIONS
22300 Haggerty Rd. Northville, MI 48167



ike SMART CITY
250 N HARTFORD AVE
COLUMBUS, OHIO 43222
PHONE: 614.589.0087

PROJECT:	PARK AVE & W ADAMS AVE
IKE #:	DET-063
MES JOB:	1035-25-2746
DATE:	5/23/2025
SHEET:	

MES METRO ENGINEERING SOLUTIONS
22300 Haggerty Rd. Northville, MI 48167

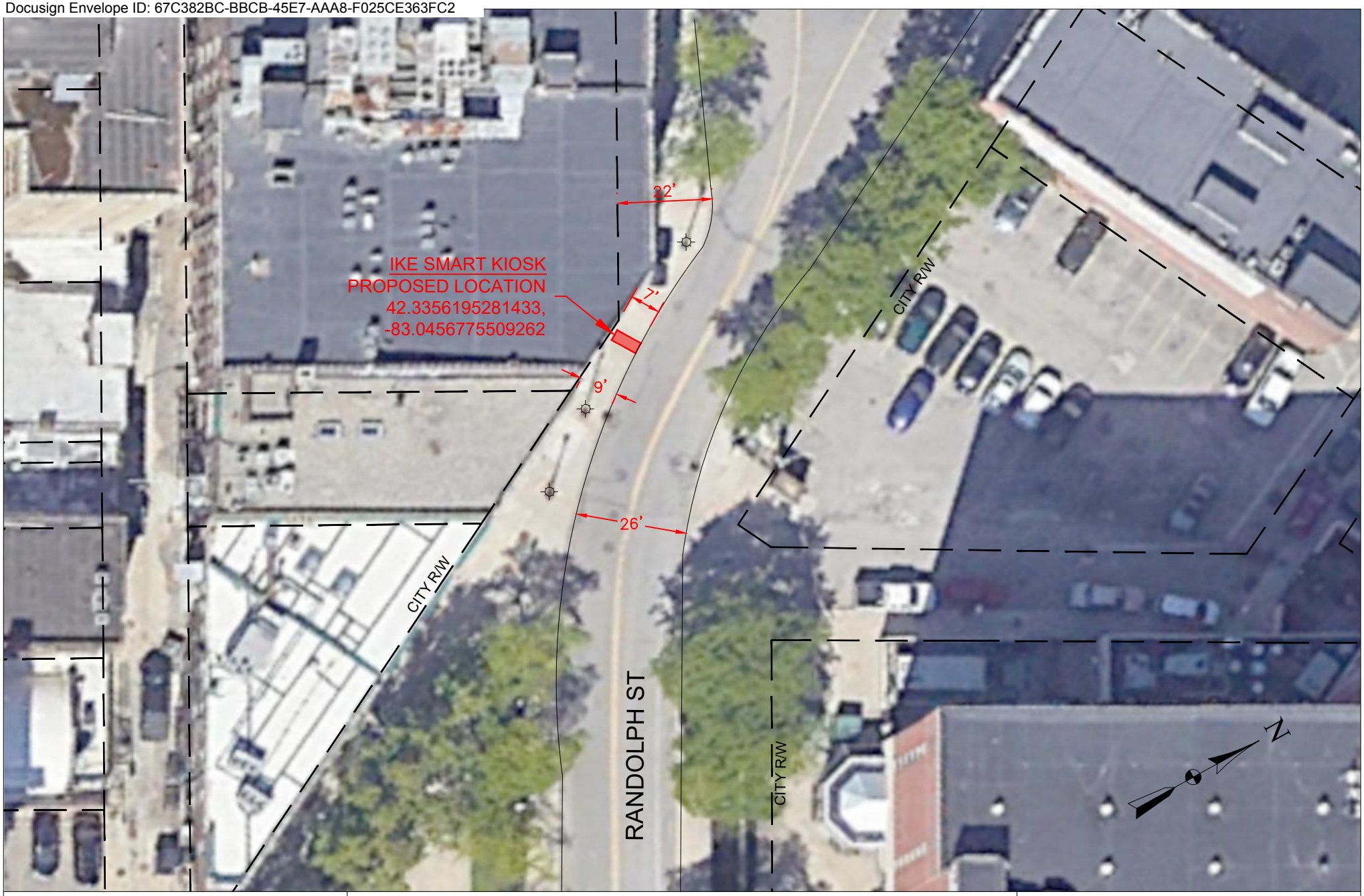


ike SMART CITY
250 N HARTFORD AVE
COLUMBUS, OHIO 43222
PHONE: 614.589.0087

PROJECT: E OUTER DR & E WARREN AVE

MES METRO ENGINEERING SOLUTIONS
22300 Haggerty Rd. Northville, MI 48167

IKE #:	DET-064
MES JOB:	1035-25-2772
DATE:	6/3/2025
SHEET:	



ike SMART CITY
250 N HARTFORD AVE
COLUMBUS, OHIO 43222
PHONE: 614.589.0087

PROJECT:	RANDOLPH STREET
IKE #:	DET-065
MES JOB:	1035-25-XXXX
DATE:	6/3/2025
SHEET:	

MES METRO ENGINEERING SOLUTIONS
22300 Haggerty Rd. Northville, MI 48167

STRUCTURAL GENERAL NOTES

DESIGN LOADS & GOVERNING BUILDING CODE

Code: Michigan Building Code (MBC) - 2015 Edition

Kiosk: Dead Load = 700 lbs

Wind: Nominal Design Wind Speed, $V_{(ASD)}$ = 81 MPH (3-Second Gust)
Ultimate Design Wind Speed, $V_{(ULT)}$ = 105 MPH (3-Second Gust)
Exposure = C
p = 27.7 psf

Seismic: Seismic Design Category = B
Risk Category = I

GENERAL CONSTRUCTION NOTES

- The Structural Contract Documents are intended to be used in conjunction with the plans of all other disciplines working on the project. The contractor is responsible for the coordination of all required information.
- Modifications to the Structural Contract Documents due to conditions at the site that are unknown or concealed at the time of design do not fall within the original scope of work of the project. Required modifications shall be performed as additional services as outlined in the project contract. The Engineer shall be notified in writing by an (RFI) to provide recommendations for resolution of the modification requested.
- Dimensions and elevations indicated on the Structural Contract Documents shall be coordinated by the contractor with all other disciplines prior to the beginning of construction. Discrepancies shall be brought to the attention of Display Devices, Inc. and Anchor Engineering, Inc. Scaling of the Structural Contract Documents is not permitted.
- The contractor shall verify field conditions including existing utilities, sub-grade and above grade conditions which may interfere with construction and notify the applicable disciplines for modifications as required.
- In the event of discrepancies between project specifications, general notes, plans and details, the most stringent requirements shall apply unless approved in writing.

EXISTING CONSTRUCTION

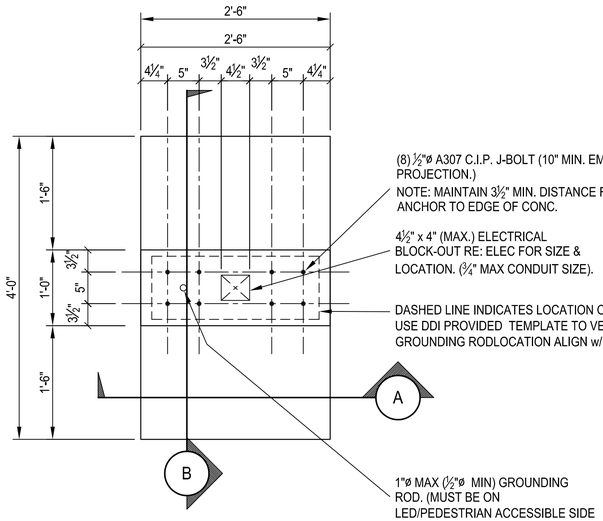
- Preparation of the Structural Contract Documents is based on available existing construction documents and third-party site observations of exposed conditions. Actual field conditions exposed during construction and found to conflict with the Structural Contract Documents shall be brought to the attention of the Display Devices, Inc. and Anchor Engineering, Inc.
- Prior to the construction phase of the project, the contractor shall become familiar with the existing structure and all aspects that may influence the construction process.
- Owner and Anchor Engineering, Inc. shall be contacted in the event of uncovered elements found during the project that appear to be unsound or otherwise structurally deficient.

FOUNDATION DESIGN (Footings)

- The foundation design is based on conclusions & recommendations found in the geotechnical report project #03811252 provided by intertek psi dated August 19, 2021. All recommendations found in this report shall be followed, including site preparation. A copy of this soils report is available for review at the Structural Engineers office, the Architects office, or the job site trailer.
- Conventional Spread Footings:
  a. Maximum Allowable Bearing Pressure..... 1,500 psf
  b. Minimum Frost Depth..... 42"
- The site shall be prepared in accordance w/ the project geotechnical report prior to foundation construction.
- All footings shall be placed on adequate bearing stratum or to a min. depth as shown on the drawings, whichever is deeper.

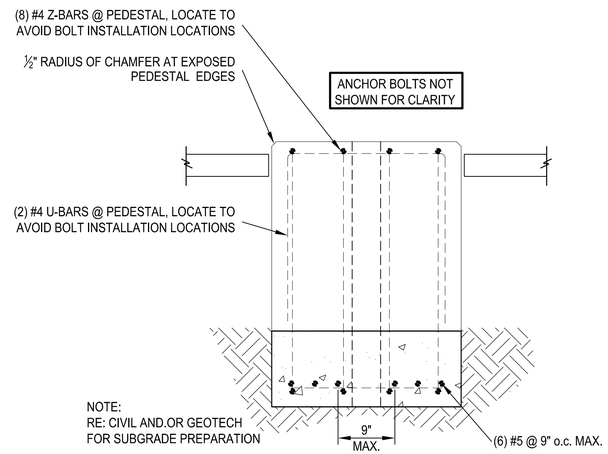
REINFORCED CONCRETE

- Design is based on "Building Code Requirements for Reinforced Concrete" (ACI 318 - Latest Edition). Concrete work shall conform to "Specifications for Structural Concrete for Buildings" (ACI 301 - Latest Edition). Hot and cold weather shall be in conformance with ACI 305 and ACI 306 respectively.
- Structural concrete shall have minimum 28-day compressive strength of 4000 psi.
- Cement shall be Portland Cement as noted above, conforming to ASTM C150.
- Aggregate size shall not exceed ¾"
- Chloride admixtures shall not be used.
- Concrete exposed to weather shall have a minimum air entrainment of 6 ± 1½ percent.
- Fly ash shall conform to ASTM specification C618, class C or class F. Fly ash shall not exceed 20% of the total weight of cementitious material.
- Reinforcing Bars shall conform to ASTM A615 or ASTM A706. All bars shall be Grade 60. Detailing, fabrication, and placement of reinforcing steel shall be in accordance with the "Manual of Standard Practice for Detailing Reinforced Concrete Structures (ACI 315 - latest ed.)".

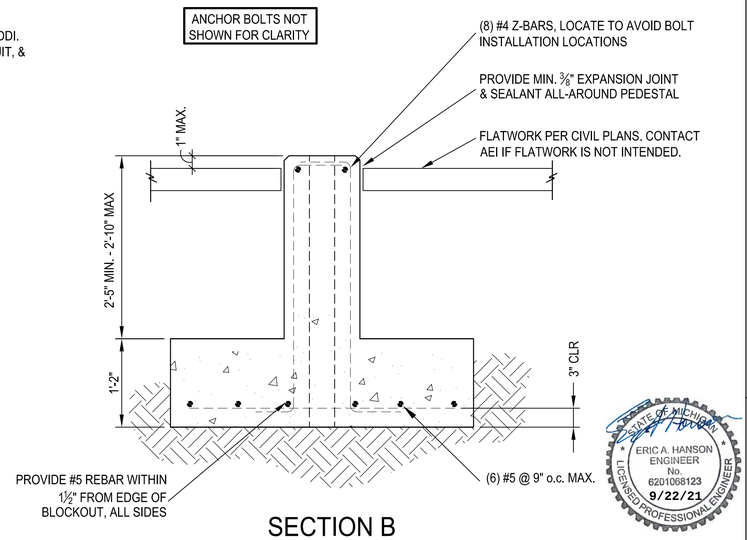


PLAN VIEW

ADDRESS SCHEDULE	
KIOSK ID	ADDRESS
DET-001	LIBRARY ST & FARMER ST.
DET-003	SHELBY ST. & GRISWOLD ST.
DET-004	CADILLAC SQUARE & WOODWARD AVE
DET-005	WOODWARD & E. CONGRESS ST
DET-013	OUTER DRIVE W & LIVERNOIS AVE



SECTION A



SECTION B

STATE OF MICHIGAN
ERIC A. HANSON
ENGINEER
No. 6201068123
9/22/21
LICENSED PROFESSIONAL ENGINEER

Digitally signed by Eric A. Hanson
DN: C=US, E=eric.hanson@kimley-horn.com, O=Kimley-Horn and Associates, Inc., CN=Eric A. Hanson
Date: 2021.09.22 09:42:50-06'00'

ISSUED FOR CONSTRUCTION
DATE: SEPTEMBER 22, 2021

ike SMART CITY

ANCHOR ENGINEERING
STRUCTURAL ENGINEERS
2535 17th Street
Denver, CO 80211
303-783-4797
anchoreng.com

DRAWN BY:	CHM
CHECKED BY:	EAH
APPROVED BY:	EAH
PROJECT NO.:	180934
ISSUE DATE:	09/13/2019

Kimley»Horn

IKE KIOSK FOUNDATION

IKE SMART CITY - DETROIT, MI

CONSTRUCTION DOCUMENTS

S1.0

DISPLAY DEVICES
Design • Engineering • Manufacturing

65” PENTAGRAM IKE

Overview

The 65” OBM IKE is designed for outdoor digital advertising with Smart City features including pedestrian interactivity and analytics. The kiosk encourages city exploration by providing wayfinding, points of interest, business listings and live transit info. The exterior form and proportions of the hardware was designed by Pentagram. Engineered and manufactured by Display Devices.

Equipment and Features

- Customizable aesthetics including colors and signage
- ADA compliant
- Supports static and dynamic imagery
- Dual sided auto dimming monitors up to 4000 nits, ensures visibility day or night, in any weather condition
- Top of the line projected capacitive touch screens, auto-fixing and multi touch
- Custom air conditioning and heating system
- Environmental Control System keeps equipment running in an operable environment, including cloud power management and system monitoring
- Industrial media players
- Selfie Cameras
- Multi language supported
- Laminated tempered glass, aluminum (corrosion resistant) construction and security locks keep hardware safe from environmental factors and the public including vandalism
- Bluetooth beacon

Optional Equipment or Features

- Push button emergency call system with local municipality monitoring w/ UPS (12hr idle, 20 min call)
- Security/facial recognition system, cameras and DVR
- Air quality monitoring system: Volatile Organic Compounds (VOC), Carbon Monoxide (CO), Ozone (03), Sulfur Dioxide (S02), Nitrogen Dioxide (N02), Particulate Matter (PM), Humidity, Temp and Pressure
- Small cell repeater (connectivity)
- Hotspot WiFi plus live audience data via handheld device detection/analytics
- Speakers and headphones jack
- External *fake* security camera for deterring vandalism and vicinity crimes

Kiosk Specifications

ADA Compliance	• Minimum touchscreen height (ADA enabled) = 15 inches • Maximum touchscreen height (ADA enabled) = 48 inches • Side reach maximum (i.e. footing-to-screen distance) = 10 inches • Leading edge of protrusion must be less than 27 inches
Electrical Requirements	• 50A @ 110V (or 2X 20A @ 110V) / 20A @ 220V / optional 277V • Max power consumption ~3783W (basic features) / ~4020W (all features) • Designed, Inspected and labeled to UL standards
Footing/Structural	• To be designed by regionally licensed structural engineers to meet exact location requirements. These requirements take into consideration wind loads, soil types, regional codes and other site conditions. • Soil bearing pressure = 1,500 psf & coefficient of friction = 0.30 • Wind Speed V(asd)= 81 mph (3 seconds), V(ult) = 105 mph (3 seconds)
Environmental Conditions	• Operating temperature: -30°F to 130°F • Operating humidity: 5% to 95% • Protective door glass is tempered and laminated with optical clear resin • Dust and water resistance to a rating of IP-56 • Designed for 20” flood water line
Display	• Dynascan Model (DS652LR5) • Power Consumption: 740W max each • Screen size: 64.53 inches • Screen type: IPS LCD • Orientation: Portrait • Direct LED backlit, Brightness: 4000 nits • Active Image Area: 56.2 x 31.6 inches. (1428.5 x 803.5 mm) • Resolution: 1920 x 1080, Aspect Ratio: 16:9 • Viewing angle: (H x V) 178° x 178° • Dimmable based on ambient light sensor • Lifetime 50,000 hours
Connectivity	• Mobile Modem, LTE Advanced with SIM-based auto-carrier • Fiber Optics • Copper
Sound Levels	• 40-80 db (mid-day heavy populated pedestrian mall 1-8 db over ambient at 5ft) *based on downtown denver kiosks as comparable example*
Air Conditioner	• 110V, 220v -optional • Power consumption ~1400W • Dual compressor • 12K BTU • 12 x 16 custom air filter
Physical	• Approximate weight: ~800lbs. • Size: (H x W x D) 99.5” x 37.5” x 16”