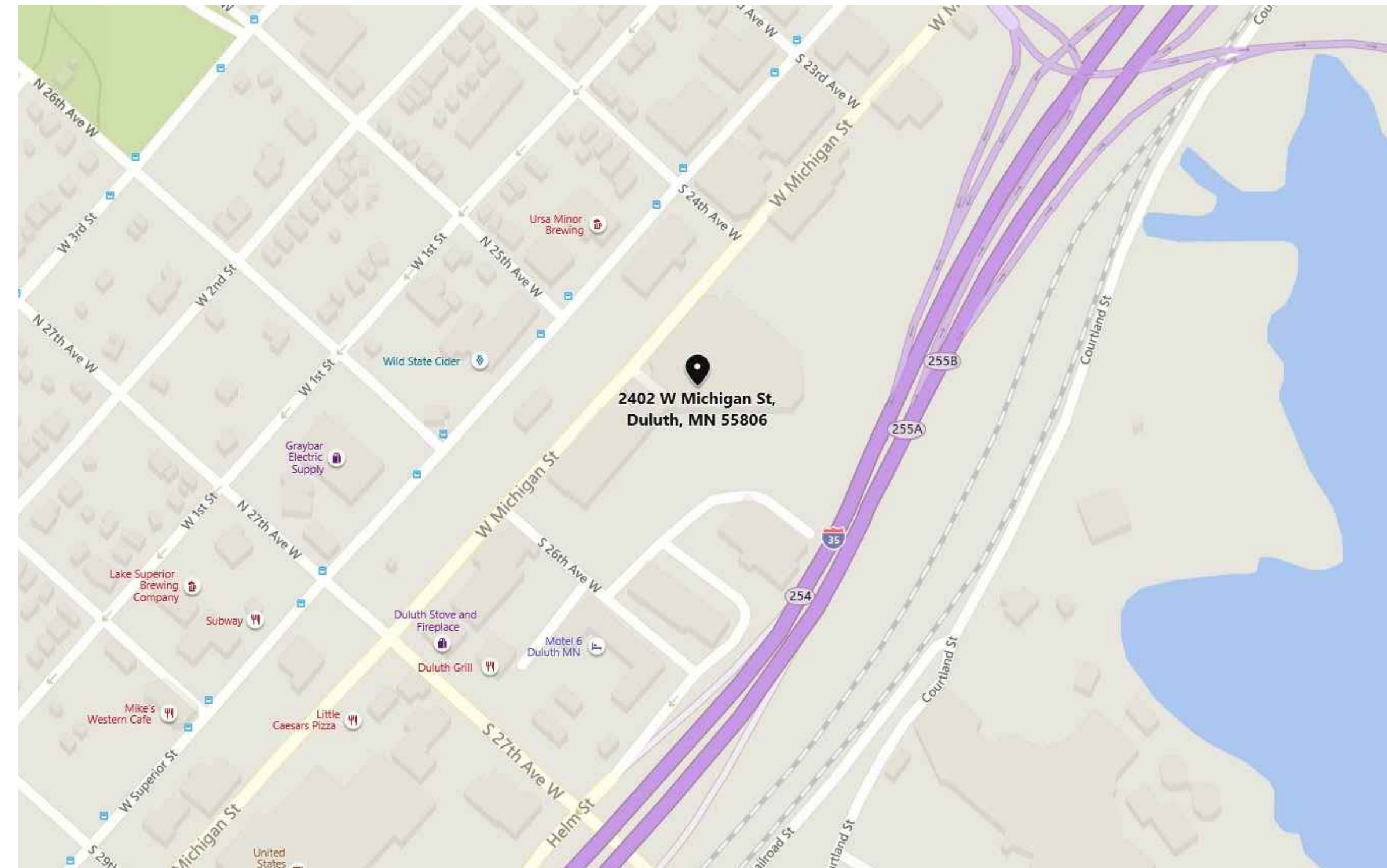


2019 PARTIAL REROOFING OPERATIONS CENTER DULUTH TRANSIT AUTHORITY DULUTH, MINNESOTA



PARTICIPANTS

OWNER:
DULUTH TRANSIT AUTHORITY (DTA)
2402 WEST MICHIGAN STREET
DULUTH, MN 55806

PROCUREMENT MANAGER
NANCY BROWN
nbrown@duluthtransit.com
(218) 623-4329

PROJECT MANAGER
JIM CAYWOOD
jcaywood@duluthtransit.com
(218) 623-4332

ARCHITECT:
INSPEC, INC.
ENGINEERS/ARCHITECTS
5801 DULUTH STREET
MINNEAPOLIS, MN 55422
(763) 546-3434
(763) 546-8669 - FAX

PROJECT ARCHITECT
GARY C. PATRICK, AIA, RRC
gpatrick@inspec.com

SENIOR PROJECT MANAGER
DALE MEIERHOFER
dmeierhofer@inspec.com

STRUCTURAL CONSULTANT:
MEYER BORGMAN JOHNSON (MBJ)
501 LAKE AVENUE SOUTH
DULUTH, MN 55802
(218) 722-1056 x101
(218) 310-4329 - Mobile

PROJECT ENGINEER
PAUL A. JOHNSON, PE
pjohnson@mbjeng.com

ENVIRONMENTAL CONSULTANT:
INSTITUTE FOR ENVIRONMENTAL ASSESSMENT (IEA)
9201 WEST BROADWAY NORTH
SUITE 800
BROOKLYN PARK, MN 55445
(763) 215-7900
1(800) 233-9513

BILL DOLD
billd@ieainstitute.com

GENERAL NOTES

1. VERIFY MEASUREMENTS AND CONDITIONS ON THE PROJECT.
2. SPECIFICATIONS INCLUDE BRIEF DESCRIPTIONS OF EXISTING CONDITIONS.
3. REVIEW SPECIFICATIONS FOR INSTRUCTIONS NOT SHOWN ON DRAWINGS.
4. EXISTING AND NEW MATERIALS COMMON TO SEVERAL DETAILS MAY BE NOTED ON ONLY ONE.
5. FASTENERS ON DETAILS ARE GENERAL REPRESENTATIONS, SEE SPECIFICATIONS FOR ACTUAL FASTENERS TO BE USED.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING SAFE WORKING CONDITIONS ON AREAS FOR EMPLOYEES OR OTHER PERSONS AT THE SITE.
7. FASTEN WOOD BLOCKING TO MASONRY WITH 1/4" DIAMETER MASONRY ANCHORS AT 3'-0" O.C., STAGGERED.
8. NAIL MEMBRANE FLASHING AT TOP EDGE THROUGH 1" DIAMETER METAL DISCS AT 8" O.C. AND SEAL TOP EDGE. USE MASONRY ANCHORS AT 12" O.C. FOR MASONRY SURFACES.
9. SHEET METAL SHOWN SHALL BE NEW 24 GA. COLOR-COATED G.S. UNLESS NOTED OTHERWISE. (FOR END CLOSURES, PROVIDE FULLY SOLDERED BONDERIZED SHEET METAL PREP PRIME AND PAINT TO MATCH ADJACENT SHEET METAL)
10. FASTEN CAP FLASHINGS (NON ROOF EDGE RELATED) AND COUNTERFLASHING TO WOOD BLOCKING WITH SCREWS THROUGH EPDM WASHERS AT 30" O.C.
11. KEEPER STRIPS SHALL BE NEW 22 GA. G.S. NAIL FASTENED AT 6" O.C., UNLESS NOTED OTHERWISE.
12. FASTEN ROOF EDGE CAP FLASHING WITH SCREWS THROUGH EPDM WASHERS AT 18" O.C. MAXIMUM 10'-0" SPANS FOR CAP AND FASCIA FLASHING. PROVIDE COVER PLATE AS DETAILED.
13. NOT ALL PIPING, CABLE, CONDUIT, ETC. ARE SHOWN ON ROOF PLAN. SITE VERIFY AND MODIFY AS REQUIRED TO PROVIDE NEW MATERIALS. COORDINATED DISCONNECTS WITH OWNER.

INDEX TO DRAWINGS

- T1 TITLE SHEET
- A1 ROOF PLAN ADMINISTRATION/ BUS STORAGE
- A1.1 ROOF PLAN MAINTENANCE
- A2 ROOFING DETAILS
- A3 ROOFING DETAILS
- A4 ROOFING DETAILS
- A5 ROOFING DETAILS
- A6 ROOFING DETAILS

CODE INFORMATION

THE ROOF R-VALUES FOR THIS PROJECT MEET CURRENT IECC 2012 CODE REQUIREMENTS AS LISTED BELOW:

AREA ADMINISTRATION (HIGH)	R-VALUE
RIGID INSULATION 1" TOP LAYER	2.78
ISOCYANURATE INSULATION 5.5" AVERAGE THICKNESS	30.8
PERLITE INSULATION 1" BOTTOM LAYER	2.78
SUBTOTAL	36.36

AREA ADMINISTRATION (LOW)	R-VALUE
RIGID INSULATION 1" TOP LAYER	2.78
TAPERED ISOCYANURATE INSULATION 6.7" AVERAGE THICKNESS	37.52
SUBTOTAL	40.3

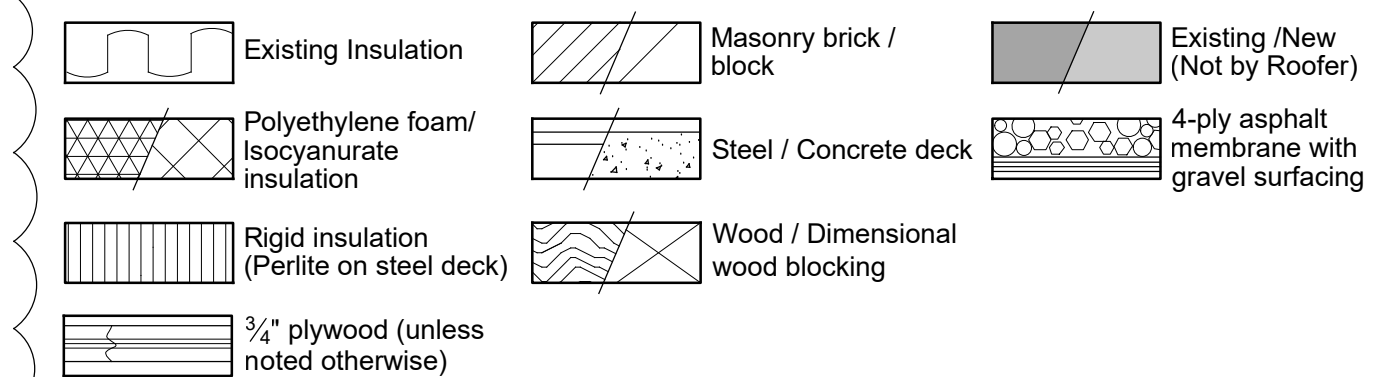
AREA BUS STORAGE AND MAINTENANCE	R-VALUE
RIGID INSULATION 1" TOP LAYER	2.78
ISOCYANURATE INSULATION 5.5" AVERAGE THICKNESS	30.8
PERLITE INSULATION 1" BOTTOM LAYER	2.78
SUBTOTAL	36.36

CODE MINIMUM REQUIREMENT FOR ABOVE DECK INSULATION IS R=35

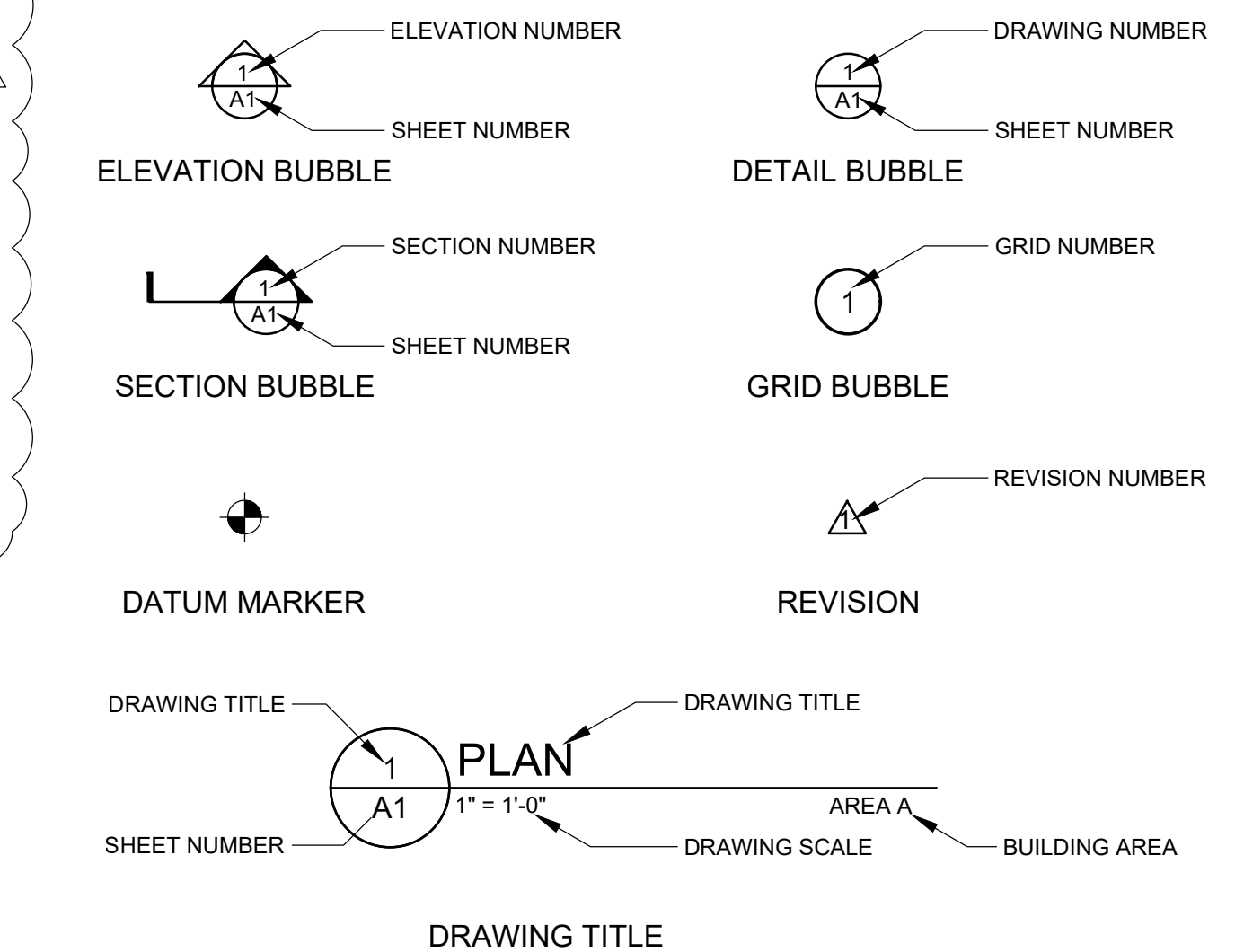
BUILDING CLASSIFICATION USED WITH ORIGINAL 1980 DESIGN (U.B.C.) AND 2019 REROOFING DESIGN (2012 I.B.C.)
 • THE 2019 REROOFING DESIGN IS INTENDED TO ALIGN WITH THE FIRE-RESISTANCE RATING FROM THE ORIGINAL DESIGN WHICH EXCEEDS THE REQUIREMENTS IDENTIFIED IN 2012 I.B.C.

BUILDING AREA DESIGNATION	OCCUPANCY GROUP		TYPE OF CONSTRUCTION	
	ORIGINAL U.B.C.	CURRENT 2012 I.B.C.	ORIGINAL U.B.C.	CURRENT 2012 I.B.C.
BUS STORAGE	B-1	F-1 MODERATE HAZARD	TYPE II - F.R.	TYPE II - A
ADMINISTRATION	B-2	B	TYPE II - N.	TYPE II - B
MAINTENANCE	H-4 AND H2	S-1	TYPE II - F.R.	TYPE II - A

MATERIALS LEGEND

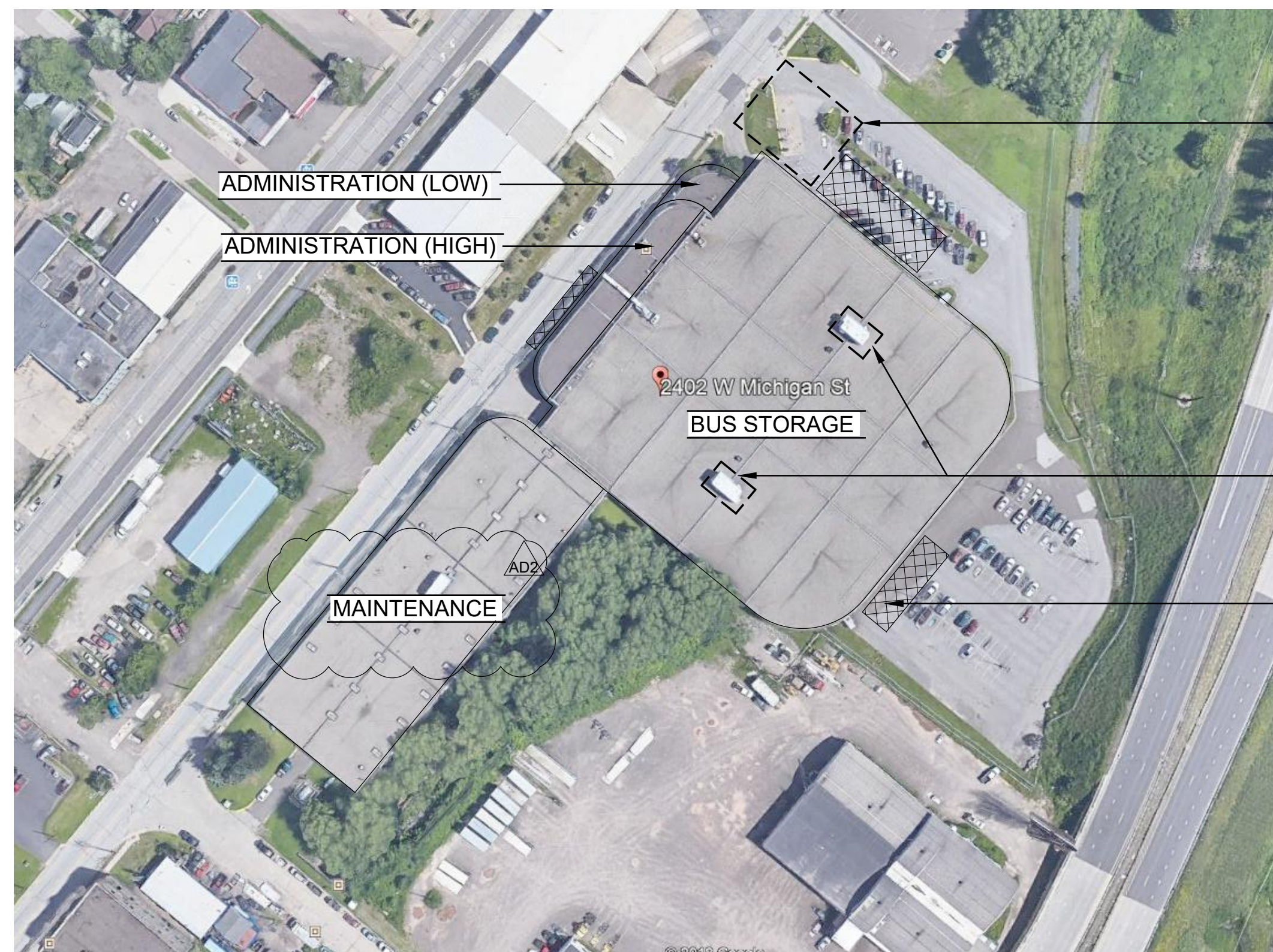


SYMBOLS LEGEND



SITE MAP

NO SCALE



APPROXIMATE LOCATION OF 2020 INDEPENDENT PROJECT FOR BELOW GROUND FUEL TANKS. COORDINATE WITH OWNER

MODIFICATIONS TO MECHANICAL UNITS TYPE 2 (MU2) INDEPENDENT OF REROOFING TO OCCUR IN 2019. NO ROOF MEMBRANE OR FLASHING IMPACT. COORDINATE WITH OWNER

STORAGE AND STAGING ARE (TYP) COORDINATE LOCATION WITH OWNER

AERIAL VIEW

NO SCALE



Consultants:

Signature:

I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULUTH LICENSED ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA.

SIGNATURE: *Gary C. Patrick*
 TYPED OR PRINTED NAME: GARY C. PATRICK
 DATE: 4-11-19 REGISTRATION NO.: 22295

Issues and revisions:

ISSUE LEVEL / REVISION:	DATE:	No.:
BID SET	4/11/2019	
ADDENDUM #2	10/8/2019	AD2

Client:

DULUTH TRANSIT AUTHORITY

Project title:

2019 PARTIAL REROOFING OPERATIONS CENTER

2402 W MICHIGAN ST.
DULUTH, MN 55806

Sheet content:

TITLE SHEET

DATE: 4/11/2019
 CLIENT PROJECT No.:
 INSPEC PROJECT No.: 214706.1
 PROJECT MGR: DM
 DRAWN BY: RJM
 CHECKED BY: DM

Sheet No.: