



**SUBASTA FORMAL NÚM. 45-2223-003
REMODELACIÓN Y ROTULACIÓN DE PARADAS**

PLANOS RUTA 9

BUS STOP SIGNAGE PROJECT - PHASE 1

ROUTE 9 | BUS STOPS

SCHEDULE OF DRAWING

SHEET NO.	DRAWING NO.	DESCRIPTION
1	TI-1	TITLE SHEET
2	GR-1.01	INDEX SHEET: ROUTE 9 BUS STOPS
3	MOT-1.01	MAINTENANCE OF TRAFFIC: NOTES AND DETAILS
4	MOT-1.02	MAINTENANCE OF TRAFFIC DETAILS
5	MOT-1.03	MAINTENANCE OF TRAFFIC DETAILS
6	MOT-1.04	MAINTENANCE OF TRAFFIC DETAILS

ROUTE 9 | FROM CUPEY STATION TO SAN JUAN TERMINAL

7 - 38 TS-1.01 TO TS-1.32: ROUTE 9 | BUS STOPS

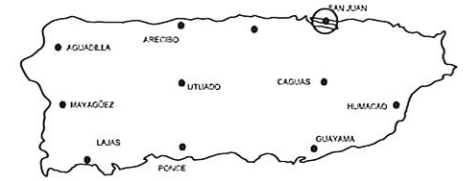
ROUTE 9 | FROM SAN JUAN TERMINAL TO CUPEY STATION

39 - 73 TS-2.01 TO TS-2.35: ROUTE 9 | BUS STOPS

74 - 89 TS-3.01 TO TS-3.16: TRAFFIC SIGNS DETAILS



MUNICIPALITY OF SAN JUAN
LOCALIZACION 1:20,000



AUTORIDAD
METROPOLITANA DE
AUTOBUSES



FROM CUPEY TERMINAL TO COVADONGA TERMINAL
HIGHWAY PR-1, PR-27, PR-36, PR-35 & DEL TREN STREET
MUNICIPALITY OF SAN JUAN

NOTE:
ALL WORK ON THIS PROJECT SHALL BE PERFORMED AND ALL MATERIALS SHALL BE IN SUBSTANTIAL CONFORMITY WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND GENERAL PROVISIONS APPROVED BY THE PUERTO RICO HIGHWAY AND TRANSPORTATION AUTHORITY IN 2011



HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

Yo, Hernan E. Lopez Baez, Ingeniero Profesional, Lic. 18154PE, declaro que soy el autor de esta obra y que he cumplido con todas las obligaciones que me impone la Ley de Ejercicio de la Profesion de Ingeniero y la Ley de Ejercicio de la Profesion de Arquitecto. Asimismo, declaro que esta obra fue realizada en cumplimiento de lo establecido en el Reglamento de Ejercicio de la Profesion de Ingeniero y la Ley de Ejercicio de la Profesion de Arquitecto. Esta obra fue realizada en cumplimiento de lo establecido en el Reglamento de Ejercicio de la Profesion de Ingeniero y la Ley de Ejercicio de la Profesion de Arquitecto. Esta obra fue realizada en cumplimiento de lo establecido en el Reglamento de Ejercicio de la Profesion de Ingeniero y la Ley de Ejercicio de la Profesion de Arquitecto.

ENZO
engineering, psc.

PO BOX 3240, PH# 427
GUAYAMA, PR 00974
TEL: (787) 848-9200
LOPEZBAEZ@ENZOENR.COM

OWNER:



DRAWING TYPE:

TI-1

SHEET:

1 OF

69

ROUTE 9 | BUS STOPS


ROUTE 9: FROM CUPEY STATION TO SAN JUAN TERMINAL

NUMBER	SHEET	BUS STOP	BUS STOP LOCATION	MUNICIPALITY
CUPEY STATION				
7	TS-1.01	1	HIGHWAY PR-1 INT. JUAN PONCE DE LEÓN ST.	SAN JUAN
8	TS-1.02	2	BARBOSA AVENUE BEFORE JOSÉ DE DIEGO AVE.	SAN JUAN
9	TS-1.03	3	BARBOSA AVENUE INT. ROBLES ST.	SAN JUAN
10	TS-1.04	4	BARBOSA AVENUE AFTER OPPOSITE SIDE OF GÁNDARA AVE.	SAN JUAN
11	TS-1.05	5	BARBOSA AVENUE OPPOSITE SIDE OF 2 ST.	SAN JUAN
12	TS-1.06	6	BARBOSA AVENUE BEFORE CREUZ ST.	SAN JUAN
13	TS-1.07	7	BARBOSA AVENUE AFTER GERONA ST. (FRONT MOPAR)	SAN JUAN
14	TS-1.08	8	BARBOSA AVENUE BEFORE OPPOSITE SIDE OF CAROLINA ST.	SAN JUAN
15	TS-1.09	9	BARBOSA AVENUE AFTER SICILIA ST.	SAN JUAN
16	TS-1.10	10	BARBOSA AVENUE INT. TEXIDOR ST.	SAN JUAN
17	TS-1.11	11	BARBOSA AVENUE BEFORE JUAN PABLO DUARTE ST.	SAN JUAN
18	TS-1.12	12	BARBOSA AVENUE AFTER FRANKLIN D. ROOSEVELT AVE.	SAN JUAN
19	TS-1.13	13	BARBOSA AVENUE BEFORE CONSTITUCIÓN ST.	SAN JUAN
20	TS-1.14	14	BARBOSA AVENUE BEFORE BORINQUEN AVE.	SAN JUAN
21	TS-1.15	15	BORINQUEN AVENUE INT. HAYDEÉ REXACH ST.	SAN JUAN
22	TS-1.16	16	BORINQUEN AVENUE BEFORE MORELL CAMPOS ST.	SAN JUAN
23	TS-1.17	17	BORINQUEN AVENUE INT. WILLIAMS ST.	SAN JUAN
24	TS-1.18	18	BORINQUEN AVENUE BEFORE CORTUO ST.	SAN JUAN
25	TS-1.19	19	BORINQUEN AVENUE OPPOSITE SIDE OF 13 ST.	SAN JUAN
26	TS-1.20	20	BORINQUEN AVENUE BEFORE HÉCTOR URDANETA	SAN JUAN
27	TS-1.21	21	BORINQUEN AVENUE INT. SEVERO QUIÑONES ST.	SAN JUAN
28	TS-1.22	23	ONLY LANE MANUEL FERNÁNDEZ JUNCOS AVE. AFTER JORDÁN ST.	SAN JUAN
29	TS-1.23	24	ONLY LANE MANUEL FERNÁNDEZ JUNCOS AVE. AFTER SAN JORGE ST.	SAN JUAN
30	TS-1.24	25	ONLY LANE MANUEL FERNÁNDEZ JUNCOS AVE. BEFORE VÍCTOR LÓPEZ	SAN JUAN
31	TS-1.25	26	ONLY LANE MANUEL FERNÁNDEZ JUNCOS AVE. BEFORE LLOVERAS ST.	SAN JUAN
32	TS-1.26	27	ONLY LANE MANUEL FERNÁNDEZ JUNCOS AVE. BEFORE HIPÓDROMO ST.	SAN JUAN
33	TS-1.27	28	ONLY LANE MANUEL FERNÁNDEZ JUNCOS AVE. FRONT AGRICULTURE DEPARTMENT	SAN JUAN
34	TS-1.28	29	ONLY LANE MANUEL FERNÁNDEZ JUNCOS AVE. INT. ROBERTO H. TOOD AVE. (PARADA 18)	SAN JUAN
35	TS-1.29	30	ONLY LANE MANUEL FERNÁNDEZ JUNCOS AVE. BEFORE MONSERRATE ST.	SAN JUAN
36	TS-1.30	31	ONLY LANE MANUEL FERNÁNDEZ JUNCOS AVE. INT. CERRA ST.	SAN JUAN
37	TS-1.31	32	ONLY LANE MANUEL FERNÁNDEZ JUNCOS AVE. INT. LA PAZ ST.	SAN JUAN
38	TS-1.32	33	ONLY LANE MANUEL FERNÁNDEZ JUNCOS AVE. AFTER MIRAMAR ST.	SAN JUAN
SAN JUAN TERMINAL				

ROUTE 9: FROM SAN JUAN TERMINAL TO CUPEY STATION

NUMBER	SHEET	BUS STOP	BUS STOP LOCATION	MUNICIPALITY
SAN JUAN TERMINAL				
39	TS-2.01	9	MANUEL FERNÁNDEZ JUNCOS AVE. AFTER BALDORIO DE CASTRO BULEVAR	SAN JUAN
40	TS-2.02	10	MANUEL FERNÁNDEZ JUNCOS AVE. BEFORE MIRAMAR ST.	SAN JUAN
41	TS-2.03	11	MANUEL FERNÁNDEZ JUNCOS AVE. INT. ESTADO ST.	SAN JUAN
42	TS-2.04	12	MANUEL FERNÁNDEZ JUNCOS AVE. BEFORE SUAU ST.	SAN JUAN
43	TS-2.05	13	MANUEL FERNÁNDEZ JUNCOS AVE. BEFORE SAN JUAN ST.	SAN JUAN
44	TS-2.06	14	MANUEL FERNÁNDEZ JUNCOS AVE. BEFORE ROBERTO H. TOOD ST.	SAN JUAN
45	TS-2.07	15	MANUEL FERNÁNDEZ JUNCOS AVE. FRONT HEALTH DEPARTMENT	SAN JUAN
46	TS-2.08	16	MANUEL FERNÁNDEZ JUNCOS AVE. AFTER HIPÓDROMO ST.	SAN JUAN
47	TS-2.09	17	MANUEL FERNÁNDEZ JUNCOS AVE. BEFORE PAVIA ST.	SAN JUAN
48	TS-2.10	18	MANUEL FERNÁNDEZ JUNCOS AVE. BEFORE VÍCTOR LÓPEZ ST.	SAN JUAN
49	TS-2.11	19	MANUEL FERNÁNDEZ JUNCOS AVE. INT. SAN JORGE ST.	SAN JUAN
50	TS-2.12	20	MANUEL FERNÁNDEZ JUNCOS AVE. BEFORE MAYOL ST.	SAN JUAN
51	TS-2.13	21	MANUEL FERNÁNDEZ JUNCOS AVE. AFTER JORDÁN ST.	SAN JUAN
52	TS-2.14	22	HAYDEÉ REXACH AVENUE BEFORE JUAN PONCE DE LEÓN AVE.	SAN JUAN
53	TS-2.15	23	BORINQUEN AVENUE INT. SAN ANTONIO ST.	SAN JUAN
54	TS-2.16	24	BORINQUEN AVENUE AFTER 8 ST.	SAN JUAN
55	TS-2.17	25	BORINQUEN AVENUE BEFORE FELIPE GOYCO ST.	SAN JUAN
56	TS-2.18	26	BORINQUEN AVENUE AFTER CORTUO ST.	SAN JUAN
57	TS-2.19	27	BORINQUEN AVENUE BEFORE WILLIAMS ST.	SAN JUAN
58	TS-2.20	28	BORINQUEN AVENUE BEFORE CARACAS ST.	SAN JUAN
59	TS-2.21	29	BORINQUEN AVENUE INT. BARBOSA AVE.	SAN JUAN
60	TS-2.22	30	BARBOSA AVENUE BEFORE HAYDEÉ REXACH AVE.	
61	TS-2.23	31	BARBOSA AVENUE INT. F ST.	SAN JUAN
62	TS-2.24	32	BARBOSA AVENUE BEFORE FRANKLIN D. ROOSEVELT AVE.	SAN JUAN
63	TS-2.25	33	BARBOSA AVENUE BEFORE OPPOSITE SIDE OF PALESTINA ST.	SAN JUAN
64	TS-2.26	34	BARBOSA AVENUE AFTER FRANCIA ST.	SAN JUAN
65	TS-2.27	35	BARBOSA AVENUE BEFORE AMÉRICA ST.	SAN JUAN
66	TS-2.28	36	BARBOSA AVENUE AFTER CAROLINA ST.	SAN JUAN
67	TS-2.29	37	BARBOSA AVENUE OPPOSITE SIDE OF GERONA ST.	SAN JUAN
68	TS-2.30	38	BARBOSA AVENUE AFTER OPPOSITE SIDE OF CREUZ ST. (MIGUEL SUCH SCHOOL)	SAN JUAN
69	TS-2.31	39	BARBOSA AVENUE AFTER UPR'S ENTRANCE	SAN JUAN
70	TS-2.32	40	BARBOSA AVENUE BEFORE GÁNDARA ST.	SAN JUAN
71	TS-2.33	41	BARBOSA AVENUE AFTER ROBLES ST. (CAPETILLO)	SAN JUAN
72	TS-2.34	42	BARBOSA AVENUE BEFORE 65TH INFANTERÍA AVE.	SAN JUAN
73	TS-2.35	43	HIGHWAY PR-1 OPPOSITE SIDE OF PONCE DE LEÓN AVENUE (PR-8839)	SAN JUAN
CUPEY STATION				

Se permite el uso limitado de este documento para fines académicos o de investigación de la información contenida en este documento. No se permite su reproducción o distribución para fines comerciales. La información contenida en este documento es de carácter confidencial y su divulgación puede ser perjudicial para la seguridad nacional.


HERNÁN E. LÓPEZ BALZ
 INGENIERO
 CONSTRUCTOR
 LIC. 1974
 PUERTO RICO
 PO Box 3040, PMB 427
 GUAYAMA, PR 00778
 TEL. (787) 649-6200 | LOPEZBALZ@ZODROOPLC.COM

BUS STOP SIGNAGE PROJECT - PHASE 1
INDEX SHEET: ROUTE 9 | BUS STOPS
 FROM CUPEY TERMINAL TO COVADONGA TERMINAL
 MUNICIPALITY OF SAN JUAN

AUTOPUERTO
METROPOLITANA DE
AUTOBUSES


METROPOLITANA BUS AUTHORITY
 BOX 115349
 SAN JUAN, PR 00919-5349

REVISION
 DATE: JUNE 2022
 CHECKED BY: ABZ
 DRAWN BY: ABZ
 DWG. TYPE: SHEET NO. 2 OF 69
 GR-1.01

ROUTE 9 | BUS STOPS

GENERAL NOTES:

1. NO WORK OTHER THAN MOBILIZATION, TRAFFIC CONTROL, AND PROJECT FIELD OFFICE, SHALL BE PERFORMED UNTIL THE PROGRESS SCHEDULE IS APPROVED BY THE ENGINEER.
2. ALL TEMPORARY CONTROL DEVICES SHALL COMPLY WITH THE SUPPLEMENTAL SPECIFICATION K408.01A - MAINTENANCE AND PROTECTION OF TRAFFIC OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2015 EDITION.
3. EQUIPMENT, MATERIALS AND OTHER DEVICES USED FOR CONSTRUCTION SHALL BE REMOVED FROM THE ROADWAY AFTER WORK HOURS AND SHALL BE STAGED A MINIMUM OF 10 METERS FROM THE TRAVEL WAY.
4. THE DRUM SPACING SHALL BE 5 METERS.
5. ANY ALTERATION TO THE SCHEDULE THAT MAY IMPROVE TRAFFIC OPERATIONS WITHIN THE CONSTRUCTION AREA, IN ACCORDANCE WITH THE CURRENT MUTCD AND WITH NO ADDITIONAL COST TO THE AUTHORITY, SHALL BE SUBMITTED TO THE ENGINEER AT LEAST TWENTY ONE (21) CALENDAR DAYS IN ADVANCE TO THE PROPOSED DATE OF IMPLEMENTATION FOR REVIEW. IF THE PROPOSED ALTERATION IS APPROVED IT SHALL BE IMPLEMENTED AS DIRECTED BY THE ENGINEER.
6. THE CONTRACTOR CAN PERFORM, WITH THE APPROVAL OF THE ENGINEER, SEVERAL SIMULTANEOUS ACTIVITIES WITHIN A STAGE, AND AS PERMITTED BY THE CONTRACT PROPOSAL QUANTITIES ON THE TRAFFIC CONTROL ITEMS.
7. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER THE INSTALLATION OF TEMPORARY TRAFFIC CONTROL DEVICES FOR EACH PHASE AT LEAST FOURTEEN (14) CALENDAR DAYS IN ADVANCE FOR THE RELEASE OF PUBLIC NOTICE. THE CONTRACTOR SHALL NOT COMMENCE ANY OF THE CONSTRUCTION PHASES WITHOUT A PUBLIC NOTICE ISSUED OR WITHOUT DIRECT CONSENT FROM THE ENGINEER.
8. THE CONTRACTOR SHALL FURNISH TEMPORARY TRAFFIC CONTROL DEVICES THAT MEET MCHRP 350 CRITERIA FOR THE APPLICABLE CRASH-WORTHINESS STANDARD.
9. ALL TRAFFIC CONTROL SIGNS DETERMINED BY THE ENGINEER TO BE UNNECESSARY FOR THE APPLICABLE CONSTRUCTION OPERATION SHALL BE IMMEDIATELY COVERED IN ITS ENTIRETY WITH NON-ABRASIVE MATERIAL AND SHALL BE INSPECTED DURING DAY AND NIGHT TIME TO ENSURE THAT THE SIGN IS NOT READABLE. THIS WORK IS A SUBSIDIARY OBLIGATION OF THE CONTRACT UNDER EXISTING PAY ITEMS.
10. DURING THE CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL TAKE ALL THE NECESSARY PRECAUTIONS AND MEASURES TO AVOID FALLING DEBRIS, TOOLS, EQUIPMENT OR ANY OTHER MATERIALS INTERFERE OR IMPACT THE MOVING PUBLIC IN THE ROADWAY. ALL THE MATERIALS, LABOR EQUIPMENT, AND WORK NECESSARY FOR IMPLEMENTING THIS REQUIREMENT IS SUBSIDIARY OBLIGATION OF THE CONTRACT UNDER EXISTING PAY ITEMS.
11. THE CONTRACTOR SHALL MAINTAIN ACCESS AT ALL TIMES TO ADJACENT PROPERTIES DURING CONSTRUCTION. THIS WORK WILL REQUIRE COORDINATION WITH BUSINESSES AND PRIVATE OWNERS. ALL THE MATERIALS, LABOR EQUIPMENT, AND WORK NECESSARY FOR IMPLEMENTING THIS REQUIREMENT IS SUBSIDIARY OBLIGATION OF THE CONTRACT UNDER EXISTING PAY ITEMS.
12. TEMPORARY CONCRETE BARRIER SHOULD HAVE AN OFF-SET END SECTION AS APPROVED BY THE ENGINEER.
13. NO EXCAVATION AND/OR PAVEMENT DROP-OFF SHALL REMAIN OPEN WITHIN THE TRAVELED WAY WHEN THE CONTRACTOR OR ITS PERSONNEL IS NOT WORKING AND PHYSICALLY PRESENT AT THE WORK SITE.

CONSTRUCTION SCHEDULE:

FOR THE CONSTRUCTION OPERATIONS FOR THE IMPROVEMENTS AND SIGNAGE AT THE BUS STOPS OF THE PRMSA FROM COVADONGA TERMINAL TO CUPEY STATION, INCLUDING PR-35, PR-36, PR-37, DEL TIEN STREET AND PR-1 IN THE MUNICIPALITY OF SAN JUAN. THE FOLLOWING CONSTRUCTION SCHEDULE AND BASIC SAFETY PROCEDURES SHALL BE FOLLOWED IN ORDER TO MAINTAIN TRAFFIC FLOW WITH THE LEAST POSSIBLE INTERFERENCE FROM THE WORK. ANY ALTERATIONS TO THIS SCHEDULE, SHALL BE SUBMITTED IN WRITING TO THE EXECUTIVE DIRECTOR FOR FINAL APPROVAL PRIOR TO EXECUTION.

TYPICAL DETAILS ARE SUBMITTED FOR THE TEMPORARY TRAFFIC CONTROL ACTIVITIES FOR A VARIETY OF SITUATIONS COMMONLY ENCOUNTERED. IT IS REQUIRED FROM THE ENGINEER TO ADJUST THESE GUIDELINES TO FIELD CONDITIONS. ALSO A MAINTENANCE OF TRAFFIC IS INCLUDED FOR EACH ONE OF THE RAMP THAT REQUIRE A PARTIAL CLOSURE DURING THE PAVEMENT AND BRIDGE DECK REHABILITATION.

TRAFFIC FLOW:

1. THE TRAFFIC FLOW WILL BE FOLLOWING AS INDICATED ON THE TYPICAL DETAIL USED FOR THE CONSTRUCTION AREA.
2. ALL WORKS FOR THIS PROJECT, EXCEPT THE ACTIVITIES THAT REQUIRE THE FULL DEPTH EXCAVATION FOR THE REMOVAL OF THE FOUNDATION OF THE TRAFFIC SIGNS OR PARTIAL REMOVAL OF THE FOUNDATION OF THE TRAFFIC SIGNS OR THE CLOSURE OF A TRAFFIC LANE FOR AT LEAST ONE DAY, SHALL BE PERFORMED DURING THE NIGHT, FROM MONDAY TO THURSDAY BETWEEN 8:30 PM TO 4:30 AM. ALL TRAVELED LANES SHALL BE OPENED TO THE TRAFFIC DURING THE DAY HOURS.
3. ALL WORKS FOR THIS PROJECT, EXCEPT THE ACTIVITIES THAT REQUIRE THE FULL DEPTH EXCAVATION FOR THE REMOVAL OF THE FOUNDATION OF THE TRAFFIC SIGNS OR PARTIAL REMOVAL OF THE FOUNDATION OF THE TRAFFIC SIGNS OR THE CLOSURE OF A TRAFFIC LANE FOR MORE THAN ONE DAY, SHALL BE PERFORMED DURING WEEKENDS, FROM FRIDAY AT 6:30 PM TO MONDAY AT 4:30 AM.
5. ALL PROPOSED ACTIVITIES FOR THE PROJECT, WHICH AFFECTS THE NORMAL FLOW OF THE BUSES OWN BY THE PRMSA, SHALL BE COORDINATE WITH THE PRMSA PERSONNEL.
6. ALL CONSTRUCTION SIGNS SHALL BE REMOVED AFTER CONSTRUCTION DAY ENDS.

PHASES:

1. INSTALL TEMPORARY SAFETY DEVICES AND CONSTRUCTION SIGNS AS INDICATED ON PLANS.
2. THE INSTALLATION OPERATIONS SHALL BE PERFORMED WITHOUT THE MINIMUM INTERFERENCE TO TRAFFIC FLOW.
3. TRAFFIC MOVEMENT ON EXISTING ROADWAY.
4. REMOVAL OF EXISTING SIGNS AND POSTS IN THE BUS STOPS.
5. INSTALL THE BUS STOPS SIGNS, POSTS AND SITE IMPROVEMENTS.
6. REMOVE ALL THE CONSTRUCTION SIGNS AND SAFETY DEVICES AT THE COMPLETION OF THE WORK DAYS.

SIGNS COLORS		
SIGN CODES	BACKGROUND	LEGEND BORDER
W214, G20-214, W207A, W208	FLUORESCENT ORANGE	NON REFLECTIVE BLACK
R1-1	REFLECTIVE RED	REFLECTIVE WHITE

Yo autorizo a Lopez Baez Ingenieros, S.L. para que actúe como representante legal y responsable de la obra, en el cumplimiento de las obligaciones que le corresponden de acuerdo con el Reglamento de la Ley de Obras Públicas y Construcción, en el ámbito de la Autoridad Metropolitana de Autobuses, para la ejecución de las obras de mejora y mantenimiento de las paradas de autobuses en la Ruta 9, en el Municipio de San Juan, P.R.

E.N.Z.O.
engineering, psc.

PO Box 3040, PHB #27
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZORGROUP.LLC



HERNANDEZ LOPEZ BAEZ, PE MEM
LIC. 1349

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9
MAINTENANCE OF TRAFFIC: NOTES AND DETAILS

FROM COVADONGA TERMINAL TO CUPEY STATION
MUNICIPALITY OF SAN JUAN

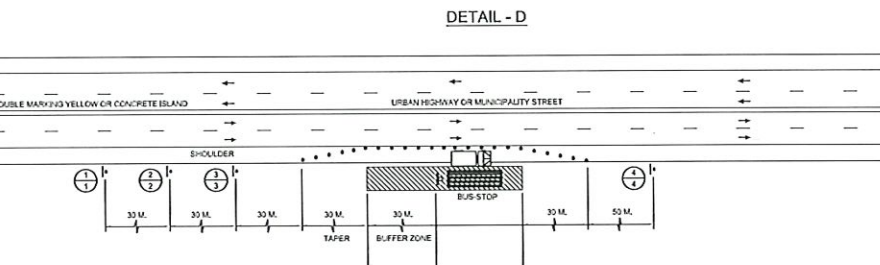
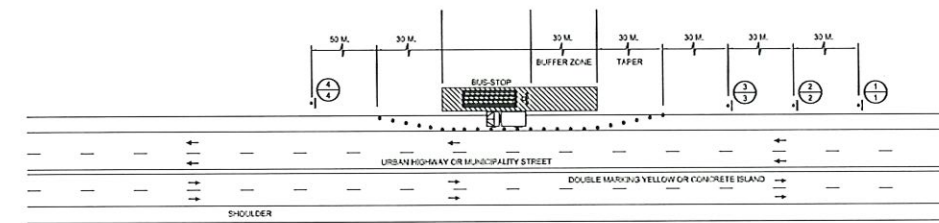
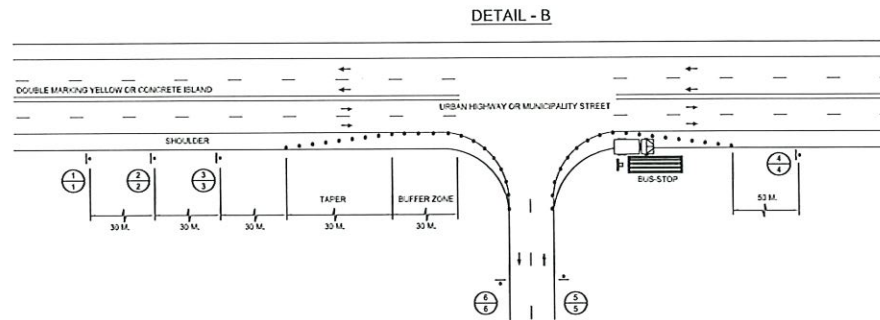
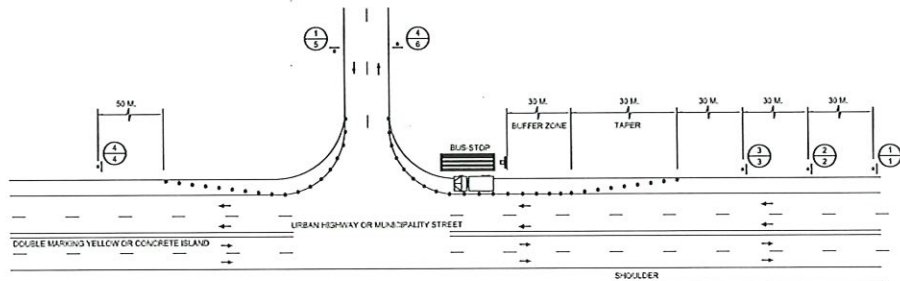
AUTORIZADO
METROPOLITANA DE
AUTOBUSES



METROPOLITAN BUS AUTHORITY
BOX 100419
SAN JUAN, PR 00918-0419

REVISION	
DATE:	JUNE 2022
CHECKED BY:	BEV
DWG. TYPE:	LOT-1.01
DRAW BY:	ABZ
SHEET NO.:	3
OF	89

ROUTE 9 | BUS STOPS



- LEGEND:**
- TRAFFIC FLOW
 - TEMPORARY TRAFFIC SIGN (MOUNTED ON WOOD PORTABLE SUPPORT)
 - TEMPORARY SIGN IDENTIFICATION
 - X = CODE NUMBER
 - Y = LOCATION NUMBER
 - RETROREFLECTIVE PLASTIC DRUMS (3.00 MTS. SPACING) SEE VPT 1, FHWA STANDARD DRAWINGS
 - WORKING TRUCK

Yo autorizo, E. Lopez Baez, Ingeniero, Montado Nº 55, en virtud de mi cargo de profesional que se encuentra debidamente inscrito en el Registro de Inge-nieros del Departamento de San Juan, P.R., a todos los señalamientos que en este dibujo se indican, a ser colocados y mantenidos en su lugar por los señalamientos de tráfico del Departamento de San Juan, P.R. Los señalamientos de tráfico que se indican en este dibujo son de carácter preventivo y no tienen efecto de sanción. Los señalamientos de tráfico que se indican en este dibujo son de carácter preventivo y no tienen efecto de sanción. Los señalamientos de tráfico que se indican en este dibujo son de carácter preventivo y no tienen efecto de sanción.

E.N.Z.O.
engineering, psc.

PO BOX 3040, PMB 427
CARRASO, P.R. 00778

TEL: (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNÁNDEZ LÓPEZ BAEZ
INGENIERO EN INGENIERÍA
CARRASO, P.R. 00778

HERNÁNDEZ LÓPEZ BAEZ, P.E. MEM
LIC. 1-1549

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9
MAINTENANCE OF TRAFFIC DETAILS
FROM COVADONGA TERMINAL TO CUPEY STATION
MUNICIPALITY OF SAN JUAN

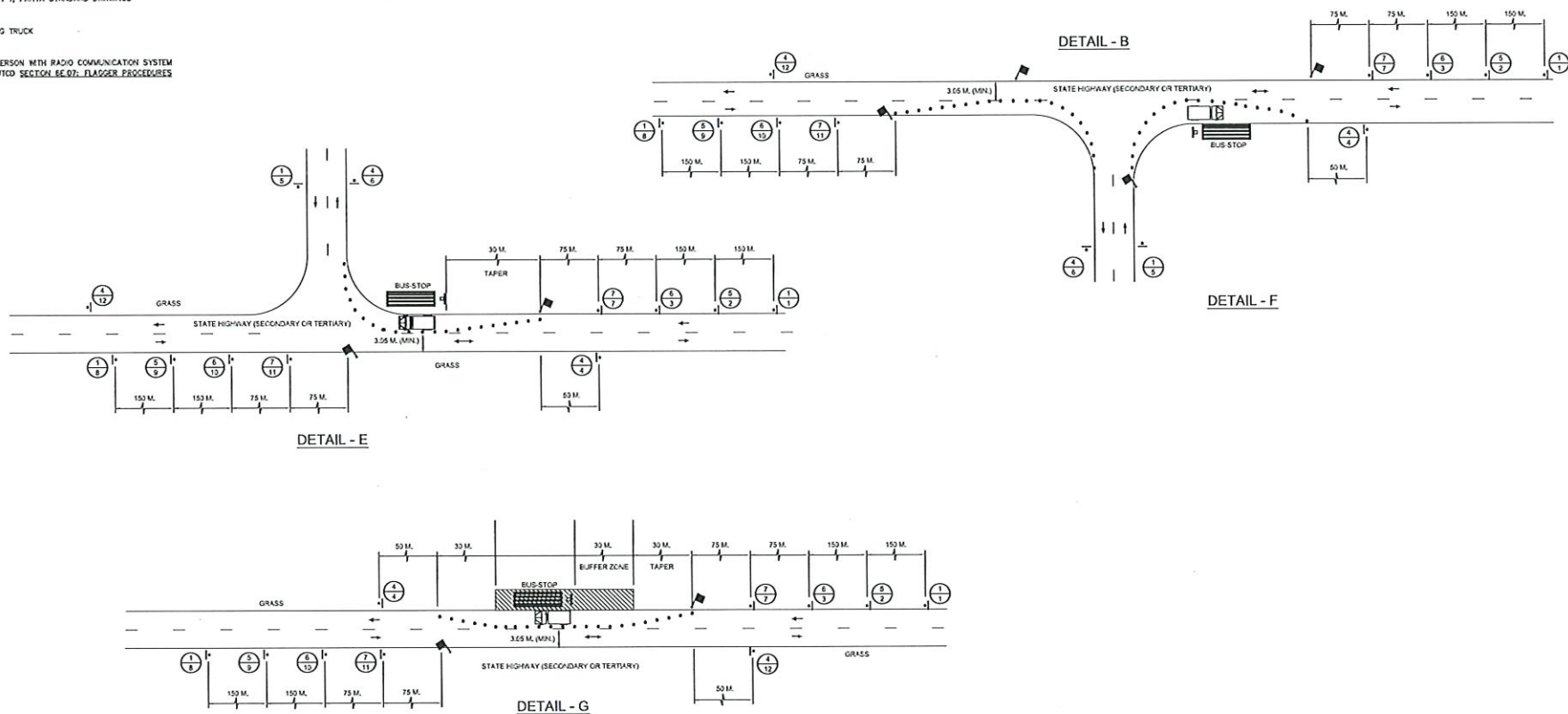
METROPOLITANA DE AUTOBUSES

AUTOMÓVIL

METROPOLITAN BUS AUTHORITY BOX 105419 SAN JUAN, P.R. 00918-5349		REVISION	
DATE: JUNE 2022		CHECKED BY:	
BEV	ABZ	DRAWN BY:	ABZ
DWG. TYPE:	MOT-1.02	SHEET NO.:	4 OF 9

ROUTE 9 | BUS STOPS

- LEGEND:**
- ← TRAFFIC FLOW
 - ⊕ TEMPORARY TRAFFIC SIGN (MOUNTED ON WOOD PORTABLE SUPPORT)
 - ⊕ TEMPORARY SIGN IDENTIFICATION
X = CODE NUMBER
Y = LOCATION NUMBER
 - ... RETROREFLECTIVE PLASTIC DRUMS (300 WTS. SPACING)
SEE WPT 1, FHWA STANDARD DRAWINGS
 - WORKING TRUCK
 - ⚡ FLAG PERSON WITH RADIO COMMUNICATION SYSTEM
SEE MUTCD SECTION 6E.07, FLAGGER PROCEDURES



Yo, el/los abajo firmante/s, declaro/declaramos que soy el/los profesional/es que redacté este/s proyecto/s y/o planos, que conozco bien las especificaciones técnicas de los planos que he redactado y me responsabilizo de su cumplimiento con los dispositivos aplicables del Reglamento General de Circulación y de las Normas de Construcción de Obras de la Agencia de Regulación y Control de los Transportes Públicos de San Juan. Asimismo, declaro que conozco bien las especificaciones técnicas de los planos que he redactado y me responsabilizo de su cumplimiento con los dispositivos aplicables del Reglamento General de Circulación y de las Normas de Construcción de Obras de la Agencia de Regulación y Control de los Transportes Públicos de San Juan.

EN·Z·O.
engineering, psc.
PO BOX 3040, PMB 427
SUN JUAN, PR 00978
TEL. (787) 649-6200 | LOPEZBAEZ@ENZORPULLC.ORG



BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9
MAINTENANCE OF TRAFFIC DETAILS
FROM COVADONGA TERMINAL TO CUPEY STATION
MUNICIPALITY OF SAN JUAN

AUTORIDAD
METROPOLITANA DE
AUTOBUSES



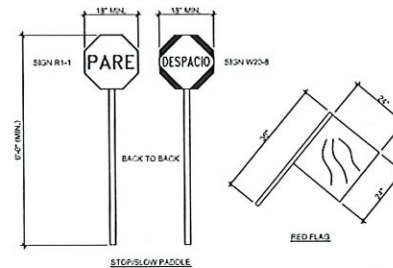
METROPOLITAN BUS AUTHORITY
BOX 185313
SAN JUAN, PR 00918-5313

REVISION	
DATE: JUNE 2022	DRAW BY:
CHECKED BY: BEV	ABZ
DWG. TYPE: MOT-1.03	SHEET NO. 5 OF 89

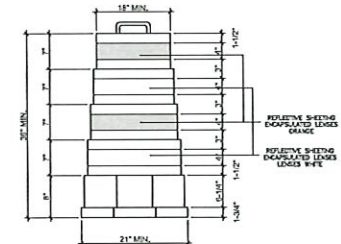
ROUTE 9 | BUS STOPS

TEMPORARY SIGN DATA

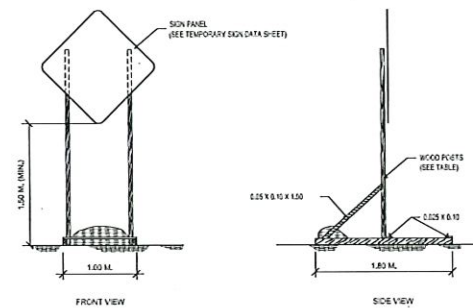
CODE NUMBER	LOCATION NUMBER	SIGN CODE	LEGEND	SIZE OF SIGN PANELS	OVER-HEAD STRUCTURE TYPE	REFERENCE MANUAL	TOTAL ITEM
1	1, 5	W21-4		30" x 30"	NA	SEE MUTCD 2009 EDITION	1
2	2	W21-4		30" x 30"	NA	SEE MUTCD 2009 EDITION	1
3	3	W21-4		30" x 30"	NA	SEE MUTCD 2009 EDITION	1
4	4, 6	Q0-24	TERMINA TRABAJO EN CARRETERA	30" x 24"	NA	SEE MUTCD 2009 EDITION	2
5	2, 9	W21-4		30" x 30"	NA	SEE MUTCD 2009 EDITION	2
6	3, 10	W21-4		30" x 30"	NA	SEE MUTCD 2009 EDITION	2
7	7, 11	W02-7A		30" x 30"	NA	SEE MUTCD 2009 EDITION	1
8	STOP/SLOW PADDOLE	R1-1 W20-8	 BACK TO BACK	18" x 18"	NA	LIGHT WEIGHT PADDOLE	1



HAND-SIGNALING DEVICES BY FLAGGERS
NOT TO SCALE



REFLECTORIZED PLASTIC DRUM



TEMPORARY WOOD PORTABLE SUPPORT
FOR CONSTRUCTION SIGNS
NOT TO SCALE

TEMPORARY WOOD PORTABLE SUPPORT TABLE

MT. X MT.	IN. X IN.	MAXIMUM SIGN PANEL AREA (SQUARE METERS)	
		1 POST	2 POSTS
0.13 X 0.10	4 X 4	1.00	2.00
0.13 X 0.15	4 X 6	N/A	3.00
0.15 X 0.15	6 X 6	N/A	4.50
0.15 X 0.20	6 X 8	N/A	8.00

Yo, Hernán E. López Baz, Ingeniero Civil No. 914, declaro que soy el profesional que autorizó esta obra y la presenté como propia y la supervisé durante su ejecución. Declaro, además, que esta obra fue autorizada por el MOPC en el marco de la Ley 684 de 2001 y la Ley 685 de 2001, que otorgan al MOPC la facultad de autorizar y supervisar obras de infraestructura vial en el ámbito de su competencia. Asimismo, declaro que esta obra fue autorizada por el MOPC en el marco de la Ley 684 de 2001 y la Ley 685 de 2001, que otorgan al MOPC la facultad de autorizar y supervisar obras de infraestructura vial en el ámbito de su competencia.

ENZO
engineering, psc.
PO BOX 3040, PMB 427
GUAYAMA, P.R. 00978
TEL. (787) 649-6200 | LOPEZBAZ@ENZODROUPLC.ORG



HERNÁN E. LÓPEZ BAZ, FEMEM
N.C. 14-89

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9
MAINTENANCE OF TRAFFIC DETAILS
FROM COVADONGA TERMINAL TO CUPEY STATION
MUNICIPALITY OF SAN JUAN

AUTORIDAD
METROPOLITANA DE
AUTOBUSES



METROPOLITAN BUS AUTHORITY
BOX 19549
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY:	DRAW BY:
BEV	ABZ
DWG. TYPE:	SHEET NO.
MOT-1.04	6 OF
	89

ROUTE 9 | BUS STOP #1



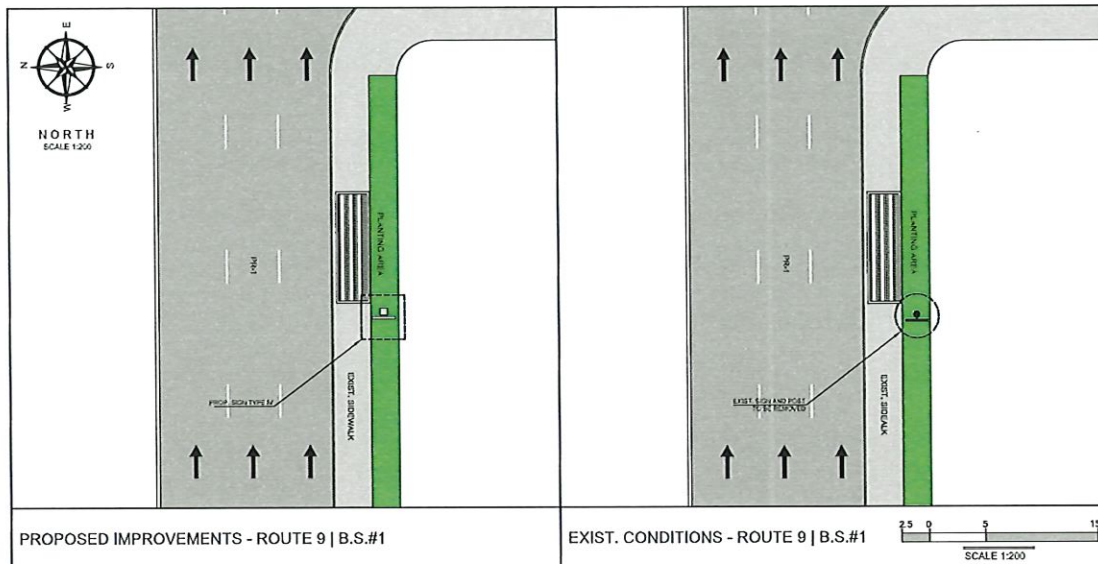
PHOTO - 1



PHOTO - 2



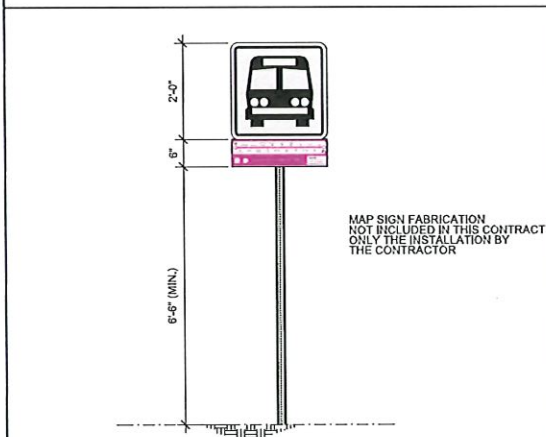
PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#1

EXIST. CONDITIONS - ROUTE 9 | B.S.#1

SCALE 1:200



PROPOSED SIGN TYPE IV

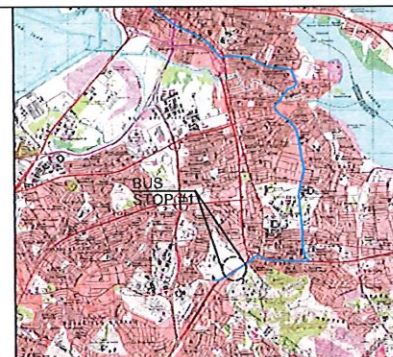
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRUSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EROSION CONTROL AND FIBER REINFORCING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE UNDER THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURES SHALL BE DELIVERED TO THE PROPER PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POLE FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVELS OF THE EXISTING ASPHALT UTILITIES IN THE AREA BEFORE THE SIGN PROCESSES.
6. THE WIDTH AND DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE AS SHOWN.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA REFER TO PHOTO #1.



LOCATION PLAN
SCALE 1:20,000

18°23'49.97\"/>



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

E.N.Z.O.
Engineering, psc.
PO BOX 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZODRUGPLLC.ORG



HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 91996

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #1

FROM CUPEY TO SAN JUAN
HIGHWAY PR-1 INT. JUAN PONCE DE LEÓN ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA
AUTORIDAD
AUTOBUSES



METROPOLITAN BUS AUTHORITY
BOX 156349
SAN JUAN, PR 00915-6349

REVISION	
DATE: JUNE 2022	DRAW BY:
CHECKED BY: BEV	ABZ
DWG. TYPE:	SHEET NO. 7 OF 7
TS-1.01	89

ROUTE 9 | BUS STOP #2



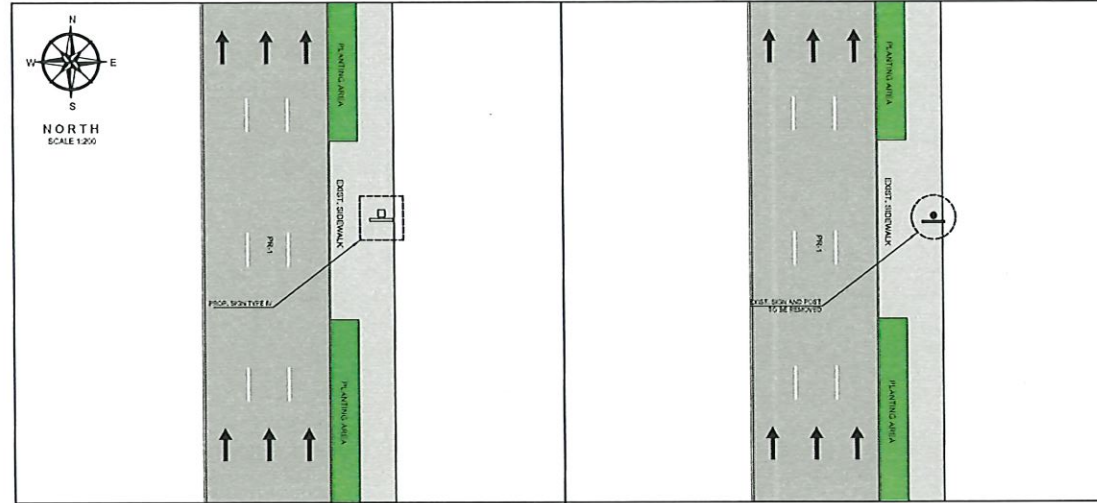
PHOTO - 1



PHOTO - 2

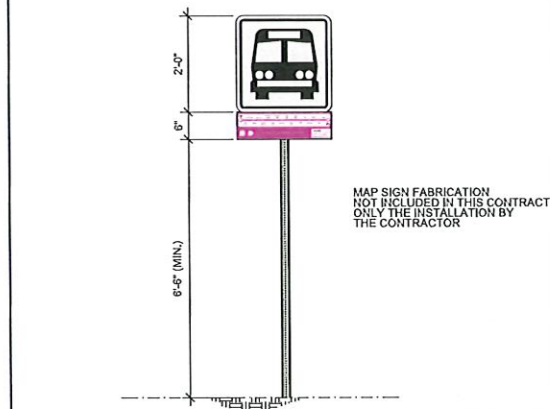
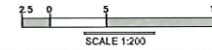


PHOTO - 3: PROPOSED SIGN LOCATION



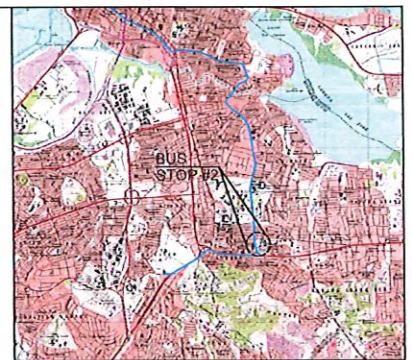
PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#2

EXIST. CONDITIONS - ROUTE 9 | B.S.#2



PROPOSED SIGN TYPE IV NOT TO SCALE

- LEGEND:**
- PROPO. SIGN TYPE I
 - PROPO. SIGN TYPE II
 - PROPO. SIGN TYPE III
 - PROPO. SIGN TYPE IV
 - EXIST. SIGN
 - PMBA EXCLUSIVE LANE (AMA LANE)
 - TRAFFIC DIRECTION
- NOTES:**
1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND TYPING PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
 2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
 3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGNS AND TRAFFIC POSTS. THESE STRUCTURES SHALL BE DELIVERED TO THE FURNISH PERSONNEL.
 4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
 5. THE CONTRACTOR SHALL INSTALL THE PROPOSED DESIGN IN THE DESIGNATED AREA, 20' AWAY BE CAUTION ADJACENT TO CURBS, REFER TO FIGURE 10.
 6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 6.00' W.



LOCATION PLAN 18°23'52.91"N, 66°23'55.91"W SCALE 1:20,000



AERIAL PHOTO SCALE 1:1,000 GOOGLE EARTH VERSION: 7.3.0.8542 PRO

E.N.Z.O.
engineering, psc.

PO Box 3040, PMB 427
Dorado, PR 00779
TEL. (787) 649-6200 | LOPEZBAEZ@ENZODRUPLLC.COM

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 10 5995

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #2

FROM CUPEY TO SAN JUAN
BARBOSA AVENUE BEFORE JOSÉ DE DIEGO AVE.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE
AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 156343
SAN JUAN, PR 00915-5349

REVISION	

DATE: JUNE 2022
CHECKED BY: BEV
DRAWN BY: ABZ
DWG. TYPE: TS-1.02
SHEET NO. 8
OF 89

Yo Hernan E. Lopez Baez, Ingeniero Profesional No. 105995, certifico que soy el profesional que verifico los planos y los datos de esta obra y los especificaciones complementarias. Tienen validez en tanto no se altera durante su ejecución ni se desvirtúa alguna de las disposiciones aplicables del Reglamento General de las Actividades Reguladas por la Inspección y Control de Construcción, Ley No. 10 de 1995, Artículo 10, inciso 1, párrafo 1. Asimismo, declaro que no soy el autor de la obra ni el responsable de ella. Acreditación No. 105995, inscrita en el Registro de Profesionales de la Ingeniería y Arquitectura, Ley No. 10 de 1995, Artículo 10, inciso 1, párrafo 1. Asimismo, declaro que no soy el autor de la obra ni el responsable de ella. Acreditación No. 105995, inscrita en el Registro de Profesionales de la Ingeniería y Arquitectura, Ley No. 10 de 1995, Artículo 10, inciso 1, párrafo 1.

ROUTE 9 | BUS STOP #3



PHOTO - 1



PHOTO - 2

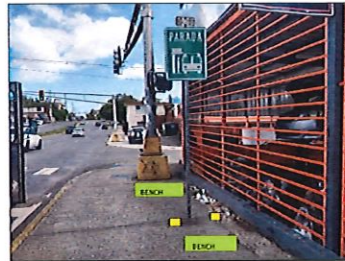
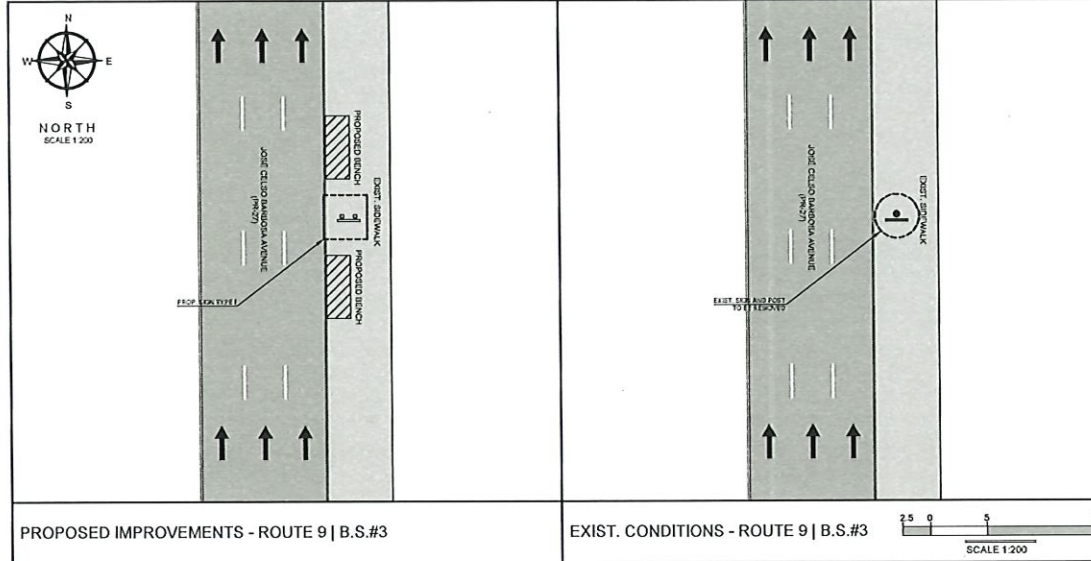
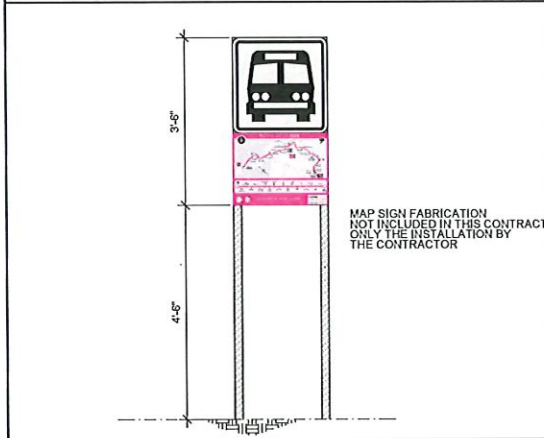
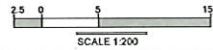


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#3

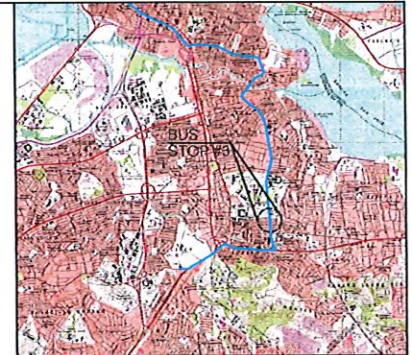
EXIST. CONDITIONS - ROUTE 9 | B.S.#3



PROPOSED SIGN TYPE I

NOT TO SCALE

- LEGEND**
- PROP. SIGN TYPE I
 - PROP. SIGN TYPE II
 - PROP. SIGN TYPE III
 - PROP. SIGN TYPE IV
 - EXIST. SIGN
 - FMSA EXCLUSION LANE (MAIN LANE)
 - TRAFFIC DIRECTION
 - PROPOSED BENCH
- NOTES**
1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION PERMITS AND PERMITS PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
 2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
 3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DELIVERED TO THE PRUSA PERSONNEL.
 4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
 5. THE CONTRACTOR SHALL INSTALL TWO BENCHES AND SIGN AS INDICATED. REFER TO PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#3 AND PHOTO #3.
 6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 6.0 M.



LOCATION PLAN
SCALE 1:20,000



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.6642 PRO

Yo, Hernán E. López Baez, Agente, número 18-156, certifico que soy el profesional que confeccioné, diseñé y preparé estos planos y los expedientes complementarios. Asimismo, certifico que a efectos que estos planos y expedientes sean válidos con las disposiciones aplicables del Reglamento General de Expedientes del Departamento de Obras Públicas y Construcción de la Autoridad Metropolitana de Autobuses y la Corporación Pública para el Transporte, Respetando que cualquier duda o comentario de los hechos que se haya producido por el descomulgamiento de los expedientes, yo soy el Agente a cargo de ellos, a partir de esta fecha, con el consentimiento de los señores responsables de cualquier acción judicial o extrajudicial por \$ 500.00.

E.N.Z.O.
Engineering, psc.
PO BOX 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOROUPLLC.COM

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #3
FROM CUPEY TO SAN JUAN
BARBOSA AVENUE INT. ROBLES ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY BOX 195349 SAN JUAN, PR 00918-5349	
DATE: JUNE 2022	REVISION
CHECKED BY: BEV	DRAWN BY: ABZ
DWG. TYPE: TS-1.03	SHEET NO. 9 OF 99

ROUTE 9 | BUS STOP #4



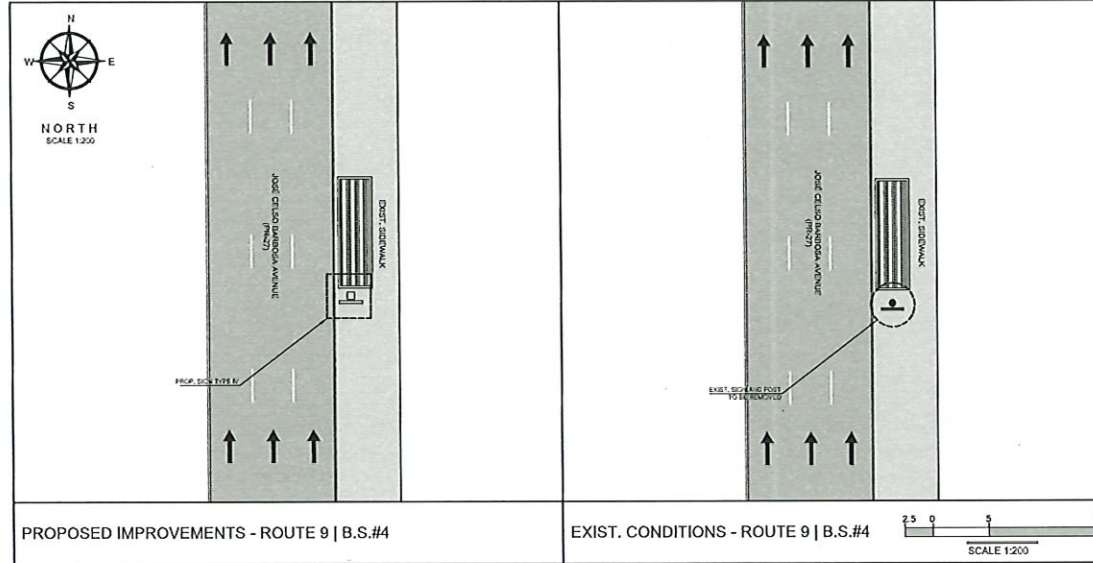
PHOTO - 1



PHOTO - 2

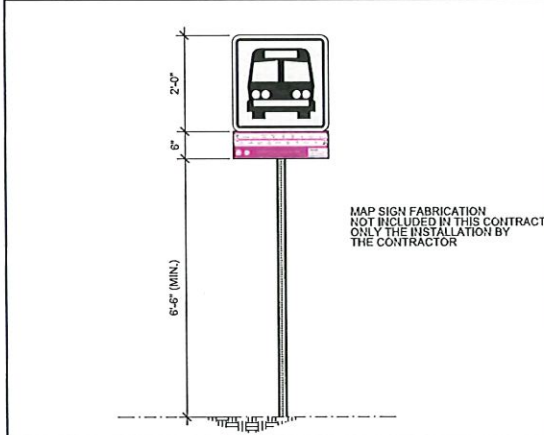


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#4

EXIST. CONDITIONS - ROUTE 9 | B.S.#4



PROPOSED SIGN TYPE IV

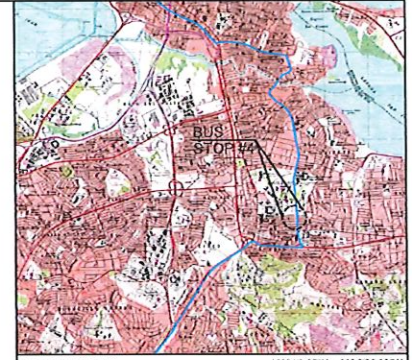
NOT TO SCALE

LEGEND:

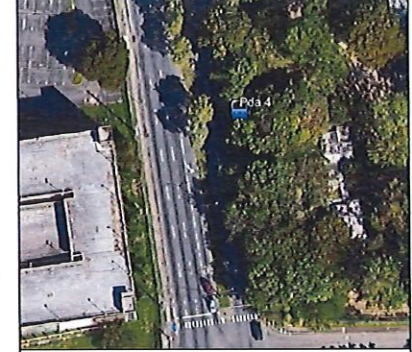
- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL DETAIL THE ERECTION, DEMOLITION AND TYPES RESULTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE UNDER THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POSTS. THESE STRUCTURES SHALL BE REPLACED TO THE PROPER POSITION.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING METAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 6'-0".
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN-BORDER AREA. REFER TO PHOTO 3.



LOCATION PLAN
SCALE 1:20,000
18°24'9.87\"/>



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo Hernán E. López Báez, Ingeniero, certifico que los planos y especificaciones de este proyecto de obra de construcción de señalización de paradas de autobuses en la Ruta 9, en el Municipio de San Juan, han sido elaborados por mí o por un profesional que trabaja bajo mi supervisión y responsabilidad profesional. Asimismo, certifico que los planos y especificaciones de este proyecto de obra de construcción de señalización de paradas de autobuses en la Ruta 9, en el Municipio de San Juan, han sido elaborados por mí o por un profesional que trabaja bajo mi supervisión y responsabilidad profesional. Asimismo, certifico que los planos y especificaciones de este proyecto de obra de construcción de señalización de paradas de autobuses en la Ruta 9, en el Municipio de San Juan, han sido elaborados por mí o por un profesional que trabaja bajo mi supervisión y responsabilidad profesional.

ENZO
Engineering, psc.
PO Box 3040, PMB 427
SURABO, PR 00778
TEL: (787) 649-5200 | LOPEZBAEZ@ENZOGRUPULLC.ORG

HERNÁN E. LOPEZ BAEZ
INGENIERO
LICENCIADO
10-1994
PUERTO RICO

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #4
FROM CUPEY TO SAN JUAN
BARBOSA AVENUE AFTER OPPOSITE SIDE OF GÁNDARA AVE.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	DRAWN BY:
CHECKED BY: BEV	SHEET NO. 10
DWG. TYPE:	OF
TS-1.04	89

ROUTE 9 | BUS STOP #5



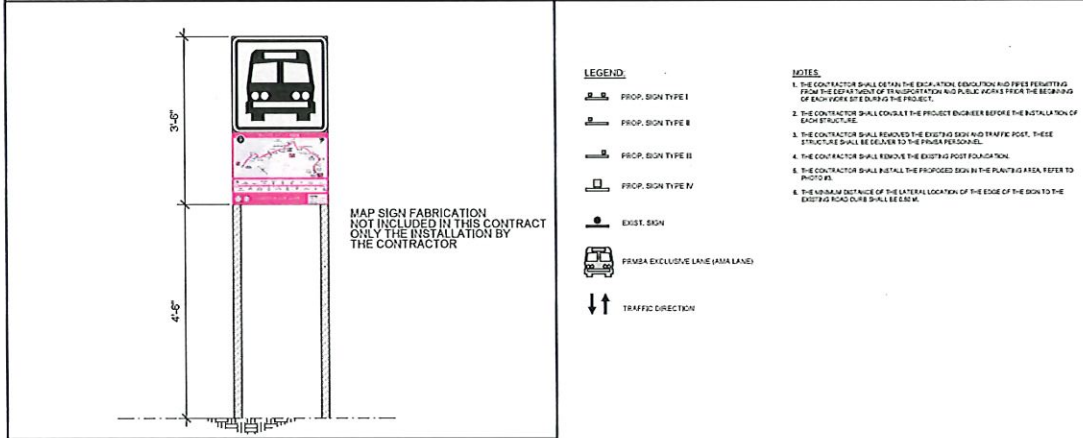
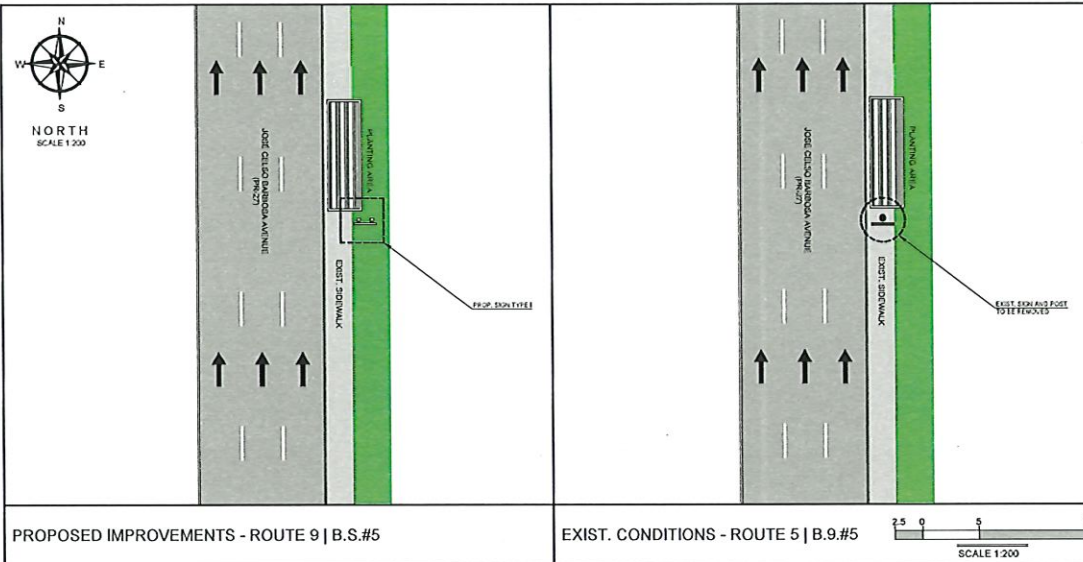
PHOTO - 1



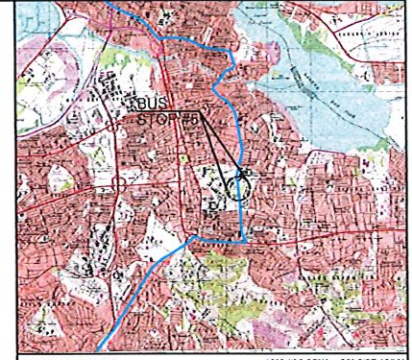
PHOTO - 2



PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED SIGN TYPE I NOT TO SCALE



AERIAL PHOTO SCALE 1:1,000 GOOGLE EARTH VERSION: 7.3.4.6642 PRO

ENZO
engineering, psc.
PO Box 3040, PMB 427
SUNABO, PR 00978
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #5
FROM CUPEY TO SAN JUAN
BARBOSA AVENUE OPPOSITE SIDE OF 2 ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD
METROPOLITAN BUS AUTHORITY
BOX 196349
SAN JUAN, PR 00919-6349

REVISION	
DATE	JUNE 2022
CHECKED BY	ABZ
DWG. TYPE	TS-105
SHEET NO.	11 OF 89

Yo, Hernán E. López Baez, Agente de la Ley 10-166, certifico que soy el profesional que confeccioné dichos planos y que soy el autor de los mismos. Asimismo, certifico que los planos y especificaciones adjuntas son las que se aprobaron en la Junta de Planeación Urbana y de Edificación del Municipio de San Juan, Puerto Rico, y que los mismos cumplen con los requisitos establecidos en el Reglamento de Planeación Urbana y de Edificación del Municipio de San Juan, Puerto Rico. Asimismo, certifico que los planos y especificaciones adjuntas son los que se aprobaron en la Junta de Planeación Urbana y de Edificación del Municipio de San Juan, Puerto Rico, y que los mismos cumplen con los requisitos establecidos en el Reglamento de Planeación Urbana y de Edificación del Municipio de San Juan, Puerto Rico. Asimismo, certifico que los planos y especificaciones adjuntas son los que se aprobaron en la Junta de Planeación Urbana y de Edificación del Municipio de San Juan, Puerto Rico, y que los mismos cumplen con los requisitos establecidos en el Reglamento de Planeación Urbana y de Edificación del Municipio de San Juan, Puerto Rico.

ROUTE 9 | BUS STOP #7



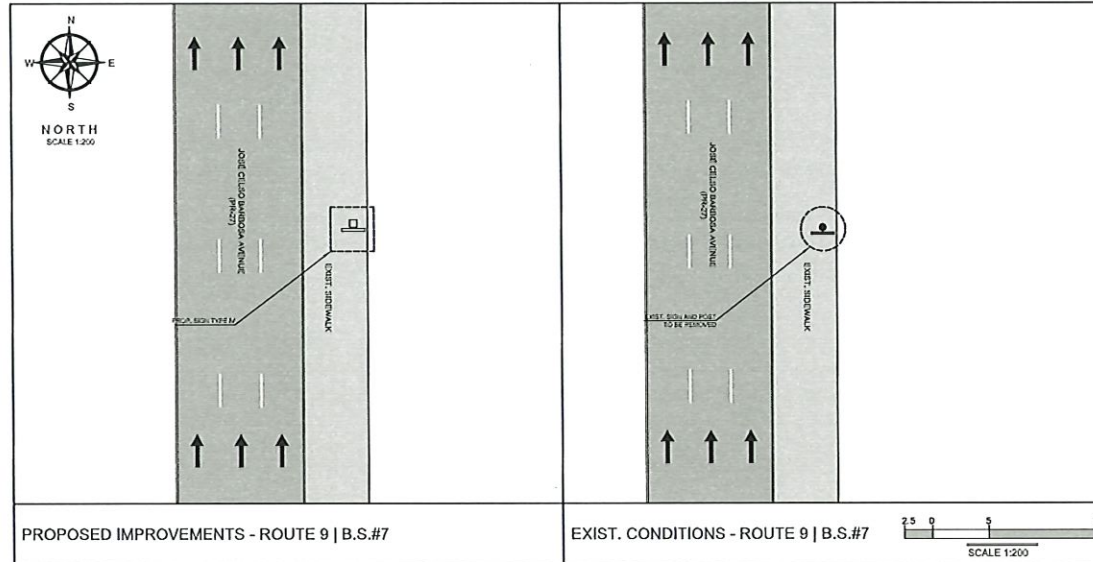
PHOTO - 1



PHOTO - 2

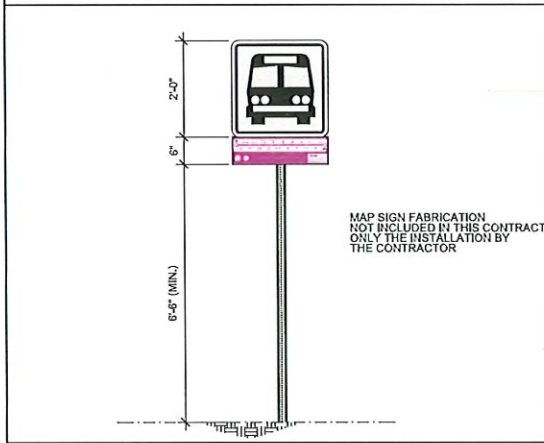
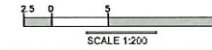


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#7

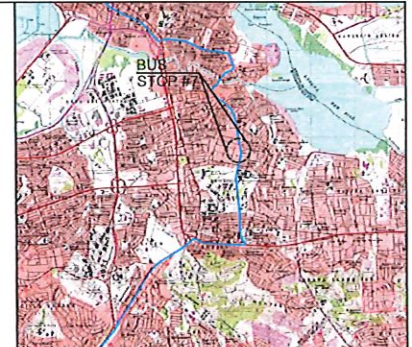
EXIST. CONDITIONS - ROUTE 9 | B.S.#7



PROPOSED SIGN TYPE IV

NOT TO SCALE

- LEGEND:**
- PROP. SIGN TYPE I
 - PROP. SIGN TYPE II
 - PROP. SIGN TYPE III
 - PROP. SIGN TYPE IV
 - EXIST. SIGN
 - PRIVATE EXCLUSIVE LANE (A.M.A. LANE)
 - TRAFFIC DIRECTION
- NOTES:**
- THE CONTRACTOR SHALL OBTAIN THE EXCAVATION PERMITS AND PERMITS FOR THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE SUBSTRUCTURE PROJECT.
 - THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
 - THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DELIVERED TO THE PRISON PERSONNEL.
 - IF THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
 - THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
 - THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURVE SHALL BE 8.0 M.
 - THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN OCCUPY AREA REFER TO PHOTO #1.



LOCATION PLAN
SCALE 1:20,000
18°24'49.41"N, 66°2'33.99"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

No Personal Use: Este documento es propiedad de ENZO Engineering, psc. y no debe ser reproducido, distribuido o utilizado en ningún medio electrónico o impreso sin el consentimiento escrito de ENZO Engineering, psc. Este documento es propiedad de ENZO Engineering, psc. y no debe ser reproducido, distribuido o utilizado en ningún medio electrónico o impreso sin el consentimiento escrito de ENZO Engineering, psc. Este documento es propiedad de ENZO Engineering, psc. y no debe ser reproducido, distribuido o utilizado en ningún medio electrónico o impreso sin el consentimiento escrito de ENZO Engineering, psc.

ENZO
Engineering, psc.
PO Box 3040, PMB 427
Guayama, PR 00973
TEL: (787) 649-6200 | LOPEZBAEZ@ENZOGRUPPLLC.COM

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 1994

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #7
FROM CUPEY TO SAN JUAN
BARBOSA AVENUE AFTER GERONA ST. (FRONT MOPAR)
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD DE AUTOBUSES
METROPOLITANA DE AUTOBUSES

METROPOLITANA BUS AUTHORITY
BOX 155343
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.07	SHEET NO. 13 OF 89

ROUTE 9 | BUS STOP #8



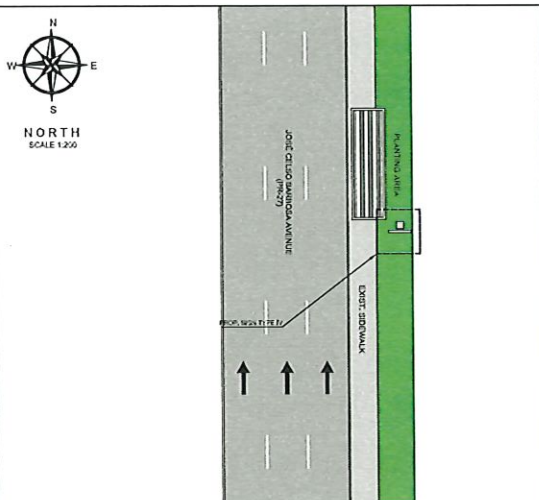
PHOTO - 1



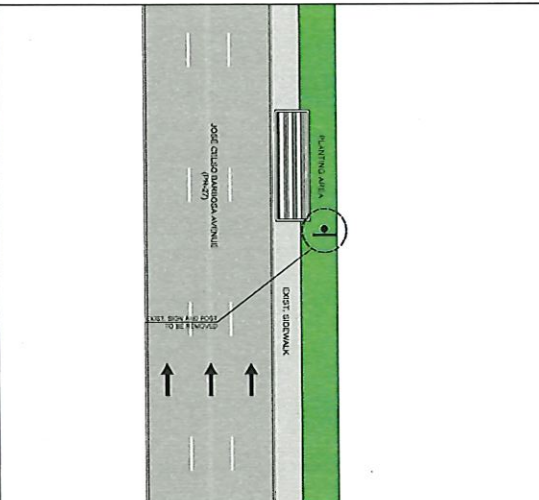
PHOTO - 2



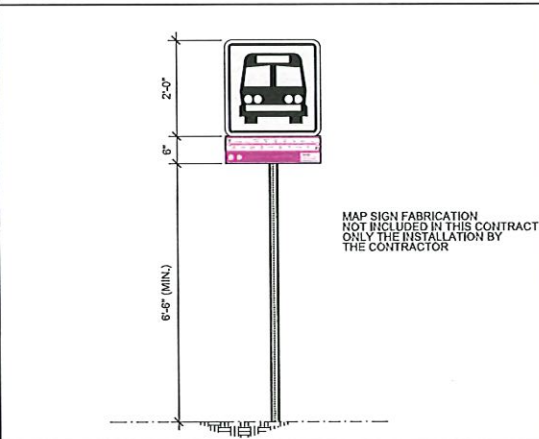
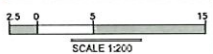
PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#8



EXIST. CONDITIONS - ROUTE 9 | B.S.#8

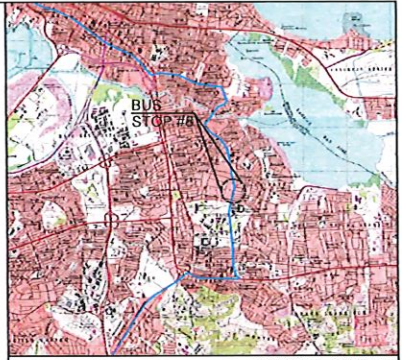


PROPOSED SIGN TYPE IV

NOT TO SCALE

- LEGEND:**
- PROP. SIGN TYPE I
 - PROP. SIGN TYPE II
 - PROP. SIGN TYPE III
 - PROP. SIGN TYPE IV
 - EXIST. SIGN
 - PRMSA EXCLUSIVE LANE (AMA LANE)
 - TRAFFIC DIRECTION

- NOTES:**
- THE CONTRACTOR SHALL DETAIL THE SIGN AND FOOTING AND SHALL REPORT TO THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE FOR THE PROJECT.
 - THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
 - THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POSTS. THESE STRUCTURES SHALL BE REPLACED TO BE PROFESSIONAL.
 - THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN FOUND IN THE PROJECT.
 - THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA REFER TO PHOTO 3.
 - THE WIDTH AND DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 5.0M.



LOCATION PLAN
SCALE 1:20,000



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

EN.Z.O.
Engineering, psc.
PO BOX 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZODUPLC.ORG



HERNAN E. LOPEZ BAEZ, PE/EM
LIC. #19498

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #8
FROM CUPEY TO SAN JUAN
BARBOSA AVENUE BEFORE OPPOSITE SIDE OF CAROLINA ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUS
AUTORIDAD METROPOLITANA DE AUTOBUS

METROPOLITAN BUS AUTHORITY
BOX 155349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	CHECKED BY: BEV
DWG. TYPE: TS-1.08	DRAWN BY: ABZ
	SHEET NO. 14 OF 89

Este Proyecto de Ingeniería Civil fue elaborado por un profesional de competencia profesional que garantiza la exactitud de los datos estrictamente técnicos. No se garantiza el uso de los datos para fines que no sean los de carácter profesional. El autor no se hace responsable de los errores que pudieran ocurrir en la ejecución de los trabajos por causas ajenas a las del autor. El autor no se hace responsable de los errores que pudieran ocurrir en la ejecución de los trabajos por causas ajenas a las del autor. El autor no se hace responsable de los errores que pudieran ocurrir en la ejecución de los trabajos por causas ajenas a las del autor.

ROUTE 9 | BUS STOP #9



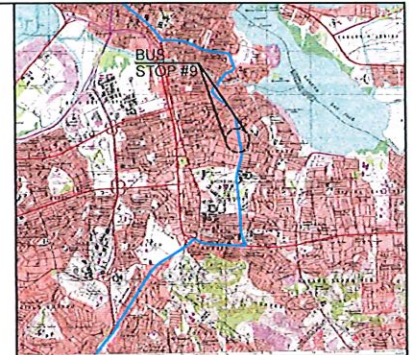
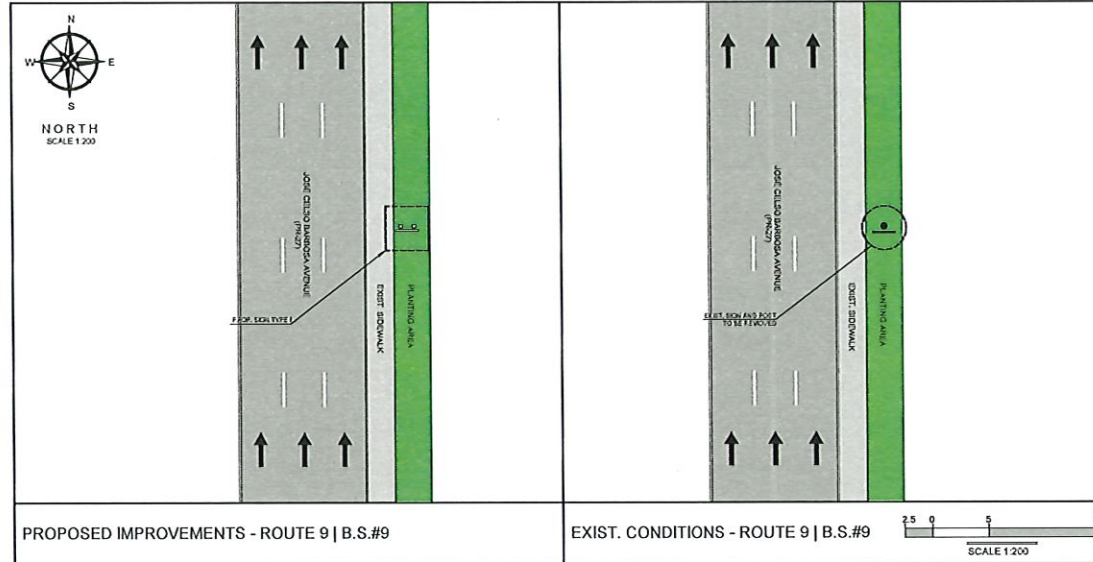
PHOTO - 1



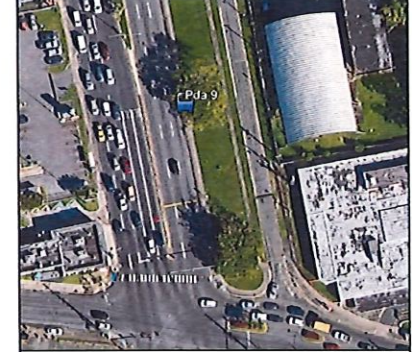
PHOTO - 2



PHOTO - 3: PROPOSED SIGN LOCATION

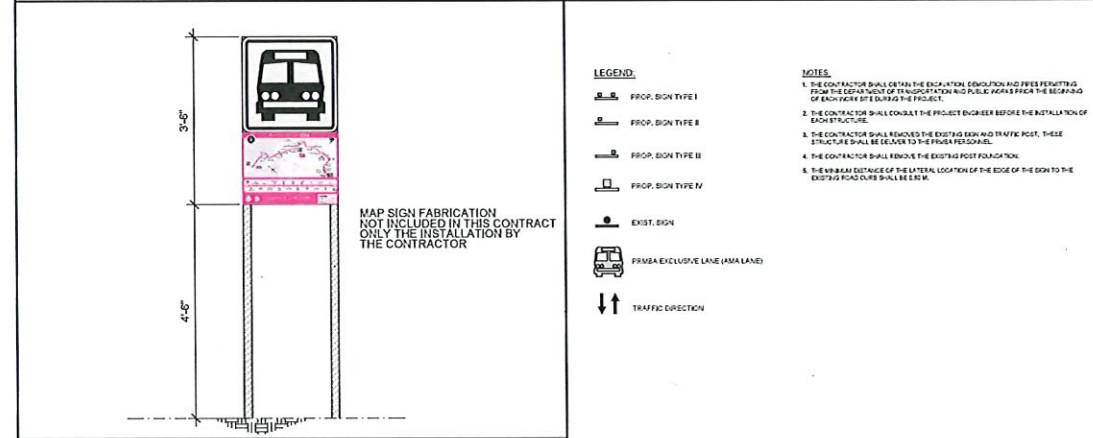


LOCATION PLAN
SCALE 1:20,000



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.6642 PRO



PROPOSED SIGN TYPE I NOT TO SCALE

- LEGEND:**
- PROP. SIGN TYPE I
 - PROP. SIGN TYPE II
 - PROP. SIGN TYPE III
 - PROP. SIGN TYPE IV
 - EXIST. SIGN
 - PRMBA EXCLUSIVE LANE (BIKE LANE)
 - TRAFFIC DIRECTION
- NOTES:**
1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION PERMIT AND PRIOR PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
 2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
 3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DELIVERED TO THE PRMBA PERSONNEL.
 4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
 5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 5 FT.

Yo Herman E. Lopez Baez, Agente de Licencia No. 18-746, certifico que soy el profesional que confecciono, dibujo y a cargo este plan y los especificaciones complementarias. Asimismo, certifico que este plan y especificaciones cumplen con las disposiciones aplicables del Reglamento General de Especificaciones del Departamento de Transportación y Obras Públicas de San Juan. Asimismo, certifico que el Proyecto de Obras Públicas que yo he diseñado, ha sido aprobado por el Departamento de Transportación y Obras Públicas de San Juan. Asimismo, certifico que el Proyecto de Obras Públicas que yo he diseñado, ha sido aprobado por el Departamento de Transportación y Obras Públicas de San Juan. Asimismo, certifico que el Proyecto de Obras Públicas que yo he diseñado, ha sido aprobado por el Departamento de Transportación y Obras Públicas de San Juan.

PD Box 3040, PMB 427
SUNBURG, PR 01078
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOROPULLC.COM

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18-5484

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #9
FROM CUPEY TO SAN JUAN
BARBOSA AVENUE AFTER SICILIA ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY BOX # 156349 SAN JUAN, PR 00919-5349	
DATE: JUNE 2022	REVISION
CHECKED BY: ABZ	
DWG. TYPE: TS-1.09	SHEET NO. 15 OF 89

ROUTE 9 | BUS STOP #10

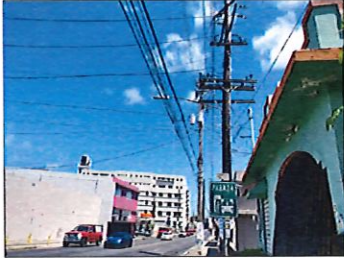


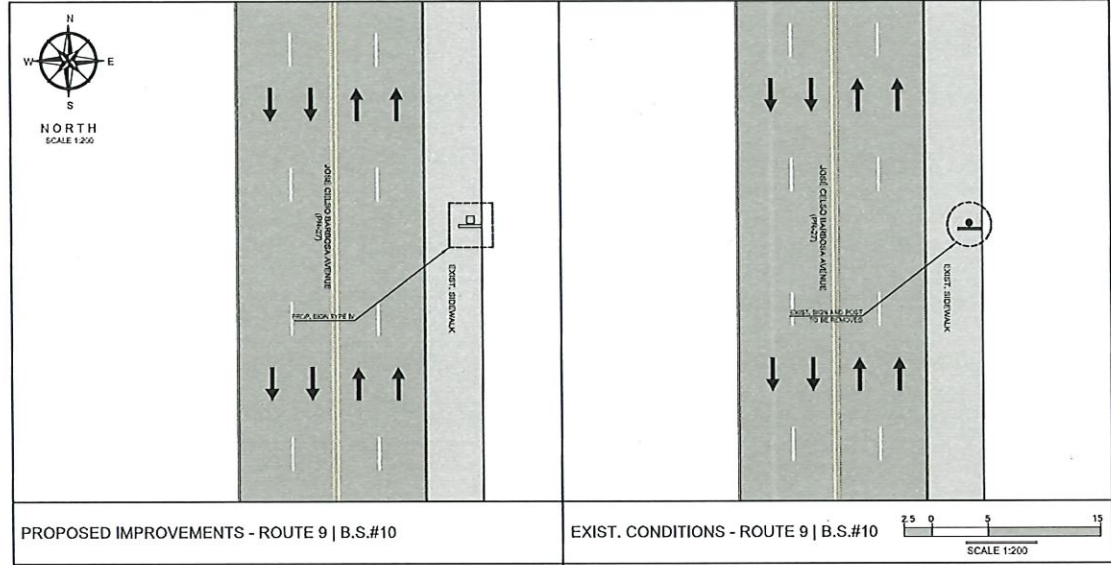
PHOTO - 1



PHOTO - 2

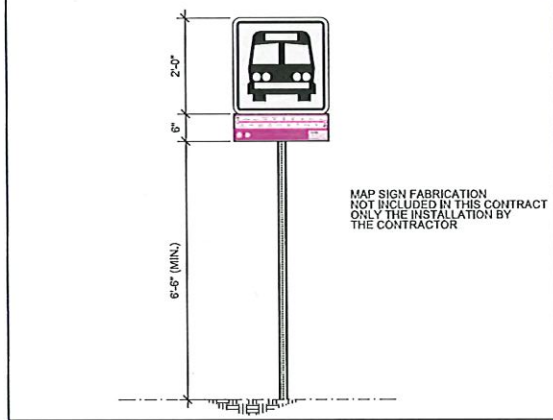
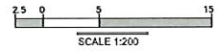


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#10

EXIST. CONDITIONS - ROUTE 9 | B.S.#10



PROPOSED SIGN TYPE IV

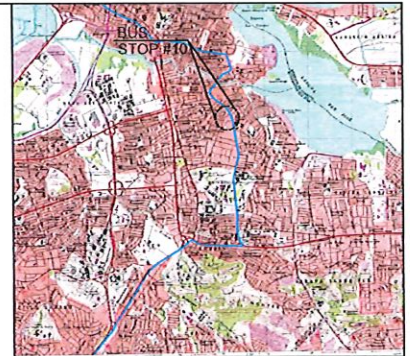
NOT TO SCALE

LEGEND:

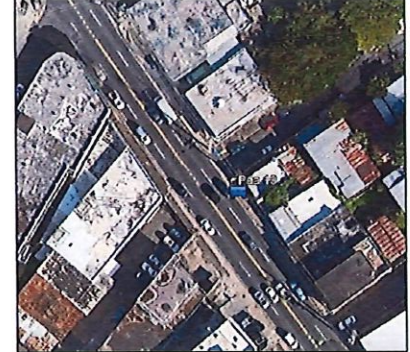
- PROP. SIGN TYPE I
- PROP. SIGN TYPE B
- PROP. SIGN TYPE BI
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS AND CONSENTS FROM THE DEPT. OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF WORK FROM THE DEPT. OF TRANSPORTATION AND PUBLIC WORKS.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POSTS. THESE STRUCTURES SHALL BE DEMOLISHED BY THE PROJECT ENGINEER.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN FOUNDATIONS.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING ORIGINAL UTILITIES IN THE AREA BEFORE THE WORK PROCEEDS.
6. THE WIDTH AND DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE AS FOLLOWS:
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN DESIGN AREA REFER TO PHOTO 3.



LOCATION PLAN
SCALE 1:20,000
18°25'23.40"N, 65°24'1.16"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

ENZO.
engineering, psc.
PO Box 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGRUPOLLC.COM



BUS STOP SIGNAGE PROJECT - PHASE 1 ROUTE 9 | BUS STOP #10

FROM CUPEY TO SAN JUAN
BARBOSA AVENUE INT. TEXIDOR ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD DE AUTOBUSES
SAN JUAN, PR 00910-0349



METROPOLITAN BUS AUTHORITY
SAN JUAN, PR 00910-0349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAWN BY: ABZ
DWG. TYPE: TS-1.10	SHEET NO. 16
	OF 89

This project was prepared under the supervision and control of the professional engineer, and the contractor shall be responsible for the quality of the work. The contractor shall obtain the necessary permits and consents from the Department of Transportation and Public Works before starting work. The contractor shall consult the project engineer before the installation of each structure. The contractor shall remove the existing sign and traffic posts. These structures shall be demolished by the project engineer. The contractor shall remove the existing sign foundations. The contractor shall take into account the level of the existing original utilities in the area before the work proceeds. The width and distance of the lateral location of the edge of the sign to the existing road curb shall be as follows. The contractor shall install the proposed sign in design area refer to photo 3.

ROUTE 9 | BUS STOP # 11



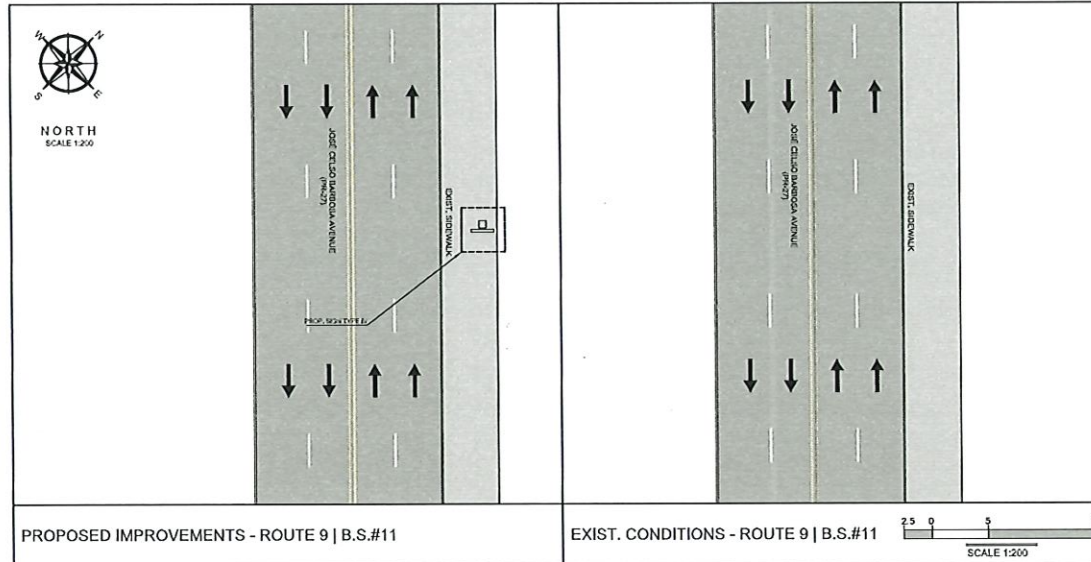
PHOTO - 1



PHOTO - 2

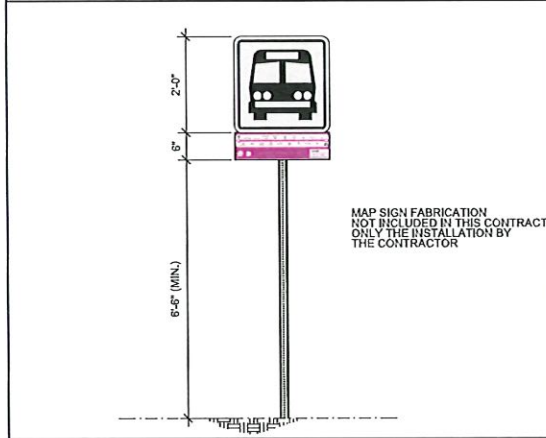
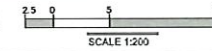


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#11

EXIST. CONDITIONS - ROUTE 9 | B.S.#11



PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AM LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION DEVELOPMENT AND PERMITS RESULTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK ITEM UNDER THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT AT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING METAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
4. THE MINIMUM DISTANCE OF THE EXTERNAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 6.0M.
5. FIRST, THE CONTRACTOR SHALL REMOVE THE EXISTING NO PARKING SIGN. SECOND, THE CONTRACTOR SHALL INSTALL ALL THE PROPOSED SIGN THAT LOCATIONAL REFER TO PHOTO #1.



LOCATION PLAN
SCALE 1:20,000

18°25'29.13\"/>



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

EN.Z.O.
engineering, psc.
PO BOX 3040, PMB 427
SUNABO, PR 00978
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOOGRPULLC.OB

HERNÁN E. LOPEZ BAEZ, PE MEM
LIC. 18194

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP # 11
FROM CUPEY TO SAN JUAN
BARBOSA AVENUE BEFORE JUAN PABLO DUARTE ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 190349
SAN JUAN, PR 00919-0349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAWN BY: ABZ
DWG. TYPE: TS-1.11	SHEET NO. 17 OF 89

ROUTE 9 | BUS STOP #12



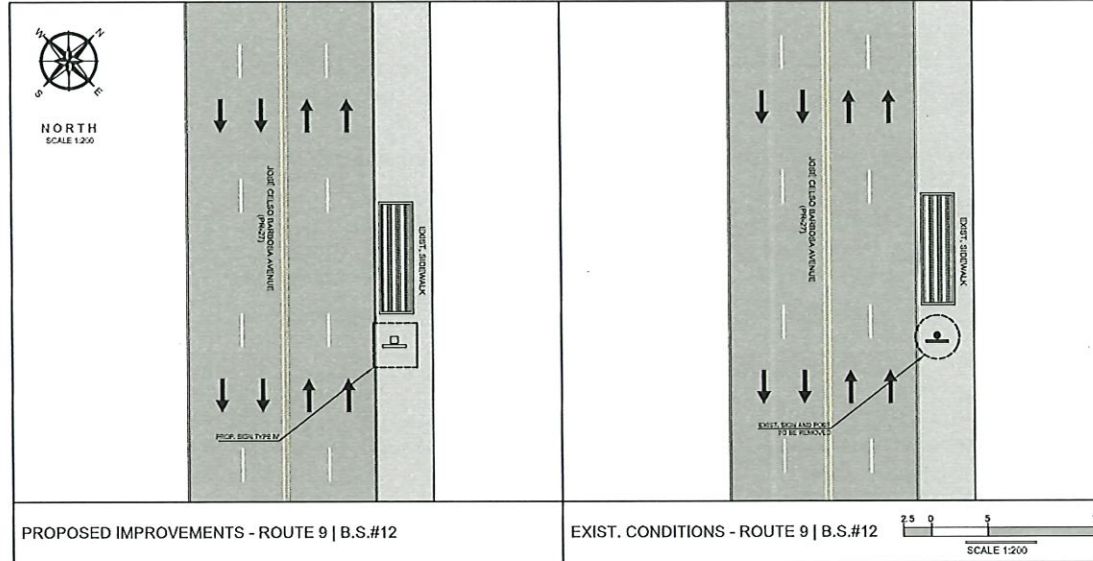
PHOTO - 1



PHOTO - 2

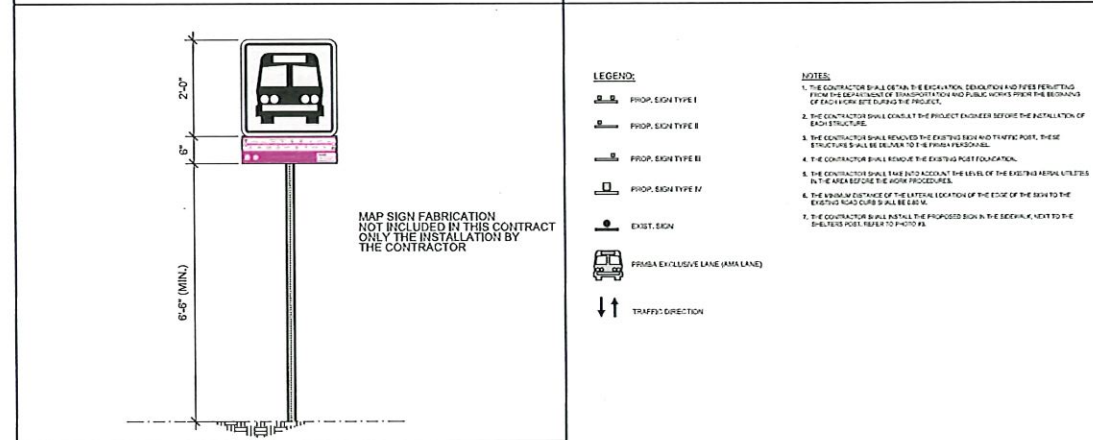
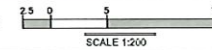


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#12

EXIST. CONDITIONS - ROUTE 9 | B.S.#12



PROPOSED SIGN TYPE IV

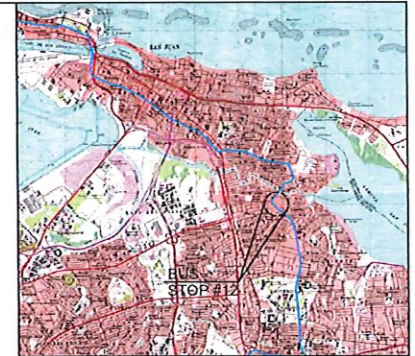
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND TYPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF FACTORY SITE SURVEYING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POLE, THESE STRUCTURES SHALL BE DELIVERED TO THE PROJECT PERSONNEL.
4. IF THE CONTRACTOR SHALL REMOVE THE EXISTING POLE FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 6.00 M.
7. IF THE CONTRACTOR SHALL RETAIN THE PROPOSED SIGN IN THE SECONDARY, NOTIFY THE SHELTERS POLE REFER TO PHOTO #8.



LOCATION PLAN
SCALE 1:20,000

18°25'34.78\"/>



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.6642 PRO

Yo Herman E. Lopez Baez Ingeniero, Bachelo en Ingenieria Civil, me declaro responsable de la confeccion de este proyecto de obra y de la veracidad de los datos suministrados y de la conformidad de los planos con el proyecto de obra. Asimismo, me declaro responsable de la conformidad de los planos con el proyecto de obra y de la veracidad de los datos suministrados y de la conformidad de los planos con el proyecto de obra. Asimismo, me declaro responsable de la conformidad de los planos con el proyecto de obra y de la veracidad de los datos suministrados y de la conformidad de los planos con el proyecto de obra.

E.N.Z.O.
engineering, psc.
PO Box 3040, PMB 427
GURASO, PR 00778
TEL: (787) 649-6200 | LLOPEZBAEZ@ENZODGROUPLLC.COM

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 1995

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #12
FROM CUPEY TO SAN JUAN
BARBOSA AVENUE AFTER FRANKLIN D. ROOSEVELT AVE.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	DRAW BY: ABZ
CHECKED BY: BEV	SHEET NO. 18
DWG. TYPE: TS-1.12	OF 89

ROUTE 9 | BUS STOP #13

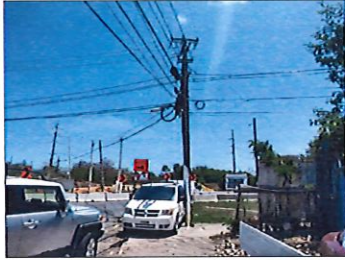


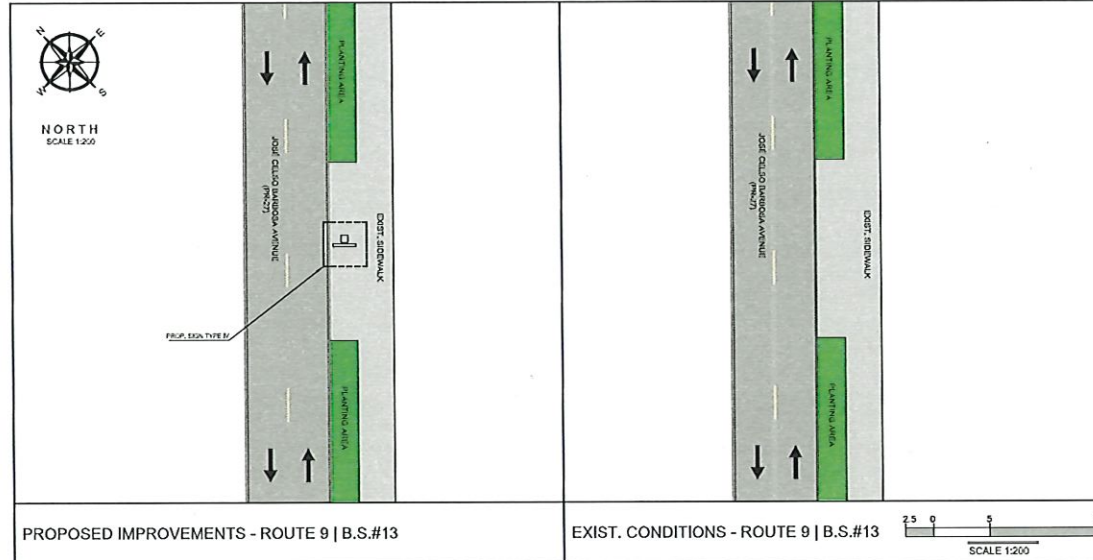
PHOTO - 1



PHOTO - 2

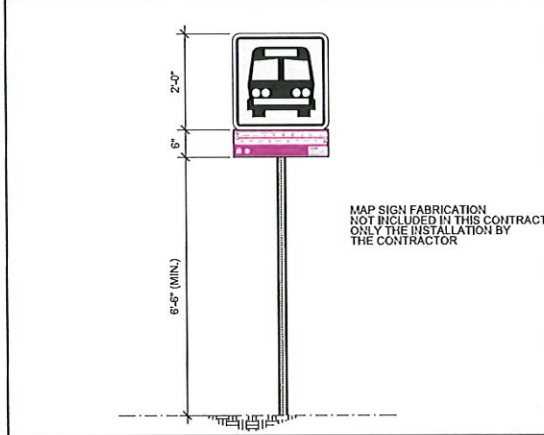
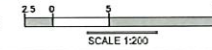


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#13

EXIST. CONDITIONS - ROUTE 9 | B.S.#13



PROPOSED SIGN TYPE IV

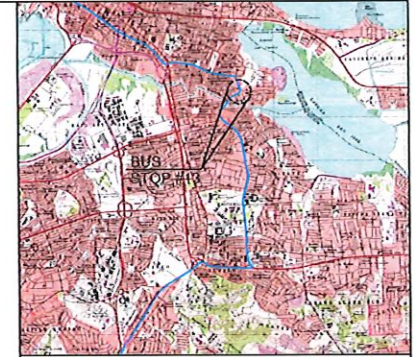
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PROP. EXCLUSIVE LANE (A.M. LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PILES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK ITEM UNDER THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
4. THE SIGN SHALL BE LOCATED AT THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SPALLS CURB.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN ON THE PAVEMENT SIDE OF THE POST SIDE OF THE WOODEN POLE, REFER TO PHOTO 1.



LOCATION PLAN
SCALE 1:20,000
18°25'53.70\"/>



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.6542 PRO

Yo Herminio E. López Baez, Ingeiero Mecánico, certificado por el Colegiado de Ingeieros Mecánicos de Puerto Rico, certifico que este proyecto de planos y especificaciones cumple con las normas técnicas de la Autoridad Metropolitana de Autobuses y que el mismo cumple con las disposiciones aplicables del Reglamento de Obras de Ingeniería Civil de la Corporación Autoridad Metropolitana de Autobuses. Asimismo, certifico que el presente proyecto de planos y especificaciones cumple con los requisitos establecidos en el Reglamento de Obras de Ingeniería Civil de la Corporación Autoridad Metropolitana de Autobuses y que el mismo cumple con los requisitos establecidos en el Reglamento de Obras de Ingeniería Civil de la Corporación Autoridad Metropolitana de Autobuses.

ENZO
Engineering, psc.
PO Box 3040, PMB 427
SUNABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.PR

HERMINIO E. LOPEZ BAEZ, PE MEM
LIC. 10118-PR

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #13
FROM CUPEY TO SAN JUAN
BARBOSA AVENUE BEFORE CONSTITUCIÓN ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

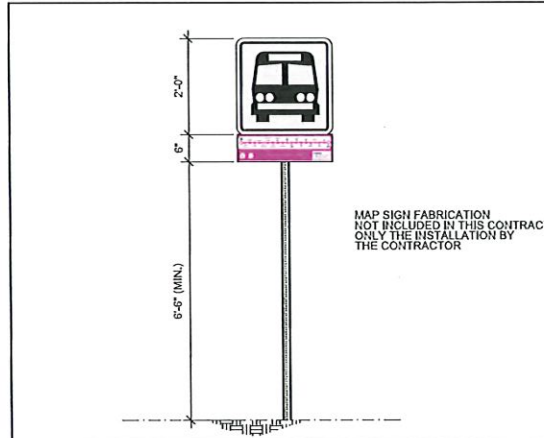
METROPOLITAN BUS AUTHORITY
BOX 190349
SAN JUAN, PR 00915-0349

REVISION	
DATE: JUNE 2022	DRAWN BY:
CHECKED BY: BEV	ABZ
DWG. TYPE: TS-1.13	SHEET NO. 19
	OF 89

ROUTE 9 | BUS STOP #14

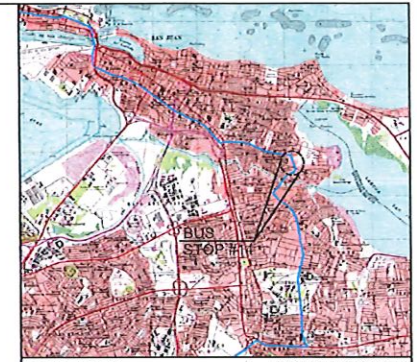
NOTES

1. THE CONTRACTOR SHALL OBTAIN THE NECESSARY ENCLOSURE AND PERMITS FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS FROM THE RESERVING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING METEORICAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
4. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 5.0 M.
5. THIS BARBOSA AVENUE SECTION IS IN CONSTRUCTION.



PROPOSED SIGN TYPE IV

NOT TO SCALE



LOCATION PLAN
SCALE 1:20,000

18°26'4.70"N, 66°2'41.53"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo Hernán E. López Baez, Barboza #14, certifico que este proyecto de instalación de señalización de paradas de autobús fue diseñado y elaborado por mí o por un profesional de mi firma y que soy el único responsable de su contenido. Asimismo, certifico que este proyecto de instalación de señalización de paradas de autobús fue diseñado y elaborado por mí o por un profesional de mi firma y que soy el único responsable de su contenido. En consecuencia, me comprometo a cumplir con las obligaciones establecidas en el Reglamento de Control de Construcción y Obras de Ingeniería Civil de la Autoridad de Obras Públicas y Construcción Pública de la A.G.O.P. y a proporcionar toda la información que me sea solicitada por la Autoridad de Obras Públicas y Construcción Pública de la A.G.O.P. y a proporcionar toda la información que me sea solicitada por la Autoridad de Obras Públicas y Construcción Pública de la A.G.O.P. y a proporcionar toda la información que me sea solicitada por la Autoridad de Obras Públicas y Construcción Pública de la A.G.O.P.

EN·Z·O.
engineering, psc.
PO Box 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPPLC.ORG

HERNÁN E. LÓPEZ BAEZ
INGENIERO MECÁNICO
PUERTO RICO
LIC. 15092

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #14
FROM CUPEY TO SAN JUAN
BARBOSA AVENUE BEFORE BORINQUEN AVE.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD
METROPOLITANA DE AUTOBUSES

METROPOLITANA BUS AUTHORITY
BOX 156343
SAN JUAN, PR 00915-5343

REVISION	

DATE: JUNE 2022	DRAWN BY: BEV
CHECKED BY: BEV	ABZ
DWG. TYPE: TS-1.14	SHEET NO. 20
	OF 89

ROUTE 9 | BUS STOP #15



PHOTO - 1



PHOTO - 2

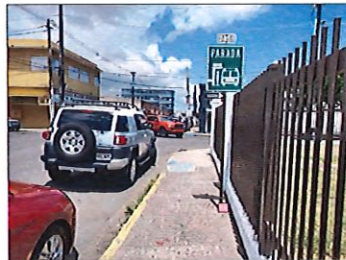
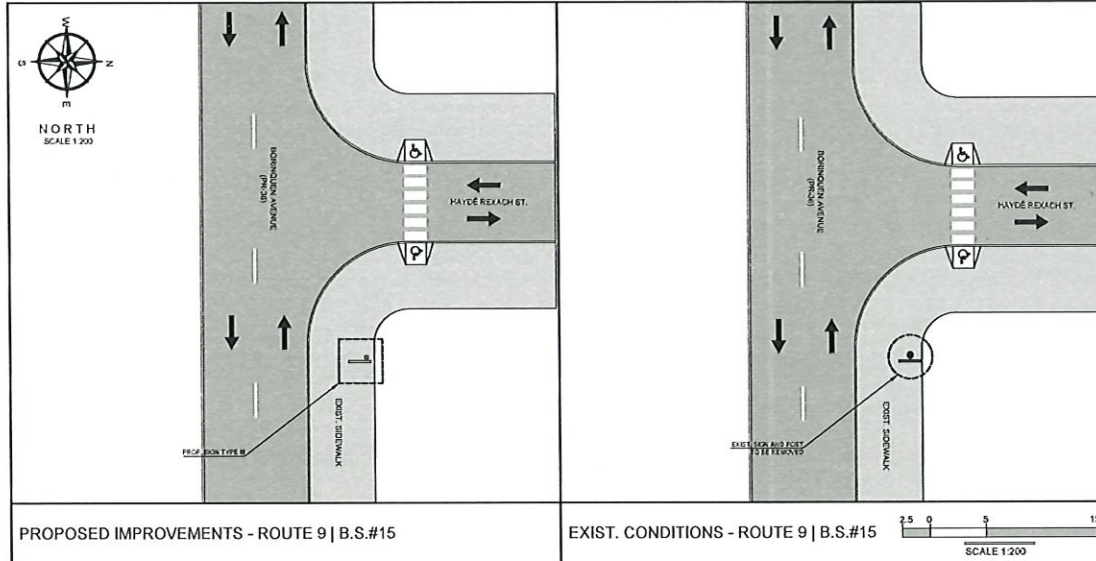
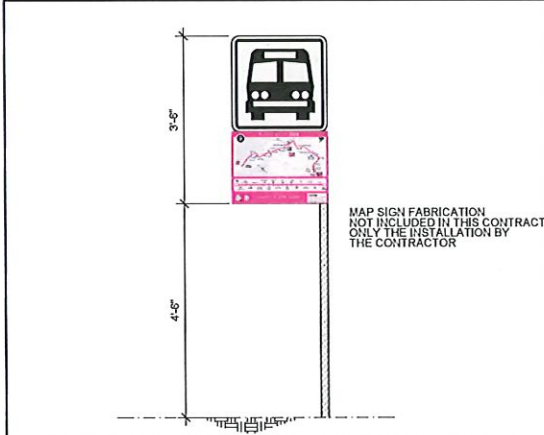
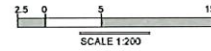


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#15

EXIST. CONDITIONS - ROUTE 9 | B.S.#15



PROPOSED SIGN TYPE III

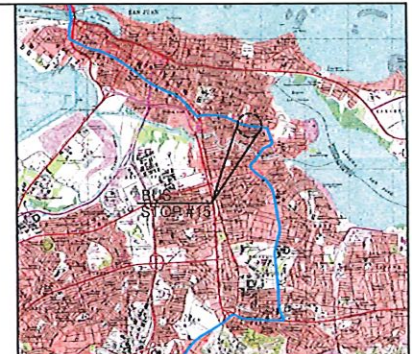
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EDUCATION, EDUCATION AND PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURE SHALL BE DELIVER TO THE PUBLIC PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED CANTILEVER SIGN IN THE SIDEWALK NEXT TO FENCE, REFER TO PHOTO 3.
6. THE SIGN SHALL BE INSTALLED AT THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 5.0 M.



LOCATION PLAN
SCALE 1:20,000
18°26'8.29"N, 66°2'45.29"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.6642 PRO

El Ingeniero E. López Báez, Agente de la Ley 105, certifica que este proyecto fue elaborado dentro de su capacidad profesional y que el mismo cumple con las especificaciones técnicas. Asimismo, certifica que el mismo fue elaborado y ejecutado en cumplimiento de la Ley 105 de 1998 y de la Ley 100 de 1993, y que el mismo fue elaborado y ejecutado en cumplimiento de la Ley 105 de 1998 y de la Ley 100 de 1993, y que el mismo fue elaborado y ejecutado en cumplimiento de la Ley 105 de 1998 y de la Ley 100 de 1993.

ENZO
Engineering, psc.
PO Box 3040, P.M.B. 427
GURASO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNÁN E. LÓPEZ BÁEZ, PE MEM
LIC. 115146

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #15
FROM CUPEY TO SAN JUAN
BORINQUEN AVENUE INT. HAYDEÉ REXACH ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD DE AUTOBUSES

METROPOLITAN BUS AUTHORITY BOX 155349 SAN JUAN, PR 00918-5349	
DATE: JUNE 2022	REVISION
CHECKED BY: BEV	DRAWN BY: ABZ
EDWG. TYPE: TS-1.15	SHEET NO. 21
	OF 89

ROUTE 9 | BUS STOP #16



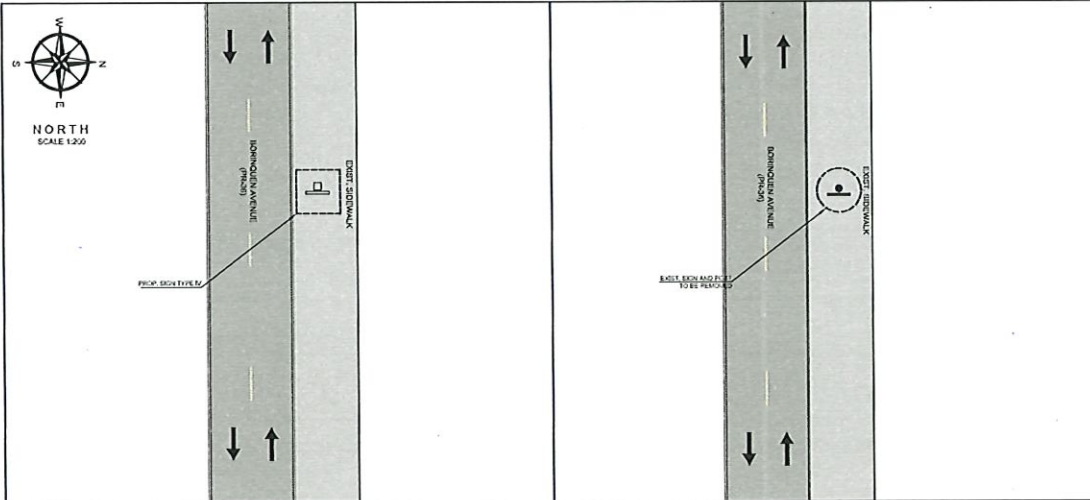
PHOTO - 1



PHOTO - 2

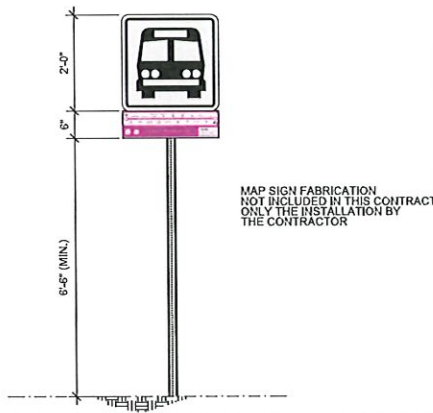
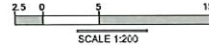


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#16

EXIST. CONDITIONS - ROUTE 9 | B.S.#16



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

PROPOSED SIGN TYPE IV

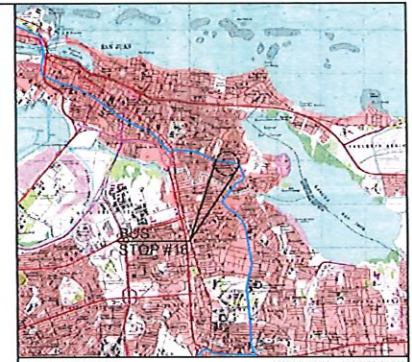
NOT TO SCALE

LEGEND:

-  PROP. SIGN TYPE I
-  PROP. SIGN TYPE II
-  PROP. SIGN TYPE III
-  PROP. SIGN TYPE IV
-  EXIST. SIGN
-  FRMSA EXCLUSIVE LANE (AMA LANE)
-  TRAFFIC DIRECTION

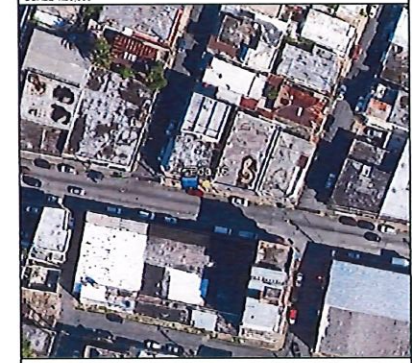
NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EDUCATION, DEQUALIFICATION AND FINES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POSTS; THESE STRUCTURES SHALL BE REPLACED TO BE PROHIBITORY.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST EDUCATIONAL.
5. THE CONTRACTOR SHALL MAKE AN ADJUSTMENT THE LEVEL OF THE EXISTING ROAD UTILITIES IN THE AREA RESOLVE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 680 MM.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN DESIGNATED AREA; REFER TO PHOTO 3A.



LOCATION PLAN
SCALE 1:20,000

18°26'7.08\"/>



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.6642 PRO

The Project Engineer hereby certifies that the information contained in this drawing and its attachments is true and correct, and that the same complies with the applicable laws, regulations and codes in force in the Republic of Puerto Rico. The Project Engineer also certifies that the design was prepared under the supervision and control of the Project Engineer. The Project Engineer is not responsible for any errors or omissions that may appear in this drawing. The Project Engineer is not responsible for any errors or omissions that may appear in this drawing. The Project Engineer is not responsible for any errors or omissions that may appear in this drawing.

EN.ZO.
Engineering, psc.
PO BOX 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOOGROUPCLC.ORG


 HERNÁN E. LOPEZ BAEZ, PEEM
 LIC. 191045

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #16

 FROM CUPEY TO SAN JUAN
 BORINQUEN AVENUE BEFORE MORELL CAMPOS ST.
 MUNICIPALITY OF SAN JUAN

METROPOLITANA DE
AUTOBUSES


 METROPOLITAN BUS AUTHORITY
 BOX 15549
 SAN JUAN, PR 00919-5349

REVISION	

DATE: JUNE 2022	DRAW BY: ABZ
CHECKED BY: BEV	DWG. TYPE: SHEET NO. 22
	OF 89

TS-1.16

ROUTE 9 | BUS STOP #17



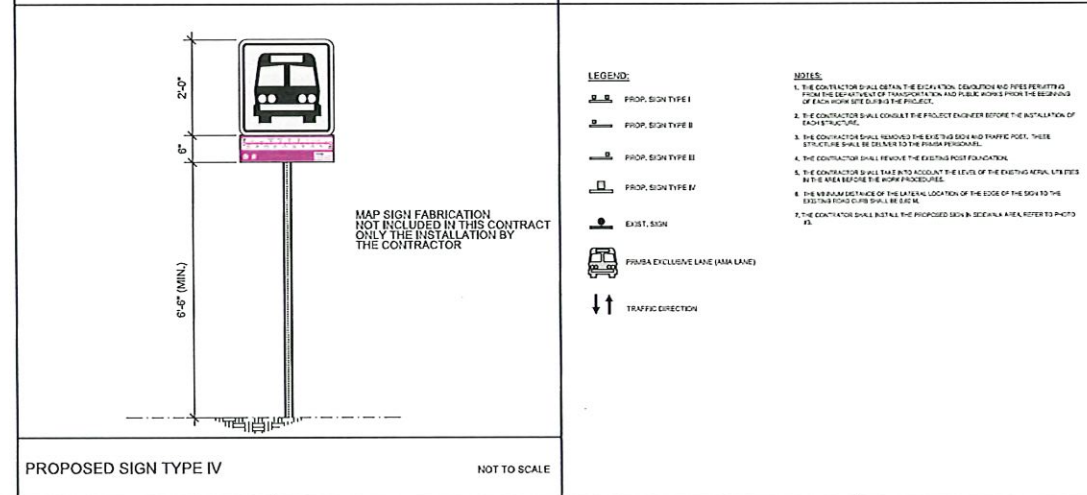
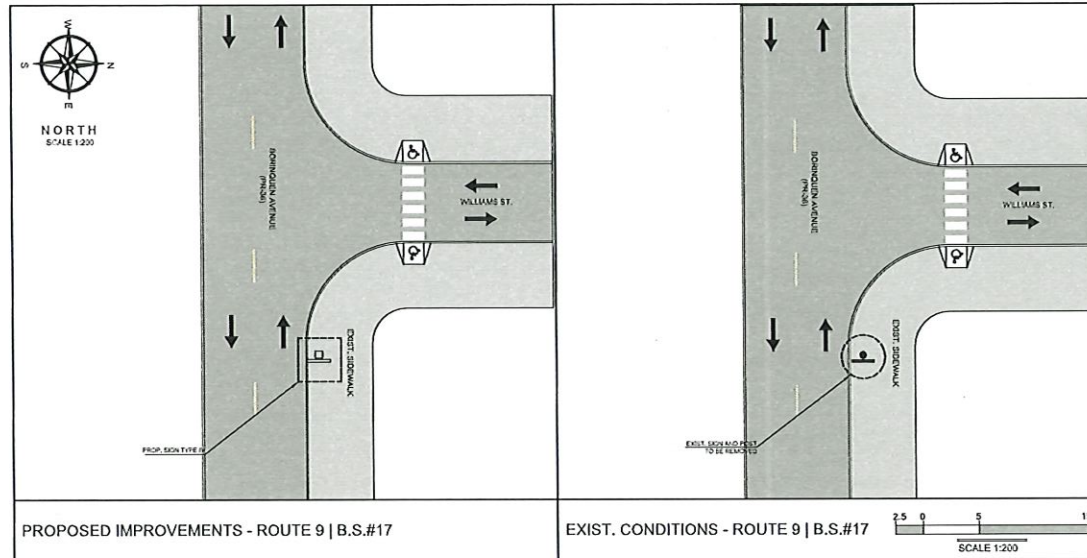
PHOTO - 1



PHOTO - 2



PHOTO - 3: PROPOSED SIGN LOCATION

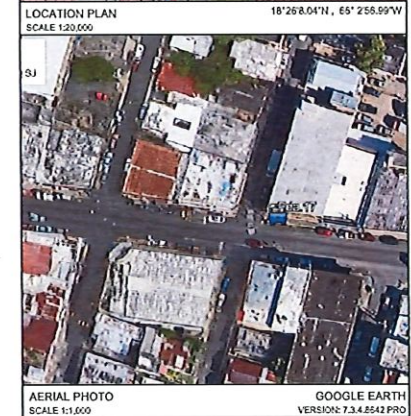
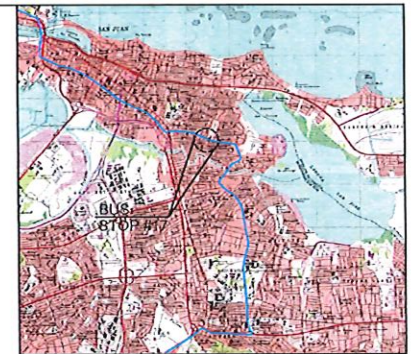


LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRWSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE ERECTION, DEVIATION AND TRIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH HIGHWAY SITE SURVEY PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DELIVERED TO THE PRWSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING ASPHALT LAYERS BUT HE SHALL RESPECT THE PROPE PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 6'00".
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN SEEN AND AREA REFERED TO PHOTO #3.



Yo hecerse E. Lopez Baez, Ingeniero y Licenciado en el ejercicio de su profesión, declaro que presento esta planilla y los documentos que la acompañan, con toda la veracidad que me es posible, que los datos que se refieren en ella son ciertos y que no he sido influenciado por terceros para alterarlos. Asimismo, declaro que no he sido influenciado por terceros para alterarlos. Asimismo, declaro que no he sido influenciado por terceros para alterarlos. Asimismo, declaro que no he sido influenciado por terceros para alterarlos.

E.N.Z.O.
engineering, psc.

PO BOX 3040, PHB 427
SURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOOPLLC.COM



HERNÁN E. LOPEZ BAEZ, PE MEM
LIC. 1° 5486

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #17

FROM CUPEY TO SAN JUAN
BORINQUEN AVENUE INT. WILLIAMS ST.
MUNICIPALITY OF SAN JUAN

AUTORIZADO
METROPOLITANA DE
AUTOBUSES



METROPOLITANA BUS AUTHORITY
BOX 115349
SAN JUAN, PR 00919-5349

REVISION	
DATE:	JUNE 2022
CHECKED BY:	DRAW BY:
BEV	ABZ
DWG. TYPE:	SHEET NO.
TS-1.17	23
	OF
	69

ROUTE 9 | BUS STOP #18



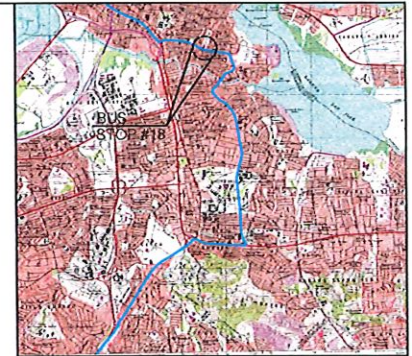
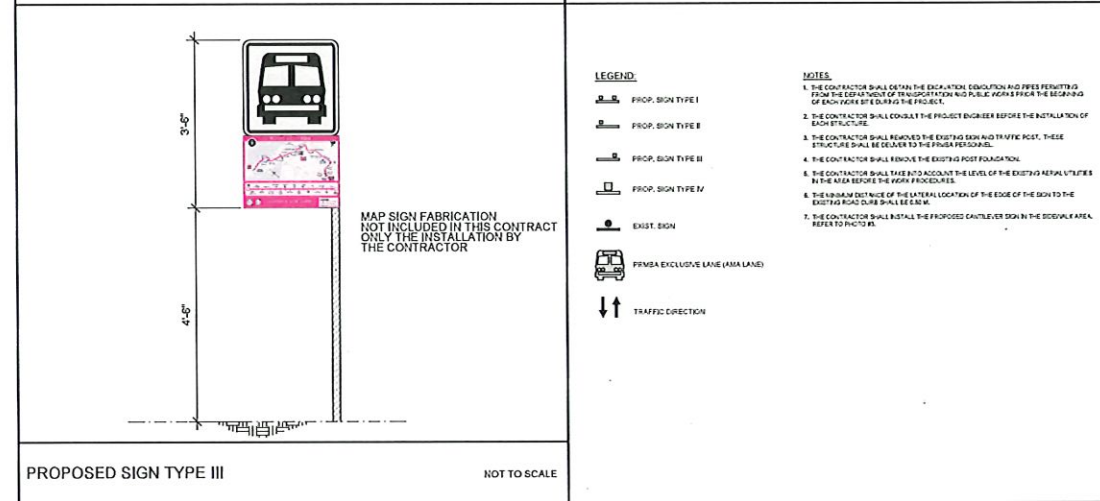
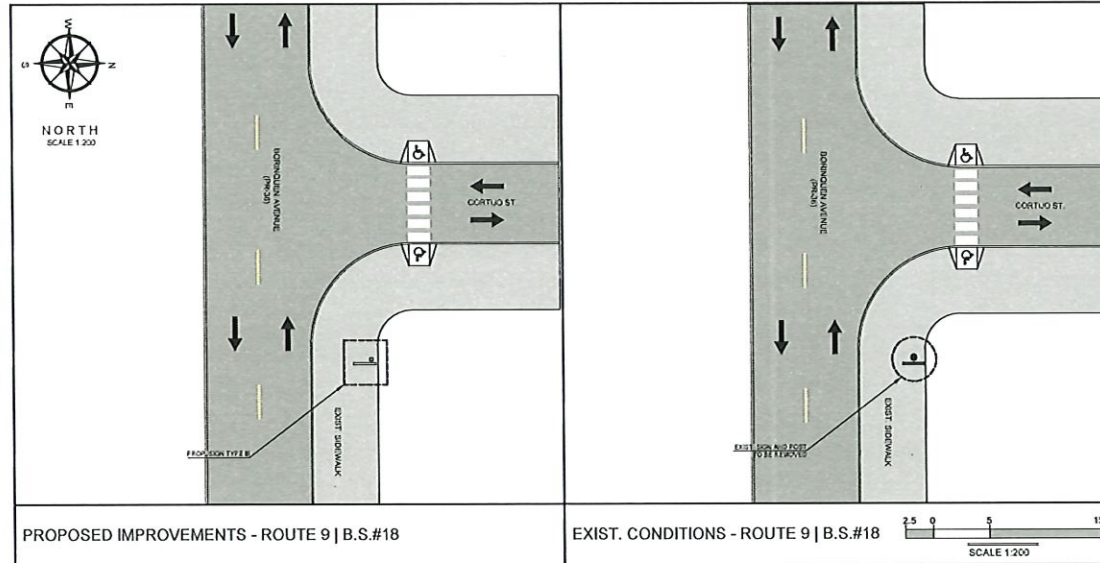
PHOTO - 1



PHOTO - 2



PHOTO - 3: PROPOSED SIGN LOCATION



El Herman E. Lopez Baez, Agente, licencia 18154, certifica que todo el contenido que conforma este documento es correcto, veraz y a su vez es fiel a los hechos y a la realidad. Asimismo, certifica que el contenido de este documento es correcto y que no ha sido alterado en ningún momento. Este documento es propiedad de la Autoridad Metropolitana de Autobuses y no debe ser distribuido, copiado, reproducido o utilizado sin el consentimiento escrito de la Autoridad Metropolitana de Autobuses. Reservados todos los derechos. No se permite la explotación económica ni la transformación de esta obra. Queda permitida la impresión en su totalidad o parcialmente. No se permite la explotación económica ni la transformación de esta obra. Queda permitida la impresión en su totalidad o parcialmente. No se permite la explotación económica ni la transformación de esta obra. Queda permitida la impresión en su totalidad o parcialmente.

ENZO
engineering, psc.

PO Box 3040, PMB 427
SURABO, PR 00778
TEL: (787) 649-6200 | LOPEZBAEZ@ENZOGROUPPLLC.ORG



BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #18

FROM CUPEY TO SAN JUAN
BORINQUEN AVENUE BEFORE CORTIJO ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA AUTORIDAD DE **AUTOBUSES**

METROPOLITAN BUS AUTHORITY
BOX 12549
SAN JUAN, PR 00915-5349

REVISION	
DATE	JUNE 2022
CHECKED BY	ABZ
DRAWN BY	ABZ
DWG. TYPE	24
TS-1.18	OF 69

ROUTE 9 | BUS STOP #19



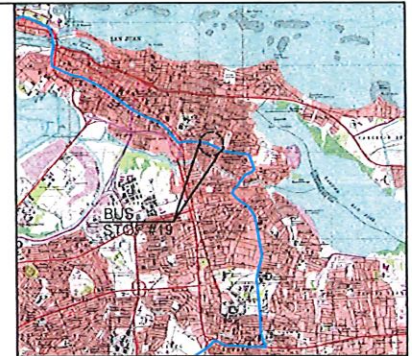
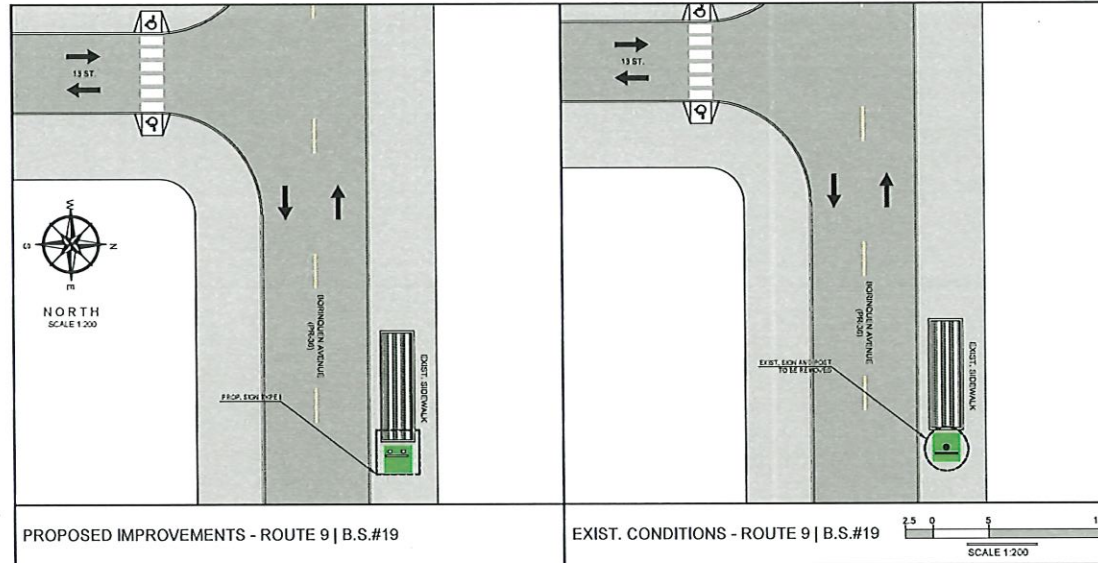
PHOTO - 1



PHOTO - 2



PHOTO - 3: PROPOSED SIGN LOCATION



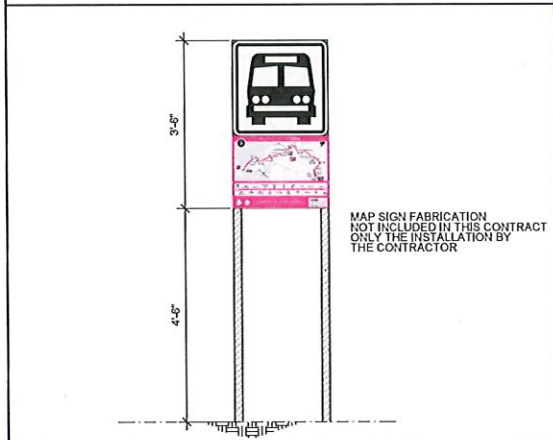
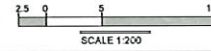
LOCATION PLAN
SCALE 1:20,000
18°26'14.51\"/>



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.6242 PRO

PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#19

EXIST. CONDITIONS - ROUTE 9 | B.S.#19



PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND

- PROP. SIGN TYPE I
- PROP. SIGN TYPE B
- PROP. SIGN TYPE BII
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES

1. THE CONTRACTOR SHALL OBTAIN THE EDUCATIONAL SIGNATURE AND PERMIT PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURES SHALL BE DELIVER TO THE PUBLIC PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 5.0 M.
7. THE CONTRACTOR SHALL CUT BRANCHES REFER TO PHOTO #3.

BUS STOP SIGNAGE PROJECT - PHASE 1 ROUTE 9 | BUS STOP #19

FROM CUPEY TO SAN JUAN
BORINQUEN AVENUE OPPOSITE SIDE OF 13 ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD



METROPOLITAN BUS AUTHORITY
BOX 129349
SAN JUAN, PR 00918-5349

EN·Z·O·I.
engineering, psc.
PO Box 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOROUPCLL.CORP



REVISION	
DATE	JUNE 2022
CHECKED BY	BEV
DWG. TYPE	ABZ
TS-1.19	SHEET NO. 25
	OF 88

ROUTE 9 | BUS STOP #20



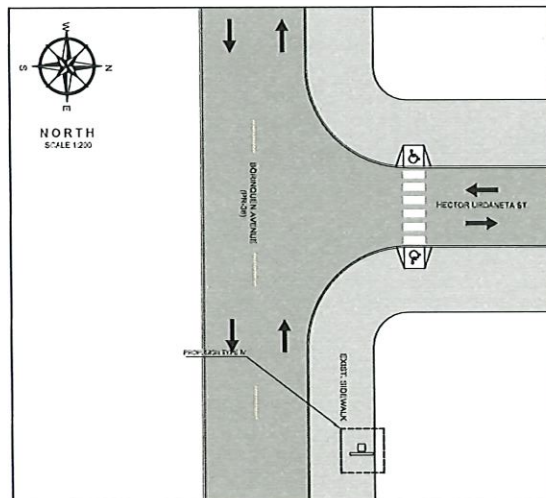
PHOTO - 1



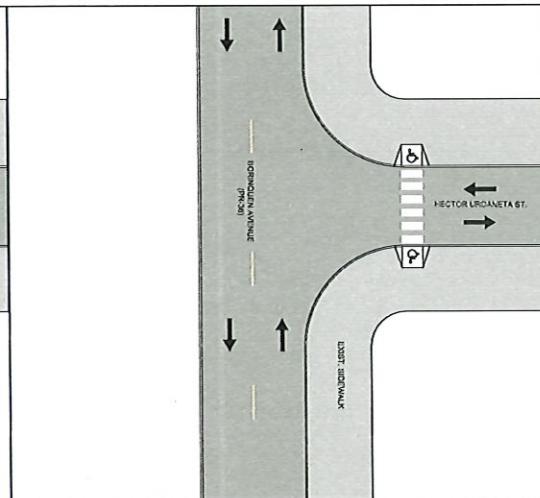
PHOTO - 2



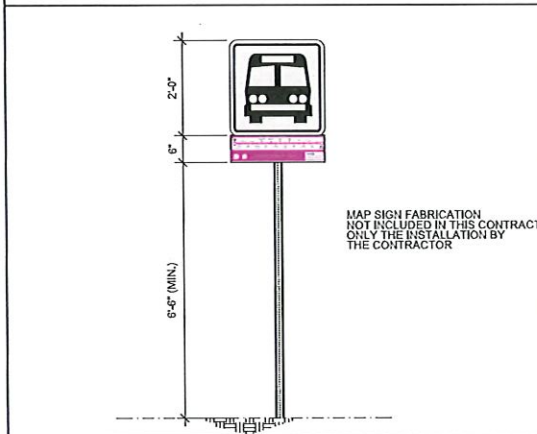
PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#20



EXIST. CONDITIONS - ROUTE 9 | B.S.#20



PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PAVED EXCLUSIVE LANE (MSA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL DETAIL THE SIGNATION, LOCATION AND FIXES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING MANHOLE LIFTS IN THE AREA AND MATCH THE WORK PROCEDURES.
4. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING PAVED CURB SHALL BE 20 INCH.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN SIDEWALK SECTION, NOT IN TRAFFIC NEXT TO FENCE, REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000
18°26'16.03\"/>



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.6542 PRO

Yo, Hernán E. López Sáez, Ingeniero Bando 1051, certifico que soy el profesional que certificaré, diseñaré, proyectaré, ejecutaré y las modificaciones completaré en el presente proyecto. También certifico que a efectos de dicho diseño y modificación he cumplido con los deberes establecidos en el Reglamento de Control de Ejecución de Obras de Ingeniería y Construcción de la Comisión de Control de Obras de Ingeniería y Construcción de la Corporación Pública de San Juan, Puerto Rico. Asimismo, que cualquier modificación que se realice en el futuro será por escrito y será aprobada por el profesional que me sucede en el cargo y en mi nombre. Este documento es válido únicamente para el presente proyecto y no puede ser usado para ningún otro propósito sin el consentimiento escrito del profesional que me sucede en el cargo y en mi nombre.

EN.Z.O.
Engineering, psc.
PO BOX 3040, PMB 427
GUAYAMA, PR 00973
TEL: (787) 649-6200 | LOPEZDAEZ@ENZORGROUPLLC.ORG



HERNÁN E. LÓPEZ SÁEZ, P.E. MEM
LIC. 11376

BUS STOP SIGNAGE PROJECT - PHASE 1 ROUTE 9 | BUS STOP #20

FROM CUPEY TO SAN JUAN
BORINQUEN AVENUE BEFORE HÉCTOR URDANETA
MUNICIPALITY OF SAN JUAN

AUTORIDAD
METROPOLITANA DE
AUTOBUSES



METROPOLITAN BUS AUTHORITY
BOX 195343
SAN JUAN, PR 00919-5343

REVISION	
DATE: JUNE 2022	DRAW BY: BEV
CHECKED BY: BEV	ABZ
DWG. TYPE: TS-120	SHEET NO. 26
	OF 26
	89

ROUTE 9 | BUS STOP #21

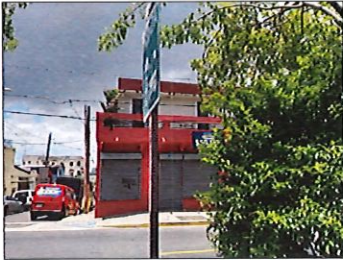


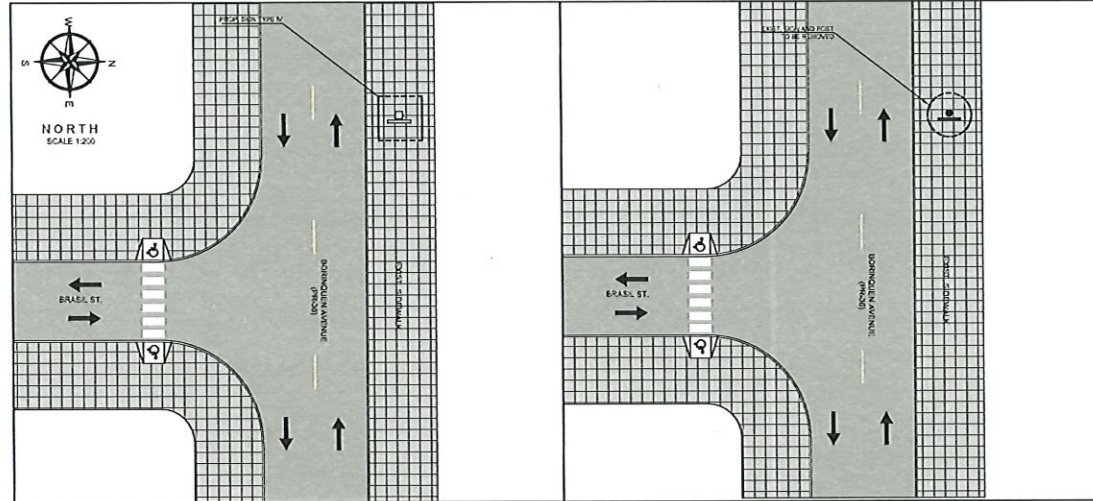
PHOTO - 1



PHOTO - 2

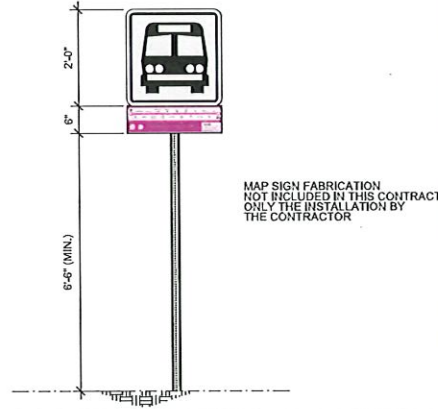
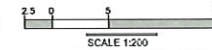


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#21

EXIST. CONDITIONS - ROUTE 9 | B.S.#21



MAP SIGN FABRICATION
NOT INCLUDED IN THIS CONTRACT
ONLY THE INSTALLATION BY
THE CONTRACTOR

NOT TO SCALE

LEGEND:

- ▬ PROP. SIGN TYPE I
- ▬ PROP. SIGN TYPE II
- ▬ PROP. SIGN TYPE III
- ▬ PROP. SIGN TYPE IV
- EXIST. SIGN
- ▬ PRMSA EXCLUSIVE LANE (MMA LANE)
- ⇕ TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEVELOPMENT AND TYPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK STARTING TO THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL MAINTAIN THE EXISTING SIGN AND TRAFFIC POLE, THESE STRUCTURES SHALL BE MAINTAINED TO THE PROPERTY PERSONAL.
4. IF THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN EDUCATIONAL.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING MESH UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
7. IF THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TREE, THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH THE CHIEF OF THE MUNICIPALITY OF SAN JUAN ABOUT THE SAME TO INSTALL SIGN THREE FEET (3) METERS TO PROTECT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE EXISTING ONE LANE.



LOCATION PLAN
SCALE 1:20,000
18°26'16.65"N, 66°5'29.14"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo permiti... (Small text at the bottom right of the page, likely a disclaimer or note in Spanish.)

ENZO
Engineering, psc.
PO Box 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOENGINEERING.COM



BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #21
FROM CUPEY TO SAN JUAN
BORINQUEN AVENUE INT. SEVERO QUIÑONES ST.
MUNICIPALITY OF SAN JUAN



METROPOLITAN BUS AUTHORITY
BOX 150343
SAN JUAN, PR 00913-0349

REVISION	
DATE: JUNE 2022	DRAW BY: ABZ
CHECKED BY: BEV	SHEET NO. 27
DWG. TYPE:	OF
TS-1.21	89

ROUTE 9 | BUS STOP #23



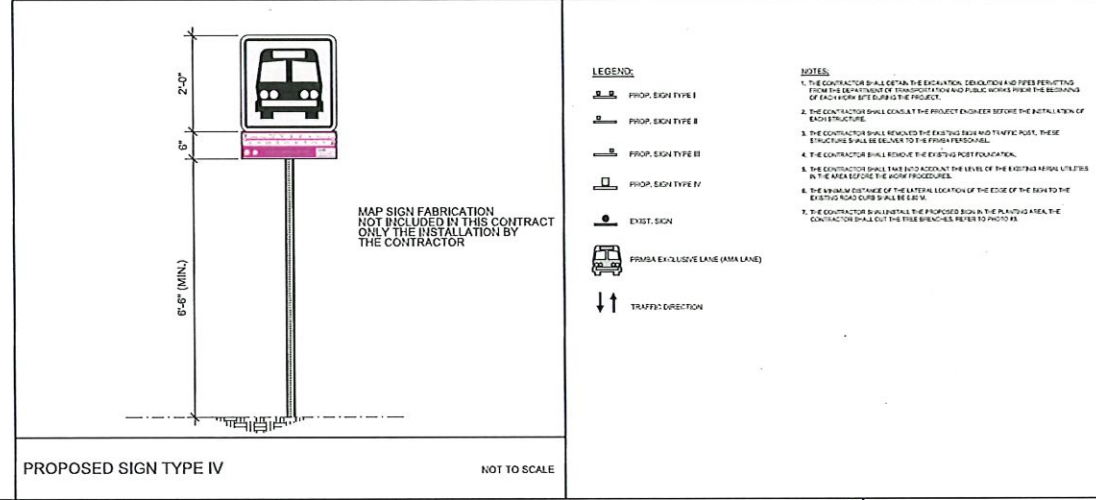
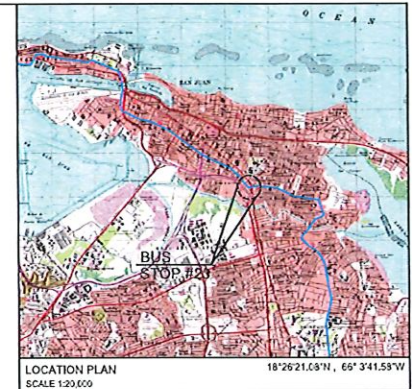
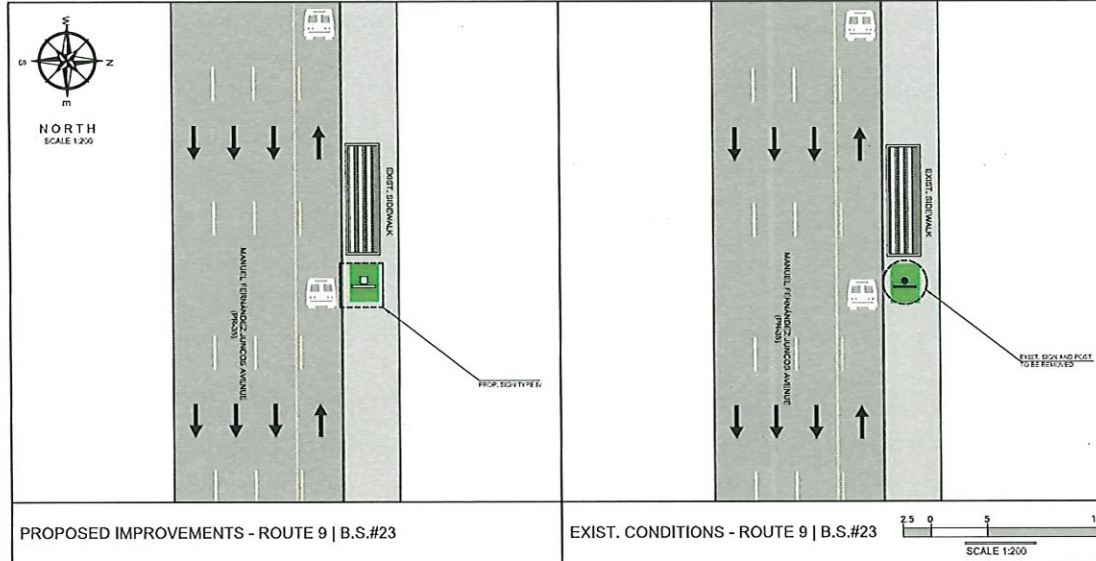
PHOTO - 1



PHOTO - 2



PHOTO - 3: PROPOSED SIGN LOCATION



E.N.Z.O.
engineering, psc.
PO Box 3040, PMB 427
GUAYAMA, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZODGROUPFLLC.DR



BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #23
FROM CUPEY TO SAN JUAN
EXCLUSIVE LANE MANUEL FERNÁNDEZ JUNCOS AVE. AFTER JORDÁN ST.
MUNICIPALITY OF SAN JUAN



METROPOLITAN BUS AUTHORITY
BOX 155343
SAN JUAN, PR 00915-5349

REVISION	
DATE: JUNE 2022	DRAWN BY: ABZ
CHECKED BY: BEV	DWG. TYPE: SHEET NO. 28
TS-1.22	OF 89

Yo Hernán E. López Báez, Ingeniero Civil, certificado en el ejercicio de la profesión, declaro que el presente informe es un documento profesional confiable y veraz, elaborado de acuerdo a la normativa y procedimientos que rigen el ejercicio de la profesión de Ingeniería Civil, de conformidad con el Código de Ética de la Ingeniería Civil y las Normas Técnicas de la Autoridad Metropolitana de Autobuses, y en cumplimiento de las obligaciones que me imponen la Ley y el Código de Ética de la Ingeniería Civil, por lo que me comprometo a mantenerlo actualizado y disponible a los interesados en él.

ROUTE 9 | BUS STOP #24



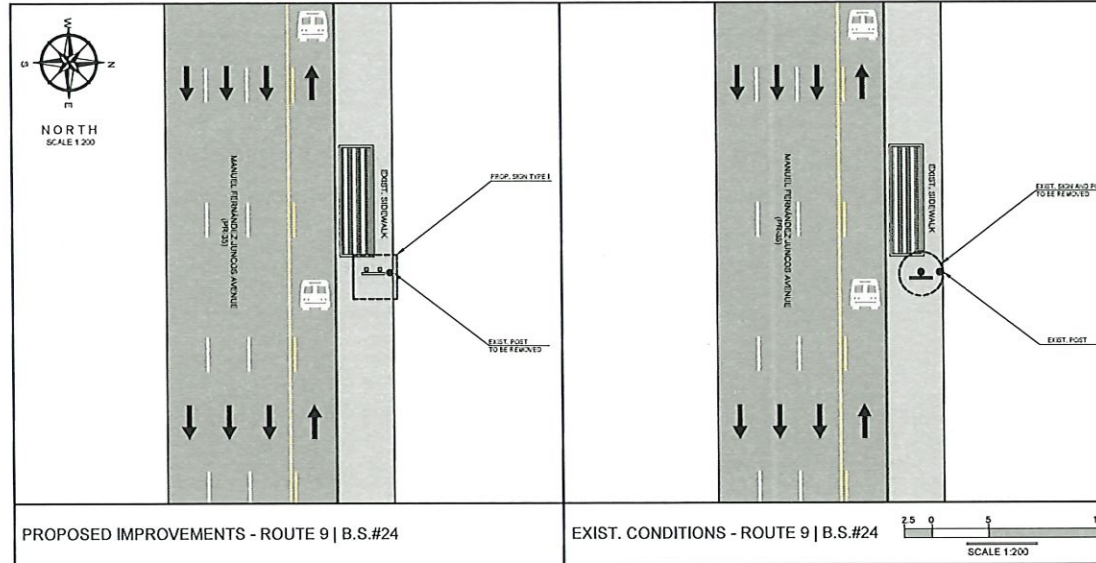
PHOTO - 1



PHOTO - 2

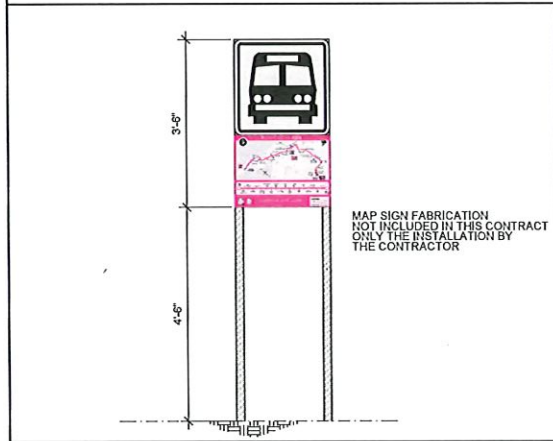


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#24

EXIST. CONDITIONS - ROUTE 9 | B.S.#24



PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE B
- PROP. SIGN TYPE BI
- PROP. SIGN TYPE BV
- EXIST. SIGN
- FFMVA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION EROSION AND FLOOD PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF ANY WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DELIVERED TO THE FUNDAS PERSONAL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEEDS.
6. THE MINIMUM CLEARANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 5.0 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN IDEAL AREA NEXT TO EXIST. THE CONTRACTOR SHALL REMOVE THE OTHER POST WITHOUT EACH REFER TO PHOTO #1.



LOCATION PLAN
SCALE 1:20,000
18°26'31.25"N, 66°3'51.99"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.6642 PRO

Se autoriza E. Lopez Baez, Ingeniero Baccalaureado en Ingeniería Civil, a que actúe como representante de la Autoridad Metropolitana de Autobuses (AMA) en el proyecto de instalación y mejoramiento de la parada de autobús #24 en la Ruta 9, San Juan, PR. El presente documento es propiedad de la AMA y no debe ser distribuido fuera de ella. Toda reproducción o uso no autorizado de este documento será sancionado. Se prohíbe la explotación económica de este documento sin el consentimiento escrito de la AMA. El presente documento es propiedad de la AMA y no debe ser distribuido fuera de ella. Toda reproducción o uso no autorizado de este documento será sancionado. Se prohíbe la explotación económica de este documento sin el consentimiento escrito de la AMA.

E.N.Z.O.
Engineering, psc.
PO Box 3040, PMB 427
GUAYAMA, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZODROUPLLC.COM

HERNÁN E. LOPEZ BAEZ, PE MEW
LIC. 181545

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #24
FROM CUPEY TO SAN JUAN
EXCLUSIVE LANE MANUEL FERNÁNDEZ JUNCOS AVE.
AFTER SAN JORGE ST. MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD
METROPOLITANA DE AUTOBUSES
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE	JUNE 2022
CHECKED BY	BEV
DWG. TYPE	TS-1.23
DRAWN BY	ABZ
SHEET NO.	29
OF	69

ROUTE 9 | BUS STOP #25

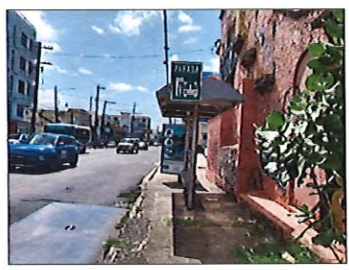


PHOTO - 1



PHOTO - 2

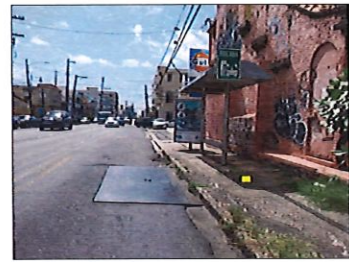
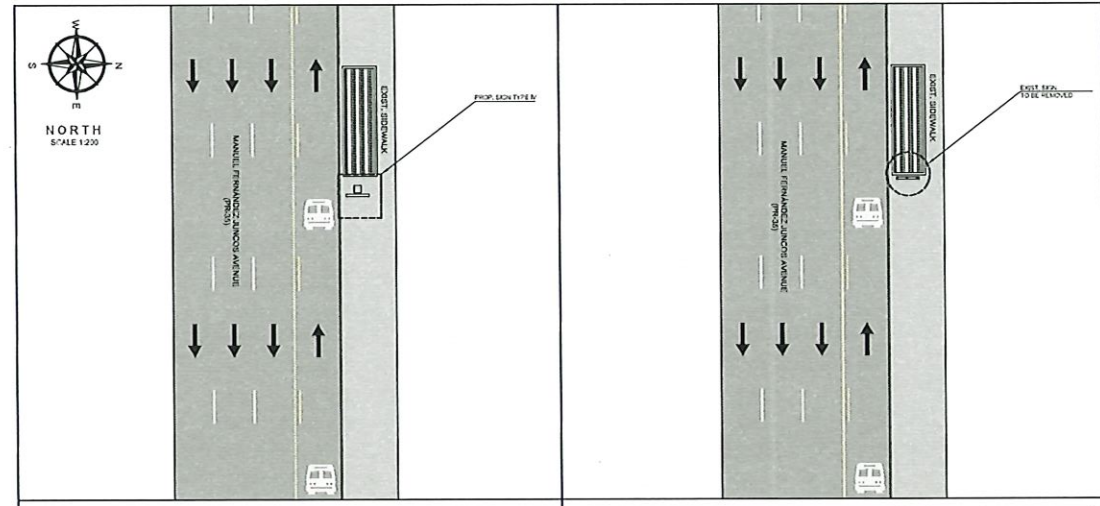
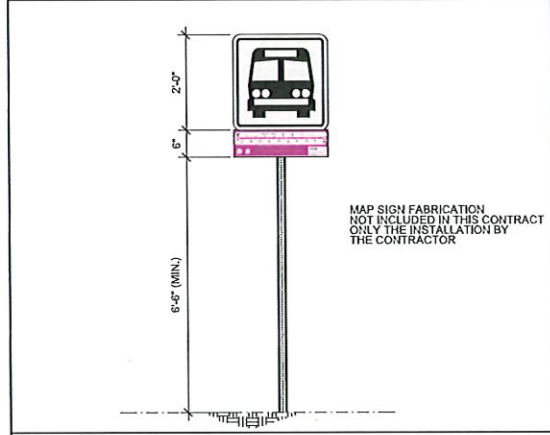


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#25

EXIST. CONDITIONS - ROUTE 9 | B.S.#25



PROPOSED SIGN TYPE IV

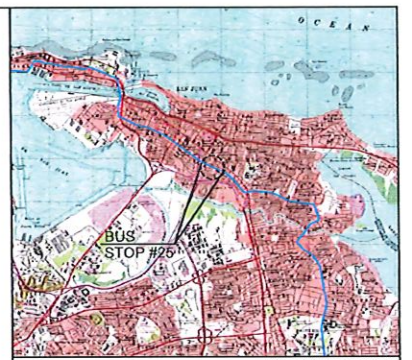
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- PROP. SIGN TYPE V
- EXIST. SIGN
- FRUSTRATED EXCLUSIVE LANE (Frustrated Lane)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEVELOPMENT AND TYPES PERMITTED FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS FROM THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONDUCT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN. THESE STRUCTURES SHALL BE DELIVERED TO THE PRIMA PERSONAL.
4. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 10 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE DESIGNATED AREA REFERRED TO PHOTO 3.



LOCATION PLAN 18°26'34.83"N, 68°40'19"W SCALE 1:20,000



AERIAL PHOTO SCALE 1:1,000 GOOGLE EARTH VERSION: 7.3.4.8542 PRO

Yo, Hernán E. López Baez, Ingeniero Civil, M.Sc., certificado por el Colegio de Ingenieros Civiles de Puerto Rico, y el Sr. Víctor López Baez, Ingeniero Civil, M.Sc., certificado por el Colegio de Ingenieros Civiles de Puerto Rico, somos los autores de este proyecto de ingeniería. Nos comprometemos a cumplir con los estándares de calidad y seguridad exigidos por el Código de Regulación y Construcción de San Juan, Puerto Rico. Este documento es propiedad intelectual de EN-Z.O. Ingeniería, psc. y no debe ser reproducido ni distribuido sin el consentimiento escrito de EN-Z.O. Ingeniería, psc. Las especificaciones técnicas y los planos de este proyecto son propiedad de EN-Z.O. Ingeniería, psc. y no deben ser utilizados sin el consentimiento escrito de EN-Z.O. Ingeniería, psc.

EN-Z.O.
Engineering, psc.
PO BOX 3040, PHB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZORGPULLC.ORG



BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #25
FROM CUPEY TO SAN JUAN
EXCLUSIVE LANE MANUEL FERNÁNDEZ JUNCOS AVE.
BEFORE VÍCTOR LÓPEZ MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES



METROPOLITANA BUS AUTHORITY
BOX 198519
SAN JUAN, PR 00919-5349

REVISION	
DATE:	JUNE 2022
CHECKED BY:	DRAW BY:
BEV	ABZ
DWG. TYPE:	SHEET NO.
TS-1.24	30 OF 89

ROUTE 9 | BUS STOP #26



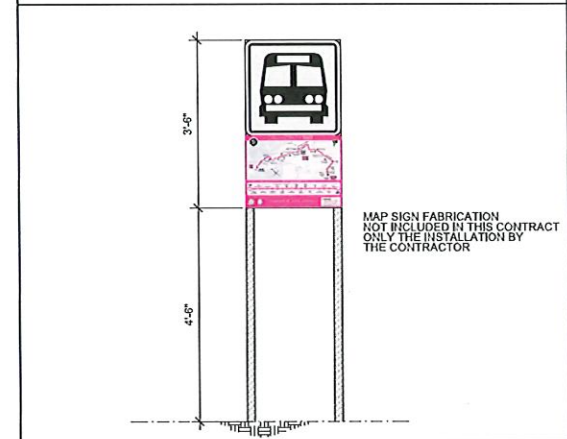
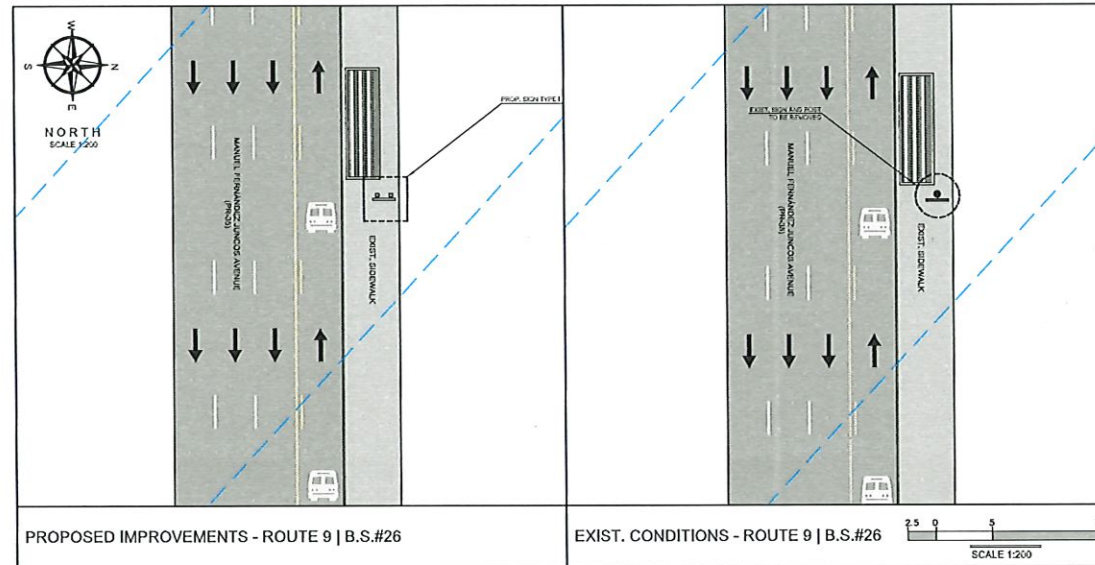
PHOTO - 1



PHOTO - 2



PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED SIGN TYPE I

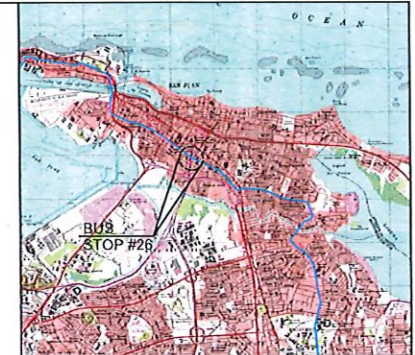
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PROPSA EXCLUSIVE LANE (MIN LANE)
- TRAFFIC DIRECTION

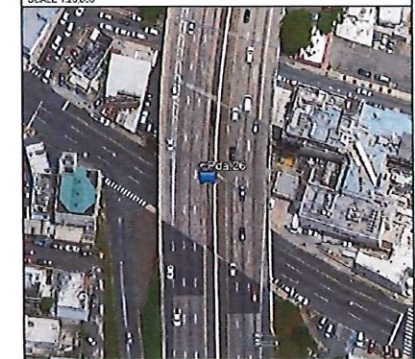
NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEVELOPMENT AND TYPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK BEFORE THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURES SHALL BE DELIVER TO THE PROPSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POLE FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN DESIGN AREA, REFER TO PROJECT.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 6.00 M.



LOCATION PLAN
SCALE 1:20,000

18° 26' 41.13\"/>



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.6642 PRO

ENZO
Engineering, psc.
PO BOX 3040, PMB 427
SURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOSGROUP. LLC

HERNÁN E. LOPEZ BÁEZ PE MEM
LIC. 15174

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #26
FROM CUPEY TO SAN JUAN
EXCLUSIVE LANE MANUEL FERNÁNDEZ JUNCOS AVE.
BEFORE LLOVERAS ST. MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 155343
SAN JUAN, PR 00915-5349

REVISION	
DATE: JUNE 2022	DRAWN BY: ABZ
CHECKED BY: BEV	DWG. TYPE: TS-1.25
31	OF

ROUTE 9 | BUS STOP #28



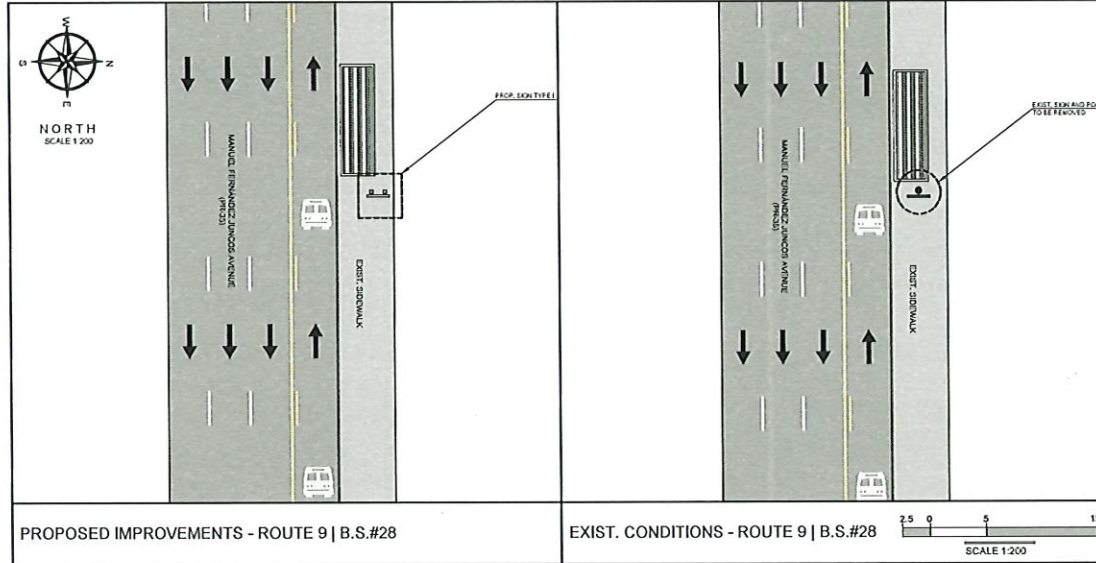
PHOTO - 1



PHOTO - 2

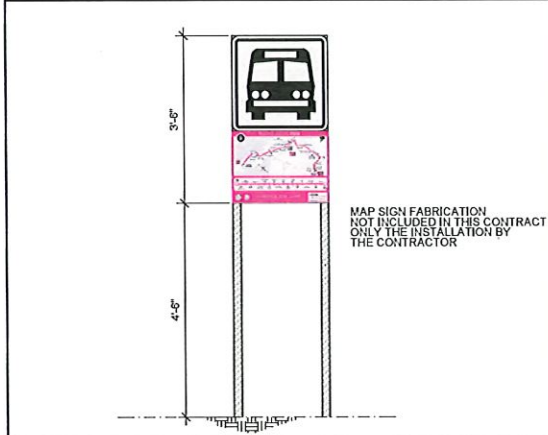
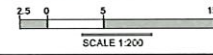


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#28

EXIST. CONDITIONS - ROUTE 9 | B.S.#28



PROPOSED SIGN TYPE I

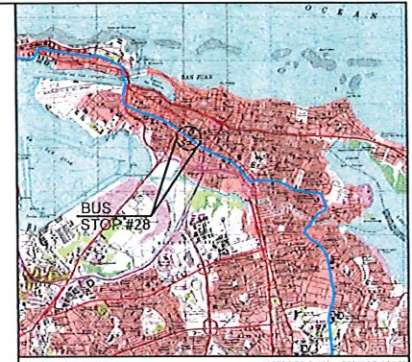
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS AND APPROVALS FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH YEAR OF THE DURATION OF THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURES SHALL BE SECURED TO THE PUBLIC PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN NEXT TO FENCE, REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000
18°26'50.94\"/>



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4 6642 PRO

El Ingeniero E. Lopez Baez, Agente de la Ley 1076, certifica que esta obra de ingeniería fue concebida, diseñada y proyectada por él o por un profesional que trabaja bajo su supervisión y control. Toda obra de ingeniería que se realice en virtud de este certificado de aprobación profesional, será responsabilidad del profesional que la autoriza. Este certificado no garantiza la calidad de la obra ni la seguridad de la misma. El profesional que autoriza este certificado no se responsabiliza por los daños o perjuicios que se ocasionen por el uso de la obra o por el uso de los materiales que se empleen en ella.

ENZO
Engineering, psc.
PO Box 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZODRUPCLLCC.ORG

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #28
FROM CUPEY TO SAN JUAN
EXCLUSIVE LANE MANUEL FERNÁNDEZ JUNCOS AVE. FRONT
AGRICULTURE DEPARTMENT MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD
METROPOLITAN BUS AUTHORITY
BOX 19349
SAN JUAN, PR 00919-5349

REVISION	
DATE	JUNE 2022
CHECKED BY	ABZ
DWG. TYPE	SHEET NO. 33
TS-1.27	OF 89

ROUTE 9 | BUS STOP #29



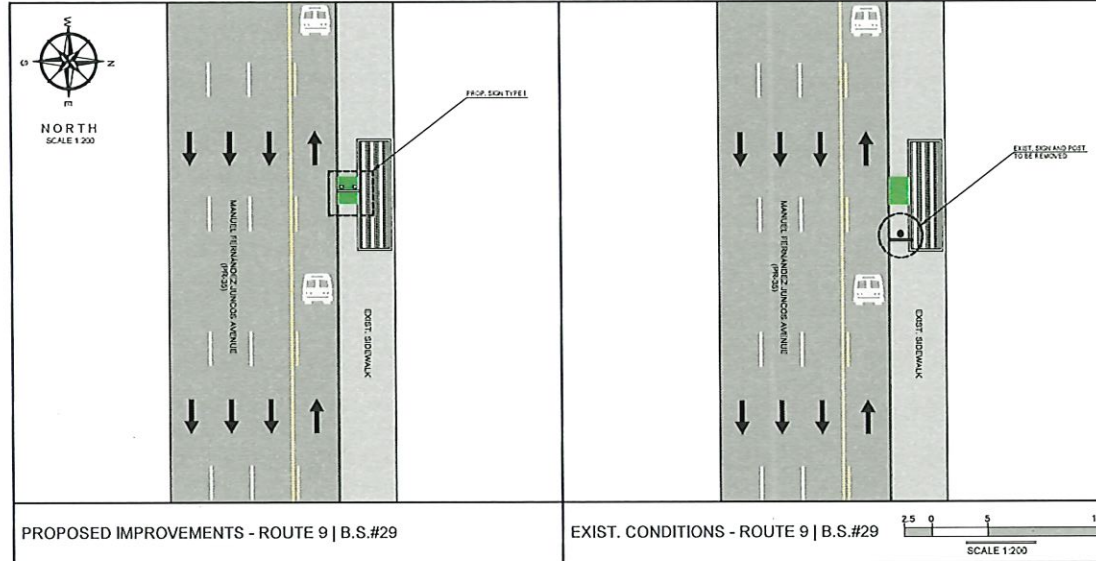
PHOTO - 1



PHOTO - 2

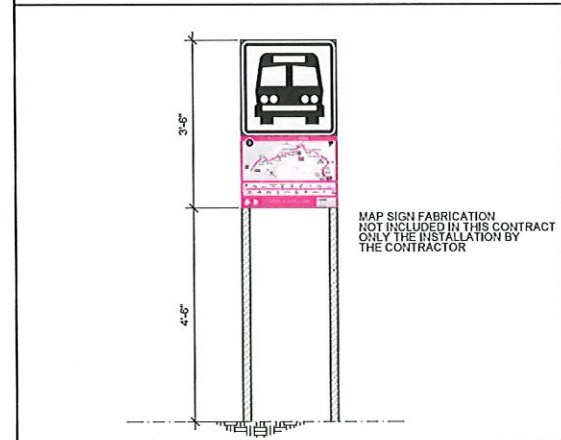
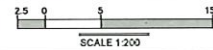


PHOTO - 3. PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#29

EXIST. CONDITIONS - ROUTE 9 | B.S.#29



PROPOSED SIGN TYPE I

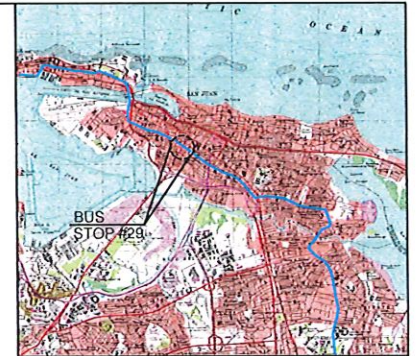
NOT TO SCALE

LEGEND:

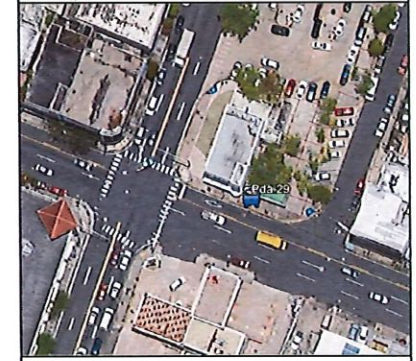
- PROP. SIGN TYPE I
- PROP. SIGN TYPE B
- PROP. SIGN TYPE BII
- PROP. SIGN TYPE BIV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EDUCATION, EDUCATION AND PERMITTING FROM THE LOCAL AGENCIES OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH PHASE OF THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURES SHALL BE KEPT AS IS TO THE FURthest POSSIBLE.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING ASPHALT LIFES IN THE AREA BEFORE THE WORK PROCEEDS.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 6'-0".
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN PLANTING AREA, REFER TO PHOTO 1B.



LOCATION PLAN
SCALE 1:20,000
18°26'55.14\"/>



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.6642 PRO

Yo, Hernán E. López Baez, Agente de la Ley 104, certifico que soy el profesional que redactó este proyecto y que soy responsable de su exactitud y veracidad. Asimismo, certifico que el presente proyecto ha sido elaborado de acuerdo con las disposiciones técnicas y de procedimiento de la Ley 104 y sus reglamentos. Asimismo, certifico que el presente proyecto ha sido elaborado de acuerdo con las disposiciones técnicas y de procedimiento de la Ley 104 y sus reglamentos. Asimismo, certifico que el presente proyecto ha sido elaborado de acuerdo con las disposiciones técnicas y de procedimiento de la Ley 104 y sus reglamentos. Asimismo, certifico que el presente proyecto ha sido elaborado de acuerdo con las disposiciones técnicas y de procedimiento de la Ley 104 y sus reglamentos.

ENZO
engineering, psc.
PO Box 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZODRUPCLLC.ORG



BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #29
FROM CUPEY TO SAN JUAN
EXCLUSIVE LANE MANUEL FERNÁNDEZ JUNCOS AVE. INT.
ROBERTO H. TOOD AVE. (PARADA 18) MUNICIPALITY OF SAN JUAN



METROPOLITANA BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE	JUNE 2022
CHECKED BY	BEV
DWG. TYPE	TS-1.28
DRAWN BY	ABZ
SHEET NO.	34
OF	69

ROUTE 9 | BUS STOP #31



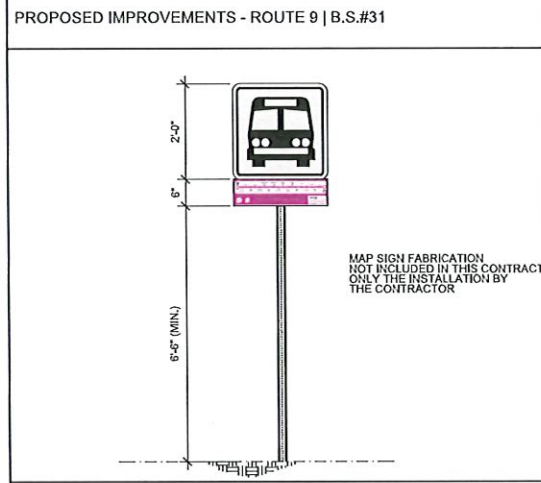
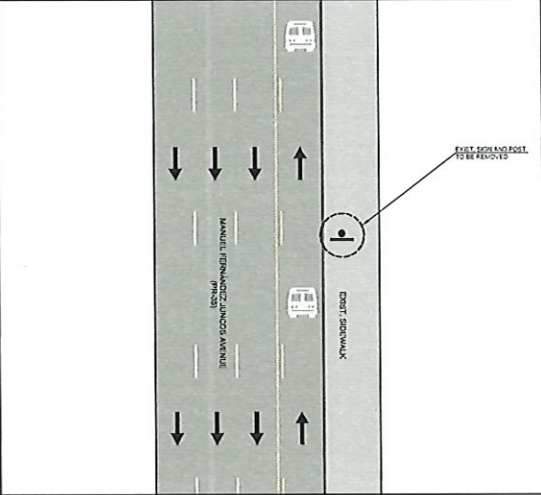
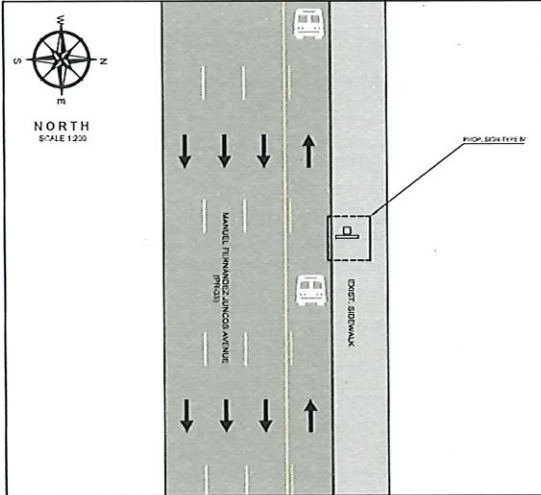
PHOTO - 1



PHOTO - 2



PHOTO - 3: PROPOSED SIGN LOCATION

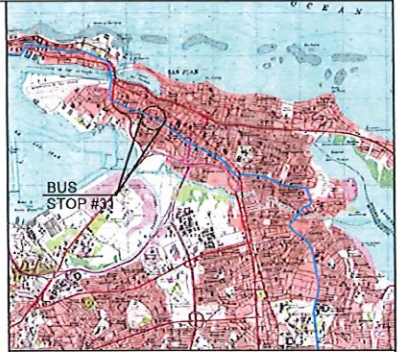


LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (ASA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL DETAIL THE EXCAVATION, SEVERATION AND TYPES PERMITTED FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS FROM THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POSTS, THESE STRUCTURES SHALL BE DELIVERED TO THE OWNER PERSONALLY.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE ELEVATION OF THE EXISTING METAL LITERIES IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 6:00 FT.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN BECA AN AREA PREFER TO PHOTO 3.



EN.Z.O. engineering, psc.

PO BOX 3040, PH 827
SABADO, PR 00773
TEL: (787) 649-6200 | LOPEZBAEZ@ENZOBROUPLLC.ORG



BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #31

FROM CUPEY TO SAN JUAN
EXCLUSIVE LANE MANUEL FERNANDEZ JUNCOS AVE. INT. CERRA ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES

METROPOLITANA BUS AUTHORITY
BOX 186510
SAN JUAN, PR 00918-5340

REVISION	

DATE: JUNE 2022
CHECKED BY: BEV
DRAWN BY: ABZ
DWG. TYPE: TS-1.30
SHEET NO. 36
OF 89

Yo, Hernán E. López Baéz, Ingeniero Bachelar en Civil, certificado que soy el profesional que autorizo, diseñó, y proyectó esta obra y la especificación de los materiales. Tanto los cálculos como los detalles de esta obra fueron elaborados por el Ingeniero Civil Hernán E. López Baéz, quien es el profesional responsable de esta obra. Este documento es propiedad de la Corporación Metropolitana de Autobuses y no debe ser distribuido, copiado, reproducido o usado para cualquier otro fin sin el consentimiento escrito de la Corporación Metropolitana de Autobuses. El presente documento es confidencial y no debe ser divulgado a terceros sin el consentimiento escrito de la Corporación Metropolitana de Autobuses.

ROUTE 9 | BUS STOP #30

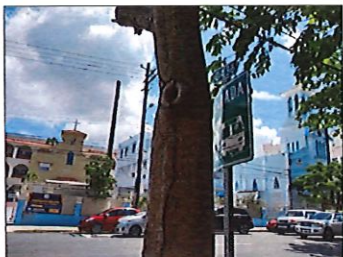


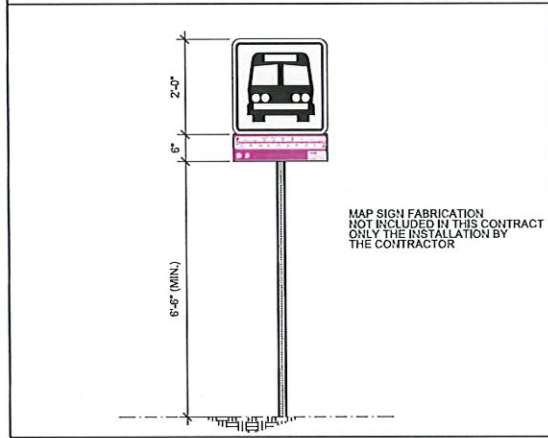
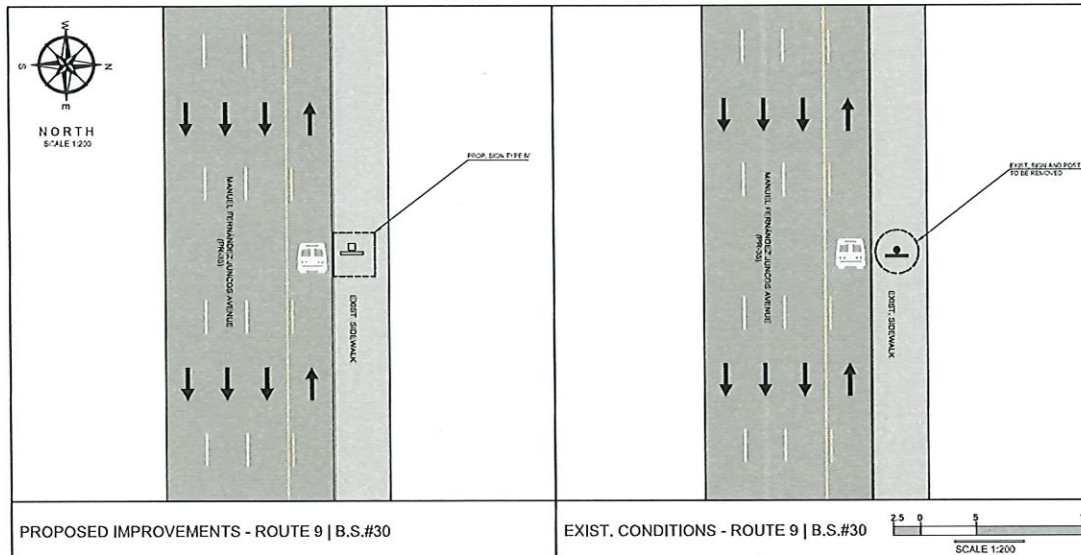
PHOTO - 1



PHOTO - 2



PHOTO - 3: PROPOSED SIGN LOCATION

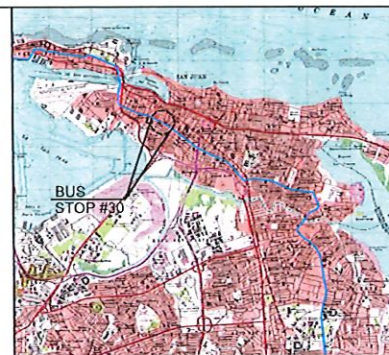


LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRVSA EXCLUSIVE LANE (MM LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE ESCRIPTION, DEVIATION AND TYPES RESULTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIDEWALK TRAFFIC POLE. THESE STRUCTURES SHALL BE INSTALLED TO THE PROPER PERSONALITY.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POLE FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING NORMAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURE.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 2.00 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN SIDEWALK AREA 1.40 OR 2.00 M FROM THE CURB. REFER TO PHOTO #1.



ROUTE 9 | BUS STOP #33



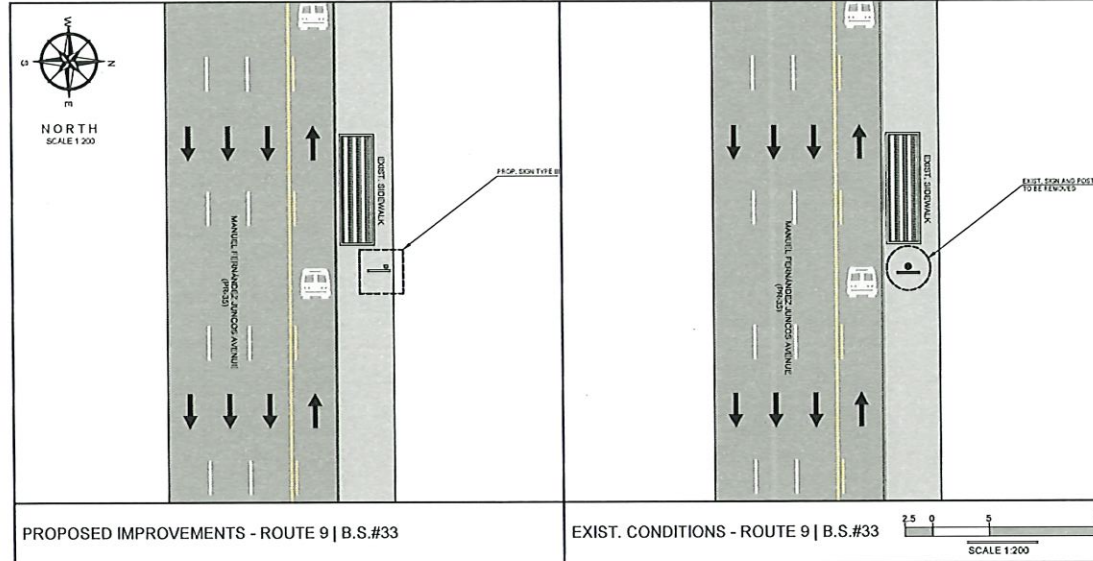
PHOTO - 1



PHOTO - 2

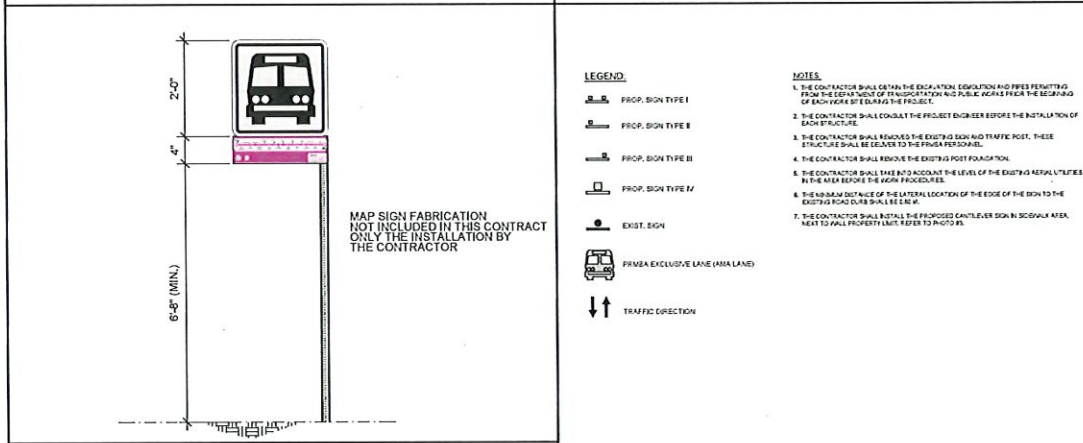
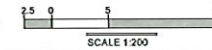


PHOTO - 3. PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#33

EXIST. CONDITIONS - ROUTE 9 | B.S.#33



PROPOSED SIGN TYPE III

NOT TO SCALE

LEGEND

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRIME EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES

1. THE CONTRACTOR SHALL OBTAIN THE EDUCATION, EDUCATION AND PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DELIVERED TO THE PRIMA PERSONAL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE SIGN PROCEDURE.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 5.0 FT.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED CANTILEVER SIGN IN SIGNAL AREA, NEXT TO FULL PROPERTY LINE REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000

18°27'13.25\"/>



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.6642 PRO

El Ingeniero E. Lopez Baez, Agente, licencia 18154, certifica que este proyecto fue elaborado, diseñado y ejecutado en su totalidad de acuerdo a las especificaciones técnicas y normas. Asimismo, certifica que este proyecto y sus modificaciones cumplen con los requisitos establecidos en el Reglamento General de Especificaciones y Normas de las Infraestructuras y Obras de Construcción, Sistema de las Agencias de Regulación y Supervisión Pública por parte de la Autoridad Metropolitana de Autobuses. Asimismo, certifica que cualquier modificación a este proyecto de obra fue aprobada por el Ingeniero responsable de la ejecución de la obra y que el mismo fue aprobado por el Ingeniero responsable de la obra y que el mismo fue aprobado por el Ingeniero responsable de la obra y que el mismo fue aprobado por el Ingeniero responsable de la obra.

E.N.Z.O.
Engineering, psc.
PO Box 3040, PMB 427
BURASO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.COM

HERNÁNDEZ LOPEZ BAEZ, PE MEM
LIC. 18154-E

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #33
FROM CUPEY TO SAN JUAN
EXCLUSIVE LANE MANUEL FERNÁNDEZ JUNCOS AVE. AFTER MIRAMAR ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 150349
SAN JUAN, PR 00918-0349

REVISION	
DATE: JUNE 2022	DRAWBY:
CHECKED BY: BEV	ABZ
DWG. TYPE:	SHEET NO. 38
TS-1.32	OF 89

ROUTE 9 | BUS STOP #9



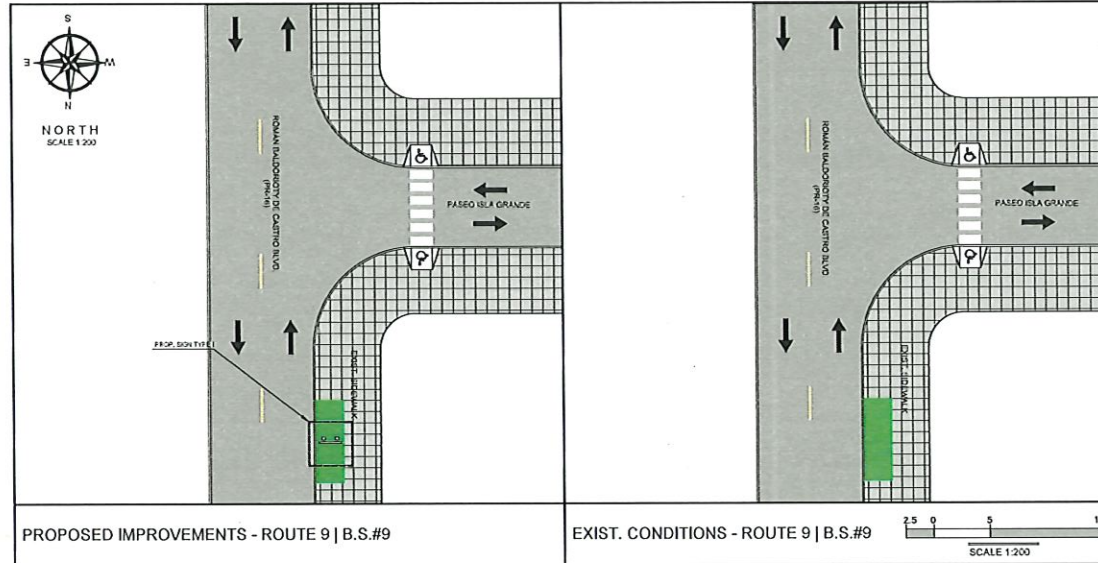
PHOTO - 1



PHOTO - 2

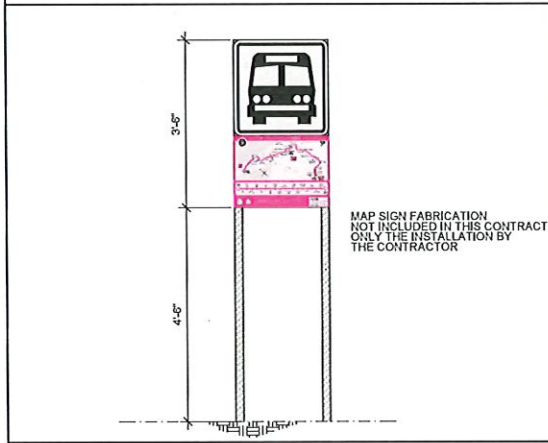
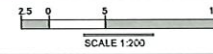


PHOTO - 3. PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#9

EXIST. CONDITIONS - ROUTE 9 | B.S.#9



PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE B
- PROP. SIGN TYPE BI
- PROP. SIGN TYPE IV
- EXIST. SIGN
- FRMSA EXCLUSIVE LANE (BMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMISSIONS AND PERMITS FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF ANY WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANNED AREA IN FRONT OF THE STOP REFER TO NOTES 1.
4. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 5.0M.



LOCATION PLAN
SCALE 1:20,000
18°27'19.43"N, 66°5'15.68"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.6642 PRO

El Ingeniero E. Lopez Baez, Agente Autorizado de la Oficina de Ingenieros que emite esta licencia, declara y garantiza que el presente proyecto de obra ha sido elaborado con la debida diligencia y que el mismo cumple con los requisitos establecidos en el Reglamento General de la Inspección de Obras de Ingeniería Civil de la Corporación Puertorriqueña de Ingeniería Civil y que el mismo cumple con los requisitos establecidos en el Reglamento General de la Inspección de Obras de Ingeniería Civil de la Corporación Puertorriqueña de Ingeniería Civil. Asimismo, garantiza que el presente proyecto de obra cumple con los requisitos establecidos en el Reglamento General de la Inspección de Obras de Ingeniería Civil de la Corporación Puertorriqueña de Ingeniería Civil. Este documento es propiedad intelectual y no debe ser reproducido, copiado, distribuido o utilizado sin el consentimiento escrito del Ingeniero E. Lopez Baez.

ENZO
engineering, psc.
PO Box 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZODRUPCLLC.ORG



BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #9
FROM SAN JUAN TO CUPEY
MANUEL FERNÁNDEZ JUNCOS AVE.
AFTER BALDORIOTY DE CASTRO BULEVARD MUNICIPALITY OF SAN JUAN



METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE	JUNE 2022
CHECKED BY	BEV
DWG. TYPE	TS-2.01
DRAWN BY	ABZ
SHEET NO.	39
OF	69

ROUTE 9 | BUS STOP #10



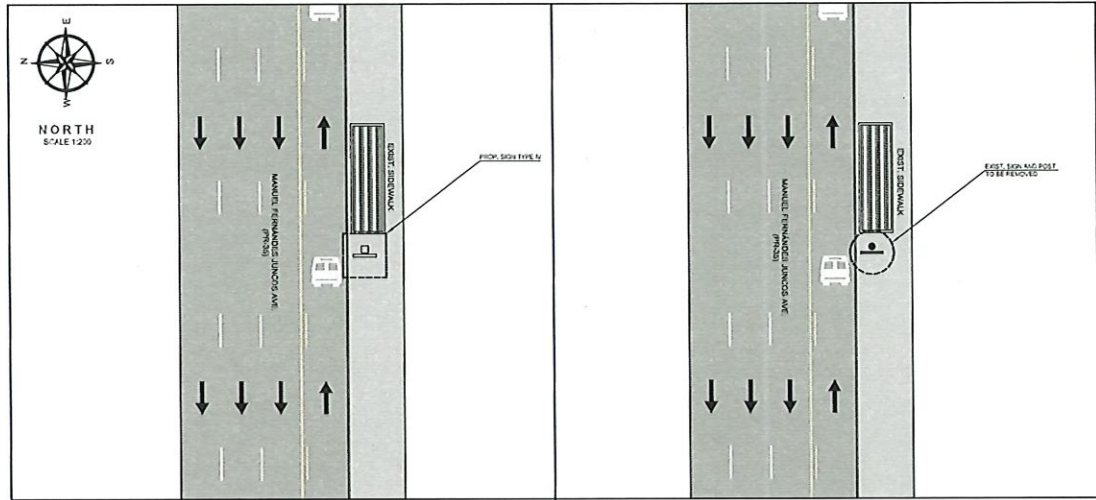
PHOTO - 1



PHOTO - 2

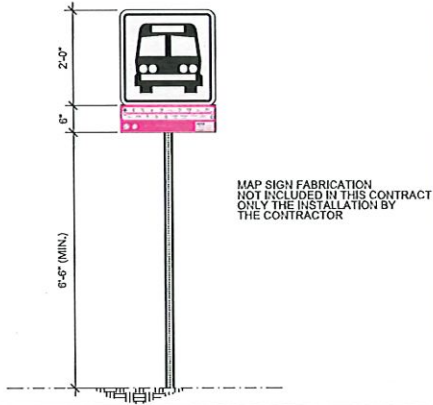
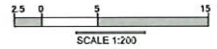


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#10

EXIST. CONDITIONS - ROUTE 9 | B.S.#10



PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (MIA LAN)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL DETAIL THE ELEVATION, DEVIATION AND PILES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS FROM THE BEGINNING OF EACH WORK SIDE TO THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POSEL. THESE STRUCTURES SHALL BE OWNED BY THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN A SETBACK IN FRONT OF THE EXISTING POST REFER TO PHOTO #1.
6. THE CLEARANCE DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 2.0 M.



LOCATION PLAN 18°27'12.63"N, 66°5'11.67"W SCALE 1:20,000



AERIAL PHOTO SCALE 1:1,000 GOOGLE EARTH VERSION: 7.3.4.8542 PRO

Yo, Hernán E. López Baez, Ingeniero de la Ruta 9, certifico que esta información es correcta y verdadera, y que no he sido influenciado por ninguna persona o entidad en la preparación de este informe. Asimismo, certifico que esta información es correcta y verdadera, y que no he sido influenciado por ninguna persona o entidad en la preparación de este informe. Yo, Hernán E. López Baez, Ingeniero de la Ruta 9, certifico que esta información es correcta y verdadera, y que no he sido influenciado por ninguna persona o entidad en la preparación de este informe.

ENZO
engineering, psc.
PO Box 3040, PMB 427
Caguas, PR 00725
TEL: (787) 649-6200 | LOPEZBAEZ@ENZOGRUPOLLO.COM

HERNÁN E. LOPEZ BAEZ
INGENIERO
CARRERA 10
PUERTO RICO
HERNÁN E. LOPEZ BAEZ, PE MEM
LIC. 17494

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #10
FROM SAN JUAN TO CUPEY
MANUEL FERNÁNDEZ JUNCOS AVE. BEFORE MIRAMAR ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD
SAN JUAN, PR 00918-5349

METROPOLITANA DE AUTOBUSES
BOX 185349
SAN JUAN, PR 00918-5349

REVISION	
DATE: JUNE 2022	DRAW BY:
CHECKED BY: BEV	ABZ
DWG. TYPE: TS-2.02	SHEET NO. 40
	OF 10

ROUTE 9 | BUS STOP #11



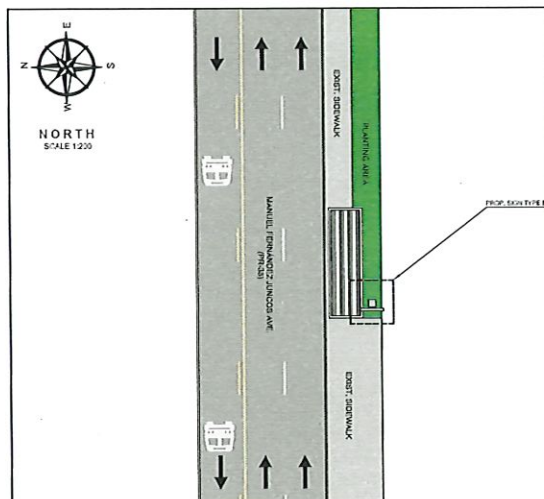
PHOTO - 1



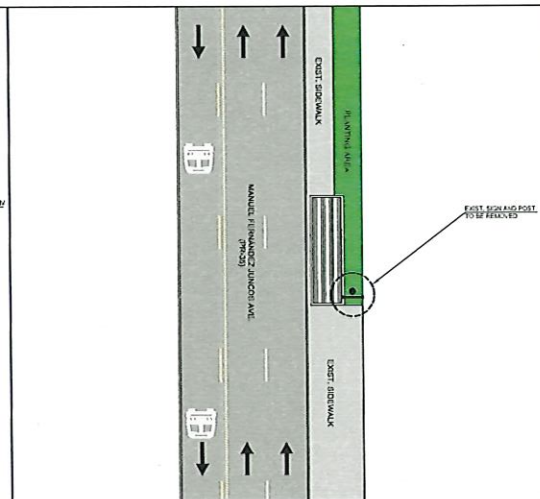
PHOTO - 2



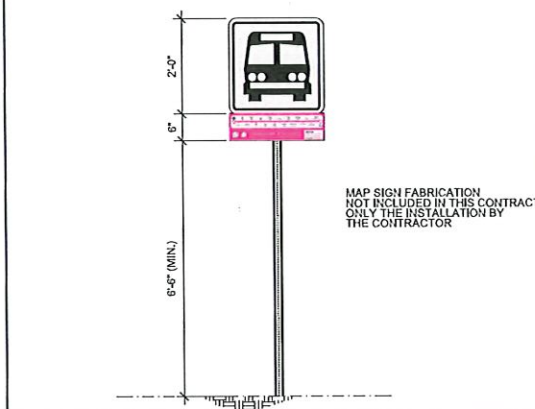
PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#11



EXIST. CONDITIONS - ROUTE 9 | B.S.#11



PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRUSA EXCLUSIVE LANE (MIA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL DETAIL THE EXCAVATION, DEVELOPMENT AND FIXES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS FROM THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POLES, THESE STRUCTURES SHALL BE DELIVERED TO THE PRUSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POLE FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN PLANTING AREA BEHIND THE EXISTING REBEL TOP-SIDE.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 5.0 FT.



LOCATION PLAN

18°27'8.84"N, 66°52'23"W

SCALE 1:20,000



AERIAL PHOTO

SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.6542 PRO

ENZO
engineering, psc.
PO BOX 3040, PMS 427
GUAYAMA, PR 00978
TEL. (787) 649-6200 | LOPEZDAEZ@ENZOGRPULLC.ORG



HERNAN E. LOPEZ DAEZ, PE MEM
LIC. 45496

BUS STOP SIGNAGE PROJECT - PHASE 1 ROUTE 9 | BUS STOP #11

FROM SAN JUAN TO CUPEY
MANUEL FERNÁNDEZ JUNCOS AVE. INT. ESTADO ST.
MUNICIPALITY OF SAN JUAN

AUTORIZADO
**METROPOLITANA DE
AUTOBUSES**



METROPOLITANA BUS AUTHORITY
BOX 195019
SAN JUAN, PR 00919-5019

REVISION

DATE:	REVISION:
DATE: JUNE 2022	
CHECKED BY:	DRAWN BY:
BEV	ABZ
DWG. TYPE:	SHEET NO.:
TS-2.03	41
	OF
	89

ROUTE 9 | BUS STOP #12



PHOTO - 1



PHOTO - 2

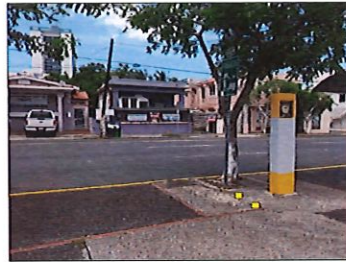
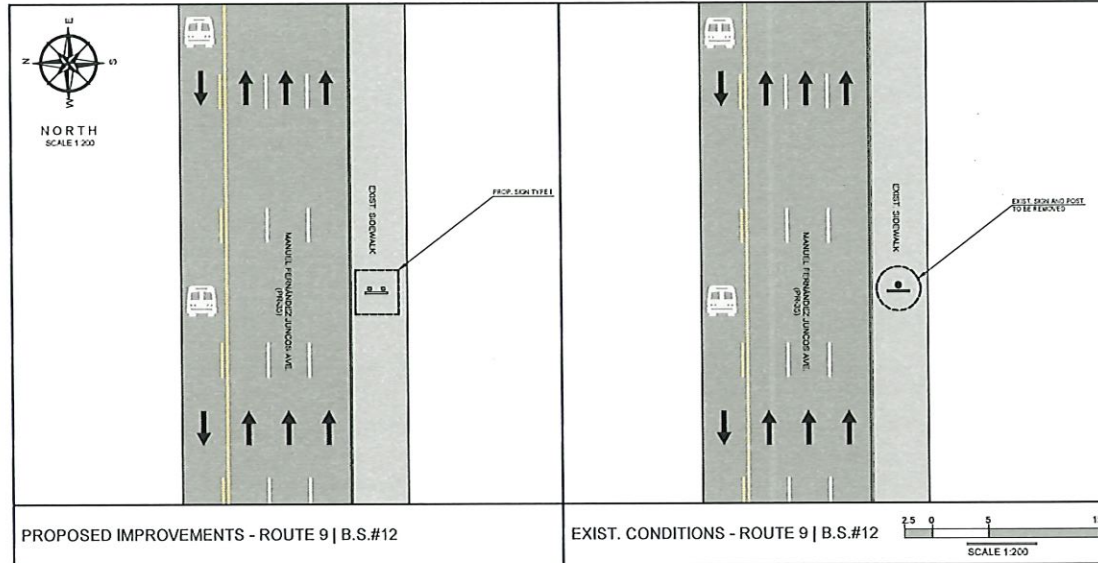
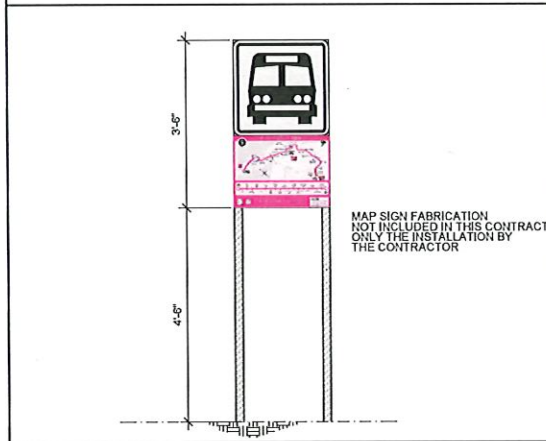


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#12

EXIST. CONDITIONS - ROUTE 9 | B.S.#12



PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- FMSA EXCLUSIVE LANE (ABA LANE)
- TRAFFIC DIRECTION

NOTES

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, ERECTION AND PILING PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DELIVERED TO THE PRUFA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN SIDEWALK BEFORE THE PAUL OF THE SELECTED METER. REFER TO PHOTO #3.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN SIDEWALK BEFORE THE PAUL OF THE SELECTED METER. REFER TO PHOTO #3.
7. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DELIVERED TO THE PRUFA PERSONNEL.
8. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.



LOCATION PLAN
SCALE 1:20,000
18°27'5.21"N, 66°45'1.07"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.6642 PRO

Yo, Hernán E. López Baez, Ingeniero, licenciamiento 18154, declaro que soy el profesional que confeccionó, diseñó y proyectó esta planta y los planos relacionados con ella. Asimismo, declaro que soy el profesional que confeccionó, diseñó y proyectó esta planta y los planos relacionados con ella. Asimismo, declaro que soy el profesional que confeccionó, diseñó y proyectó esta planta y los planos relacionados con ella. Asimismo, declaro que soy el profesional que confeccionó, diseñó y proyectó esta planta y los planos relacionados con ella.

EN·Z·O.
Engineering, psc.
PO Box 3040, PMB 427
GUAYAMA, PR 00978
TEL. (787) 649-6200 | LOPEZBAEZ@ENZODRUPCLL.CORP

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #12
FROM SAN JUAN TO CUPEY
MANUEL FERNÁNDEZ JUNCOS AVE. BEFORE SUAU ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD
METROPOLITANA DE AUTOBUSES

METROPOLITANA BUS AUTHORITY
BOX 126349
SAN JUAN, PR 00918-6349

REVISION	
DATE	JUNE 2022
CHECKED BY	BEV
DWG. TYPE	TS-2.04
DRAWN BY	ABZ
SHEET NO.	42
OF	69

ROUTE 9 | BUS STOP #13



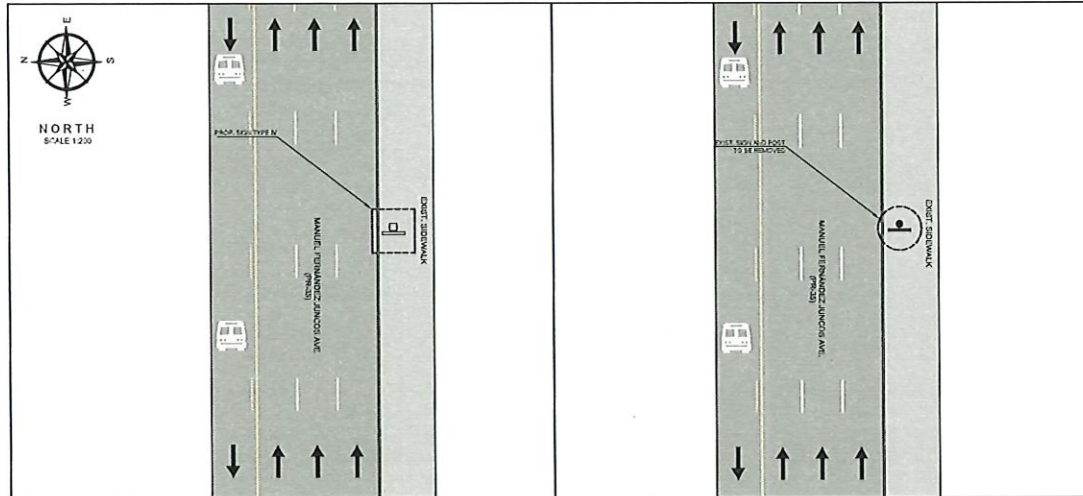
PHOTO - 1



PHOTO - 2

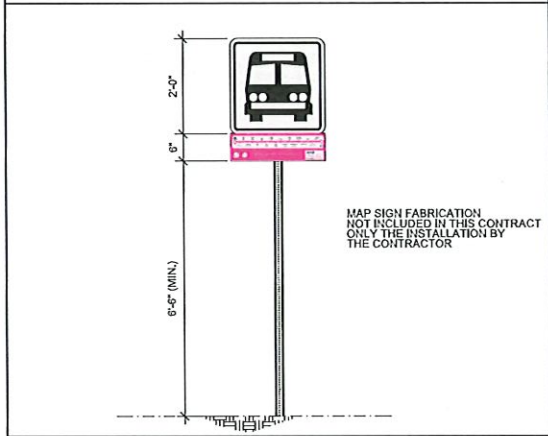


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#13

EXIST. CONDITIONS - ROUTE 9 | B.S.#13



PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (MIA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL DETAIL THE ELEVATION, DEVIATION AND TYPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS FROM THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DEMOLISHED BY THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. IF THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING ADJACENT LOT/FLOT IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.30 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN ACCORDANCE WITH THE REFER TO PD-1013.



LOCATION PLAN
SCALE 1:20,000
18°27'0.50\"/>



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8543 PRO

Yo, Hernán E. López Baez, Ingeniero Bachelo 1954, certificado que tengo el profesional que certificaré, declaro y presto mi fe pública en las especificaciones contenidas en el presente. Tengo entendido que a través de este documento se cumplirá con las directrices técnicas del Programa de Control de la Calidad de las Obras de las Infraestructuras de Transporte de Masas del Gobierno de San Juan, Área Administrativa de Organización Pública por Jurisdicción. Reconozco que cualquier modificación o cambio de las fechas que me haya producido por desajustes de la programación de la obra, me responsabilizo en exclusiva y en primer lugar por el cumplimiento de mis deberes profesionales, y cualquier otro cambio o modificación por la TOPA.

E.N.Z.O.
Engineering, psc.
PO Box 3040, PMB 427
Dorado, PR 00716
TEL: (787) 649-6200 | LOPEZBAEZ@ENZOROUPLLC.ORG

HERNÁN E. LOPEZ BAEZ, PE MEM
LIC. 1545E

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #13
FROM SAN JUAN TO CUPEY
MANUEL FERNÁNDEZ JUNCOS AVE. BEFORE SAN JUAN ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD DE

METROPOLITAN BUS AUTHORITY
BOX 18540
SAN JUAN, PR 00918-5340

REVISION	
DATE: JUNE 2022	DRAW BY: BEV
CHECKED BY: BEV	ABZ
DWG. TYPE: TS-2.05	SHEET NO. 43
	OF 89

ROUTE 9 | BUS STOP #14



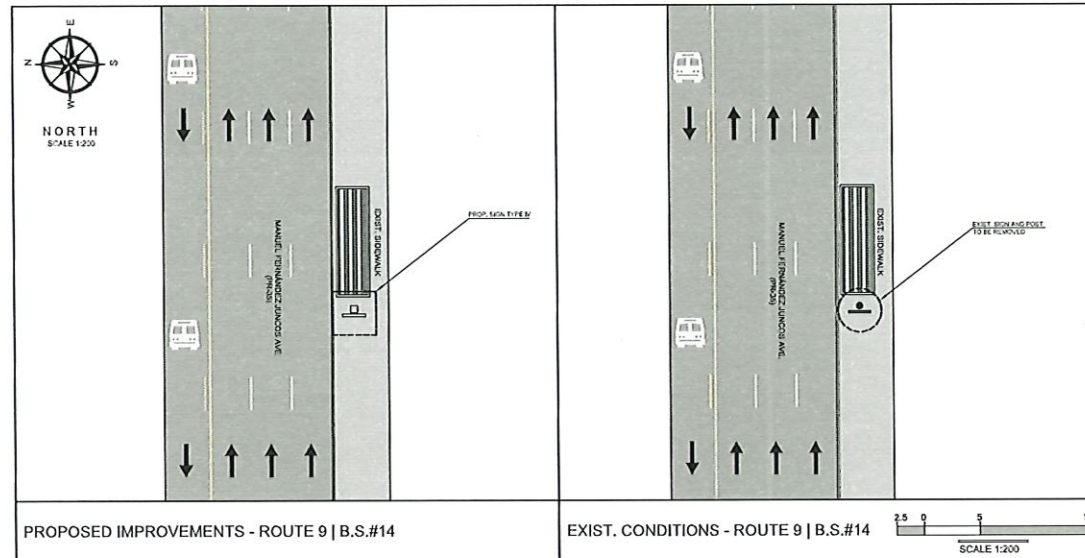
PHOTO - 1



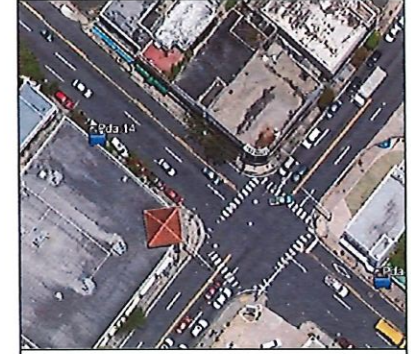
PHOTO - 2



PHOTO - 3: PROPOSED SIGN LOCATION



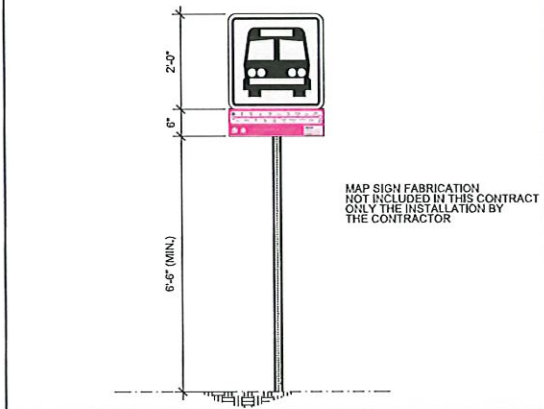
LOCATION PLAN
18°26'55.90\"/>



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#14

EXIST. CONDITIONS - ROUTE 9 | B.S.#14



PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (MIA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL DETAIL THE INSTALLATION, ELEVATION AND TYPES PERMITTED FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS FROM THE BEGINNING OF EACH WORK SITE UNTIL THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POLE, THESE STRUCTURE SHALL BE DEMOLISHED TO THE PROPER PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POLE FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN AS SHOWN, A. BEFORE THE TREE, REFERENCED ENDS.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
7. THE CONTRACTOR SHALL TRIMMING THE TREE BRANCHES.

EN.Z.O.
engineering, psc.
PO BOX 3040, PNB 427
GUAYAMA, PR 00978
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNÁN E. LOPEZ BAÉZ, P.E. UEM
LIC. 11548

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #14
FROM SAN JUAN TO CUPEY
MANUEL FERNÁNDEZ JUNCOS AVE. BEFORE ROBERTO H. TOOD ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD
**METROPOLITANA DE
AUTOBUSES**

METROPOLITAN BUS AUTHORITY
BOX 155343
SAN JUAN, PR 00915-5349

REVISION	
DATE: JUNE 2022	DRAW BY:
CHECKED BY: BEV	ABZ
DWG. TYPE: TS-2.06	SHEET NO. 44
	OF 89

ROUTE 9 | BUS STOP #15



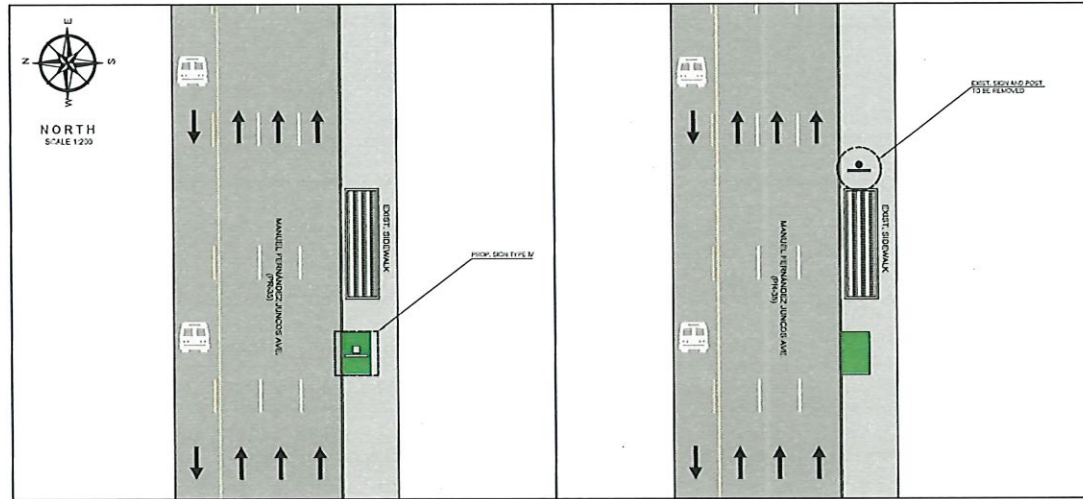
PHOTO - 1



PHOTO - 2

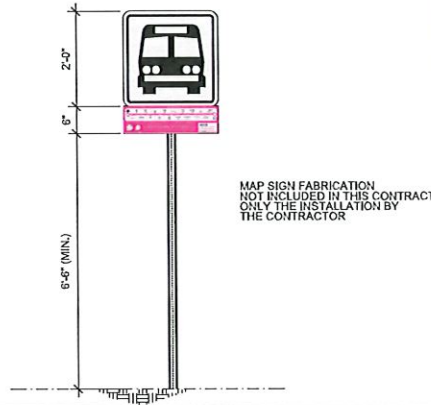
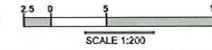


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#15

EXIST. CONDITIONS - ROUTE 9 | B.S.#15



PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PAVED EXCLUSIVE LANE (MAX LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE SIGN FOUNDATION AND PILES RESULTING FROM THE DEACTIVATION OF TRANSPORTATION AND PUBLIC WORKS FROM THE BEGINNING OF EACH WORK ITEM DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE CLEANED TO THE FINISH PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN PLANNED AREA BEFORE THE SIGN IS REBUILT SIGN POSTS.
6. THE SIGN FOUNDATION OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 2.0 M.



LOCATION PLAN 18°26'51.52\"/>



AERIAL PHOTO GOOGLE EARTH VERSION: 7.3.4.8542 PRO SCALE 1:1,000

Yo, Hernán E. López Báez, Ingeniero Bachelo de la UPR, certifico que soy el profesional que autorizó el diseño y la preparación de este proyecto de ingeniería. Este proyecto fue desarrollado por el equipo de trabajo de la Oficina de Ingeniería y Construcción de la Autoridad Metropolitana de Autobuses y el equipo de trabajo de la Oficina de Ingeniería y Construcción de la Autoridad Metropolitana de Autobuses. Este proyecto fue desarrollado por el equipo de trabajo de la Oficina de Ingeniería y Construcción de la Autoridad Metropolitana de Autobuses y el equipo de trabajo de la Oficina de Ingeniería y Construcción de la Autoridad Metropolitana de Autobuses.

EN.Z.O.
engineering, psc.
PO BOX 3040, PMB 427
GUAYAMA, PR 00978
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOBROUPLLC.ORG

HERNÁN E. LOPEZ BAEZ, PE MEM
LIC. # 16114

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #15
FROM SAN JUAN TO CUPEY
MANUEL FERNÁNDEZ JUNCOS AVE. FRONT HEALTH DEPARTMENT
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD DE AUTOBUSES

METROPOLITANA BUS AUTHORITY BOX 155349 SAN JUAN, PR 00913-5349	
DATE: JUNE 2022	CHECKED BY: BEV
DWG. TYPE: TS-2.07	DRAW BY: ABZ
	SHEET NO. 45 OF 89

REVISION	

ROUTE 9 | BUS STOP #16



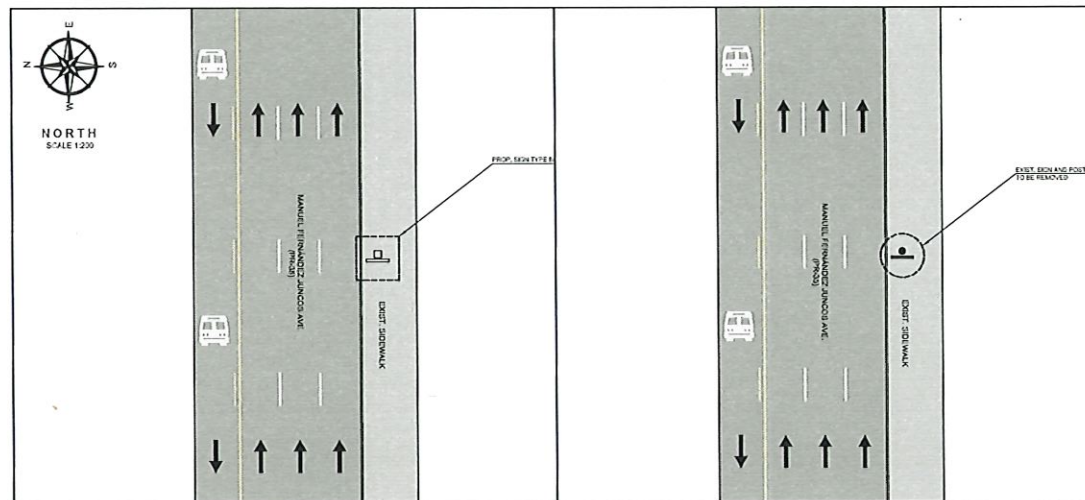
PHOTO -1



PHOTO -2

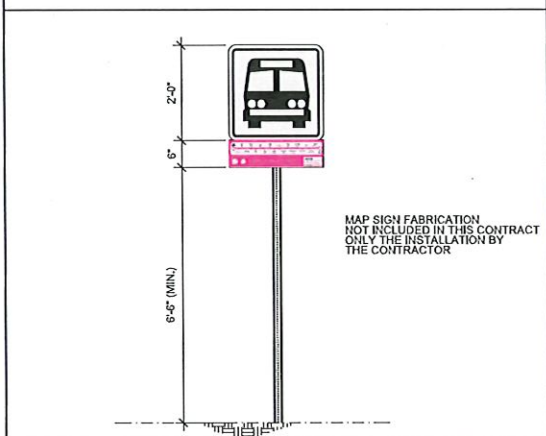
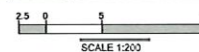


PHOTO -3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#16

EXIST. CONDITIONS - ROUTE 9 | B.S.#16



PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- BMSA EXCLUSIVE LANE (BMSA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL DETAIL THE FOUNDATION, DEVIATION AND FIXES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS FROM THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POSTS, THESE STRUCTURES SHALL BE DELIVERED TO THE FINANCER PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. IF THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING SIGN, LETTERS IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE SUBRAM BETA OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 3.50 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN SENSIBLE AREA, REFER TO P-01013.



LOCATION PLAN 18°26'46.37"N, 66° 42'04.6"W SCALE 1:20 000



AERIAL PHOTO GOOGLE EARTH SCALE 1:10000 VERSION: 7.3.4.8542 PRO

E.N.Z.O.
engineering, psc.
PO BOX 3040, PMB 427
GUAYAMA, PR 00978
TEL. (787) 649-6200 | LOPEZBAEZ@ENZORGROUP.LLCO



**BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #16**

FROM SAN JUAN TO CUPEY
MANUEL FERNÁNDEZ JUNCOS AVE. AFTER HIPÓDROMO ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195343
SAN JUAN, PR 00919-5343

REVISION	
DATE: JUNE 2022	DRAW BY: [blank]
CHECKED BY: [blank]	DRAWN BY: [blank]
BEV	ABZ
DWG. TYPE:	SHEET NO.
TS-2.08	46 OF
	89

ROUTE 9 | BUS STOP #17



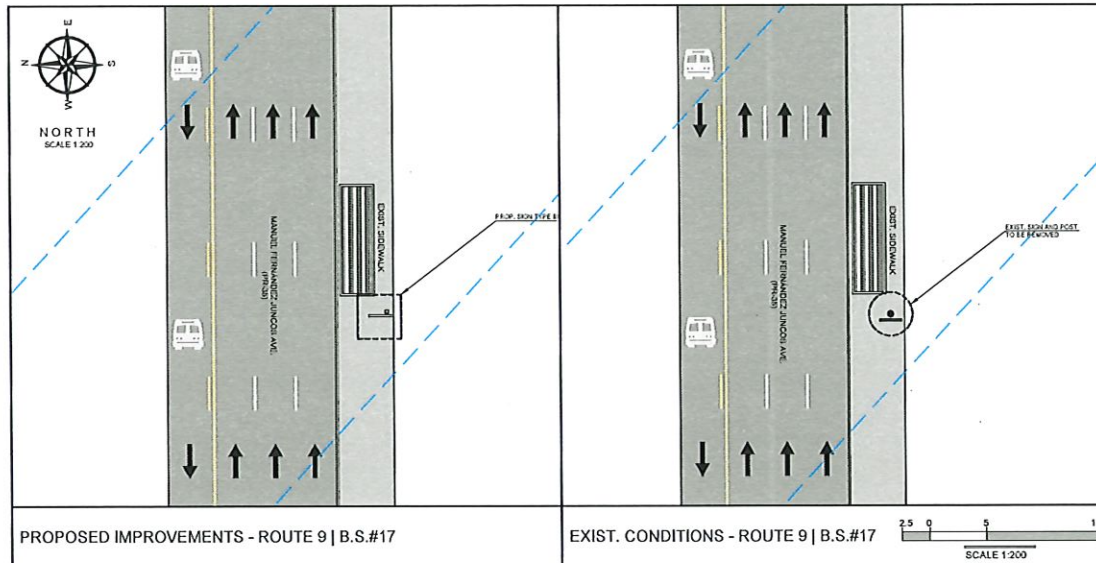
PHOTO - 1



PHOTO - 2

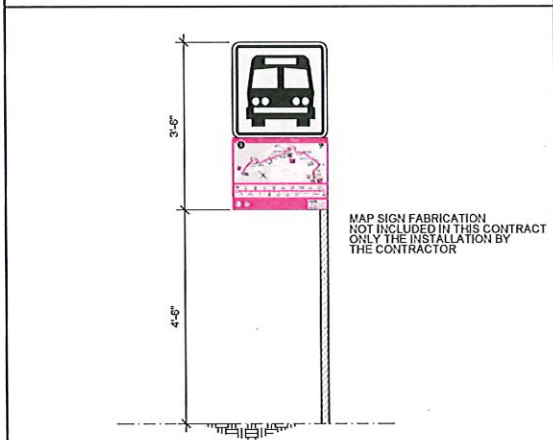


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#17

EXIST. CONDITIONS - ROUTE 9 | B.S.#17



PROPOSED SIGN TYPE III

NOT TO SCALE

LEGEND

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- FRMA EXCLUSIVE LANE (AMAL LANE)
- TRAFFIC DIRECTION

NOTES

1. THE CONTRACTOR SHALL OBTAIN THE NECESSARY EDUCATION AND PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH PHASE OF THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DELIVERED TO THE PUBLIC PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED CAN'TILEVER SIGN IN SIDEWALK NEXT TO WALK. REFER TO PHOTO #1.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 2.0M.



LOCATION PLAN
SCALE 1:20,000
18°26'40.34\"/>



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.6642 PRO

El presente Especifico tiene vigencia hasta el 31 de octubre de 2022. Cualquier modificación o actualización deberá ser aprobada por el Jefe de Oficina de Ingeniería y Planeación Urbana y Transporte de la Autoridad Metropolitana de Autobuses. Asimismo, se reserva el derecho de la Autoridad Metropolitana de Autobuses de modificar o cancelar este Especifico sin previo aviso. El presente Especifico es propiedad de la Autoridad Metropolitana de Autobuses y no puede ser reproducido o distribuido sin el consentimiento escrito de la Autoridad Metropolitana de Autobuses.

ENZO
Engineering, psc.
PO BOX 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZODRUPUBLIC.ORG



BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #17
FROM SAN JUAN TO CUPEY
MANUEL FERNÁNDEZ JUNCOS AVE. BEFORE PAVIA ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITANA BUS AUTHORITY BOX 126349 SAN JUAN, PR 00919-6349	
DATE: JUNE 2022	REVISION
CHECKED BY: ABZ	DRAWN BY:
DWG. TYPE	SHEET NO. 47
TS-209	OF 88

ROUTE 9 | BUS STOP #18



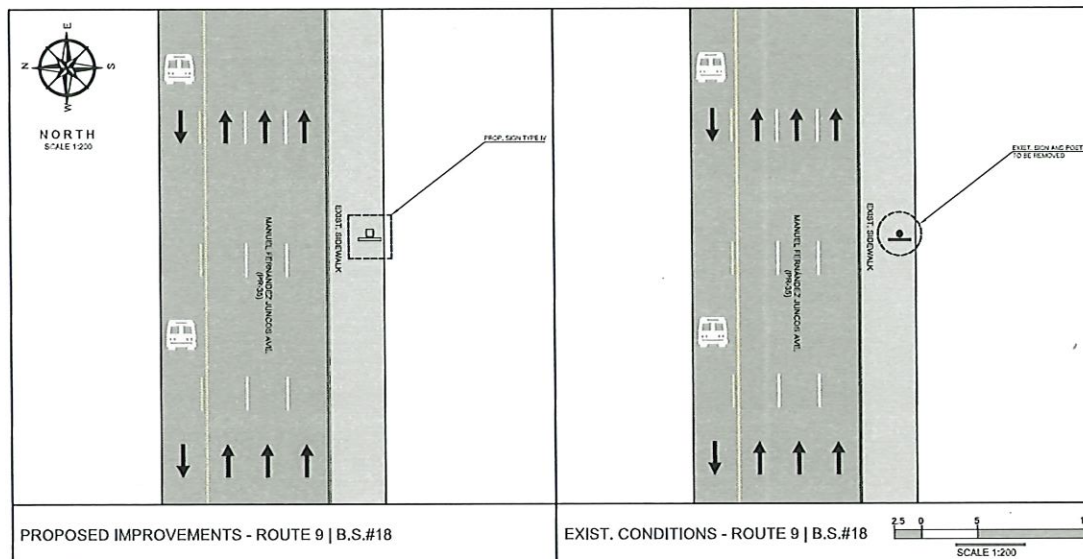
PHOTO - 1



PHOTO - 2

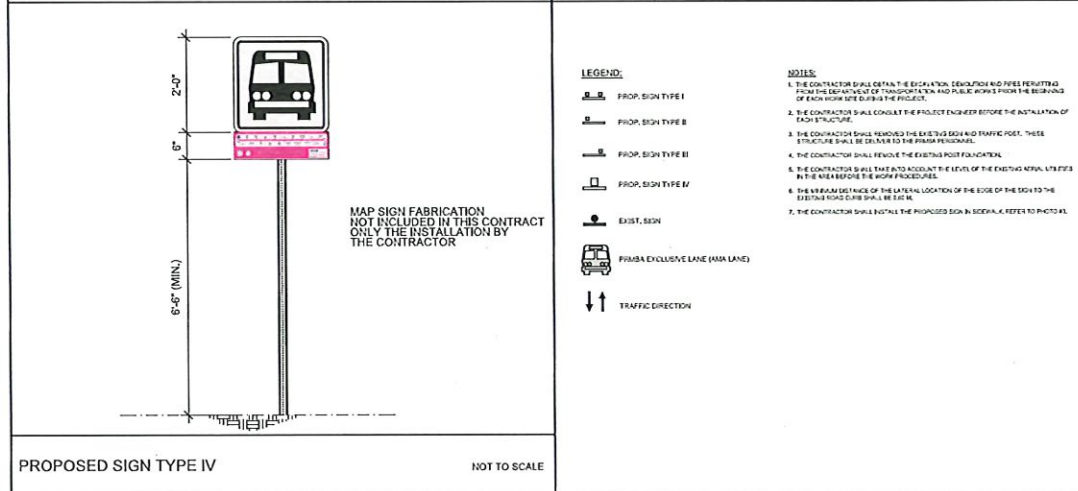
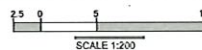


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#18

EXIST. CONDITIONS - ROUTE 9 | B.S.#18



PROPOSED SIGN TYPE IV

NOT TO SCALE



LOCATION PLAN
SCALE 1:20,000



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

E.N.Z.O.
engineering, psc.
PO BOX 3040, PMB 427
GUAYAMA, PR 00978
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.PR



BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #18
FROM SAN JUAN TO CUPEY
MANUEL FERNÁNDEZ JUNCOS AVE. BEFORE VÍCTOR LÓPEZ ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD
**METROPOLITANA DE
AUTOBUSES**



METROPOLITAN BUS AUTHORITY
BOX 156349
SAN JUAN, PR 00918-0349

REVISION	
DATE:	JUNE 2022
CHECKED BY:	DRAW BY:
BEV	ABZ
DWG. TYPE:	SHEET NO.
TS-2.10	48
	OF
	89

Yo Hernán E. López Baéz, Ingeniero Profesional de PR No. 12,345, certifico que soy el profesional que elaboré este estudio y presenté estos planos y los especificaciones correspondientes. También certifico que estubo presente en el sitio de obra y me involucré activamente en las actividades que se realizaron durante el desarrollo del proyecto. Asimismo, certifico que estubo presente en la inspección de obra y me involucré activamente en las actividades que se realizaron durante el desarrollo del proyecto. Asimismo, certifico que estubo presente en la inspección de obra y me involucré activamente en las actividades que se realizaron durante el desarrollo del proyecto.

ROUTE 9 | BUS STOP #19



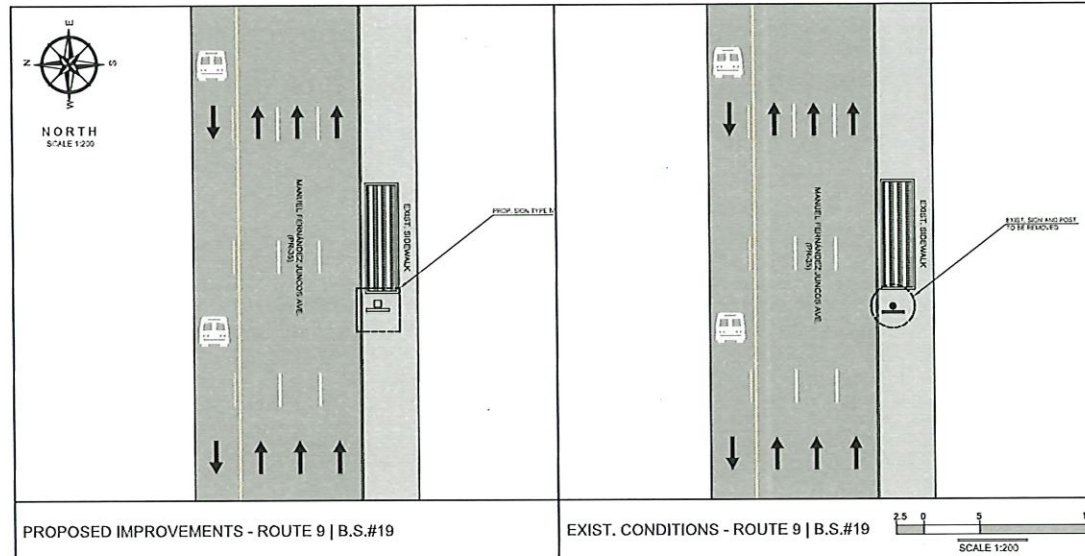
PHOTO - 1



PHOTO - 2

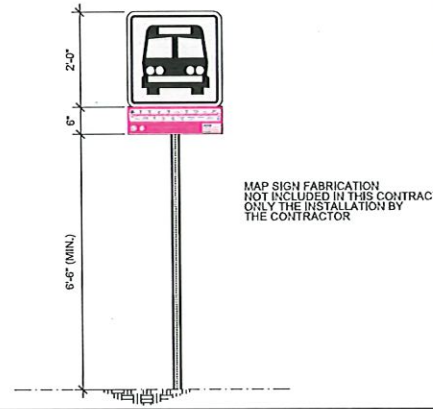
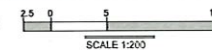


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#19

EXIST. CONDITIONS - ROUTE 9 | B.S.#19



PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PMSA EXCLUSIVE LANE (AM LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL DETAIL THE SIGNATION, DIMENSION AND FINISH RESULTING FROM THE SET-OUT OF TRANSPORTATION AND PUBLIC WORKS FROM THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE GIVEN TO THE OWNER PERSONALLY.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING UTILITY IN THE AREA BEFORE THE WORK PROCEDURE.
6. THE WIDTH OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 2.00 M.
7. THE CONTRACTOR SHALL DETAIL THE PROPOSED SIGN IN SPECIAL A FROM THE EXISTING POST, REFER TO PLAN 04.



LOCATION PLAN 18°26'30.85\"/>



AERIAL PHOTO SCALE 1:1,000

GOOGLE EARTH VERSION: 7.3.4.6542 PRO

EN.Z.O.
Engineering, psc.
PO Box 3040, PMB 427
Curaçao, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #19
FROM SAN JUAN TO CUPEY
MANUEL FERNÁNDEZ JUNCOS AVE. INT. SAN JORGE ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD DE AUTOBUSES

METROPOLITANA BUS AUTHORITY
BOX 135319
SAN JUAN, PR 00913-5319

REVISION	
DATE: JUNE 2022	DRAWN BY:
CHECKED BY: BEV	ABZ
DWG. TYPE:	SHEET NO. 49
TS-2.11	OF 89

ROUTE 9 | BUS STOP #20



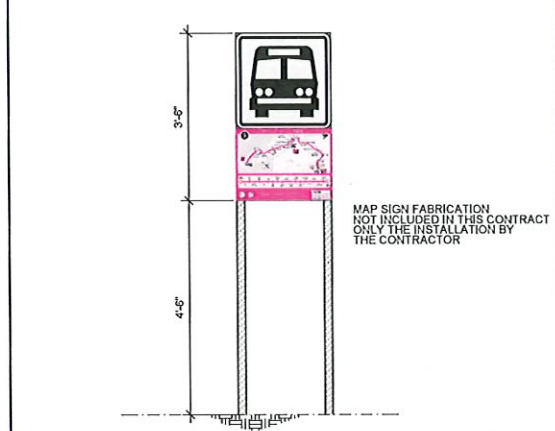
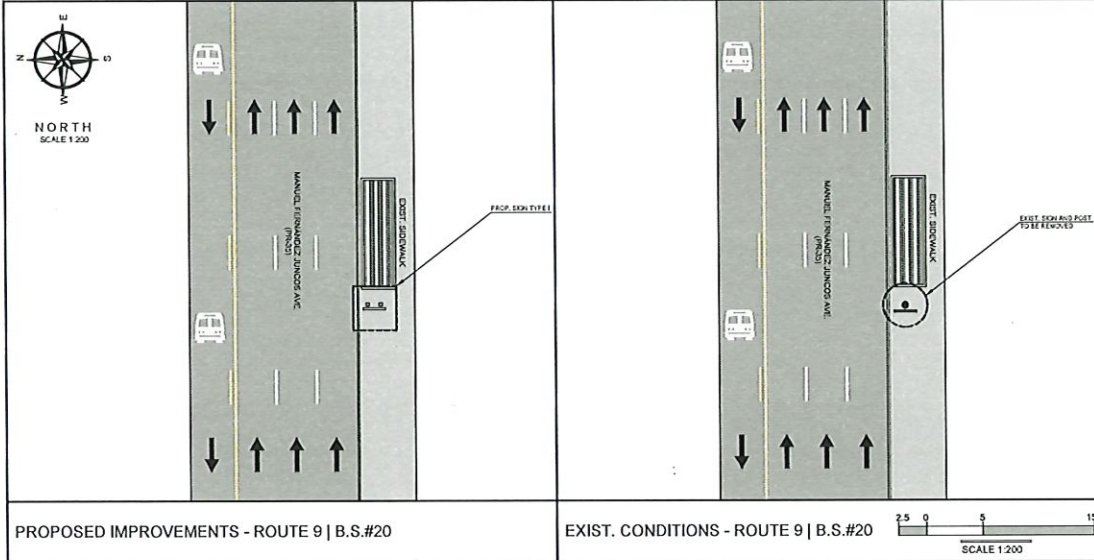
PHOTO - 1



PHOTO - 2



PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED SIGN TYPE I NOT TO SCALE

- LEGEND:**
- PROP. SIGN TYPE I
 - PROP. SIGN TYPE II
 - PROP. SIGN TYPE III
 - PROP. SIGN TYPE IV
 - EXIST. SIGN
 - PRIBA EXCLUSIVE LANE (AMA LANE)
 - TRAFFIC DIRECTION
- NOTES:**
1. THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS AND FINES PERMITTING FROM THE DEPT. OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF CONSTRUCTION OF THIS PROJECT.
 2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
 3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURES SHALL BE RELOCATED TO THE PROPER PERSONNEL.
 4. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN FOUND ON THE SIDEWALK.
 5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING UTILITIES IN THE AREA BEFORE THE SIGN PROCEEDS.
 6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 2.0 M.
 7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN SIDEWALK NEXT TO PAINT STRIP MARKING, REFER TO PROCEEDS.

EN.Z.O.
Engineering, psc.
PO BOX 3040, PMB 427
GURARD, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZODROPUBLIC.ORG

HERNÁN E. LOPEZ BAEZ, PE MEM
LIC. 16,456

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #20

FROM SAN JUAN TO CUPEY
MANUEL FERNÁNDEZ JUNCOS AVE. BEFORE MAYOL ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 155349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	CHECKED BY: ABZ
BEV	DRAWN BY: ABZ
DWG. TYPE: TS-12	SHEET NO.: 50
	OF 89

El Ingeniero E. López Baéz, Ingeniero No. 16,456, certifica que es el profesional que emitió este documento, diseñó y supervisó este plano y se responsabiliza con los dispositivos señalados en el Reglamento de la Ingeniería Arquitectónica y Topografía de Puerto Rico. Este plano se sometió a la Comisión de Control de Construcción de la Ingeniería, Arquitectura y Topografía de Puerto Rico para su aprobación. Asimismo, el profesional responsable de la elaboración de este plano es el profesional responsable de la ejecución de los trabajos en el terreno.

ROUTE 9 | BUS STOP #23



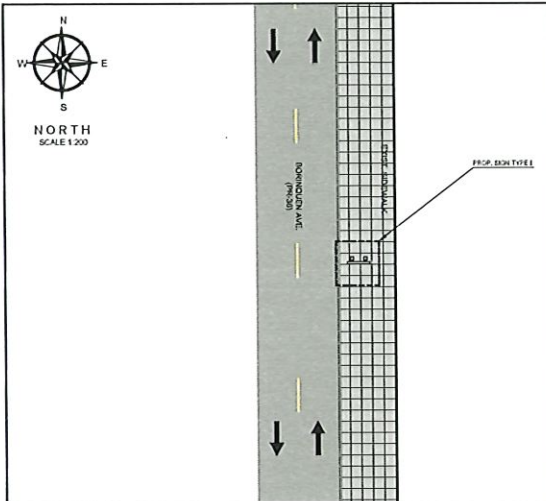
PHOTO - 1



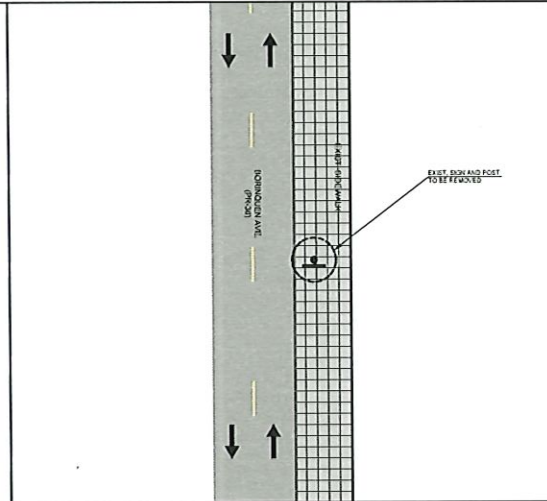
PHOTO - 2



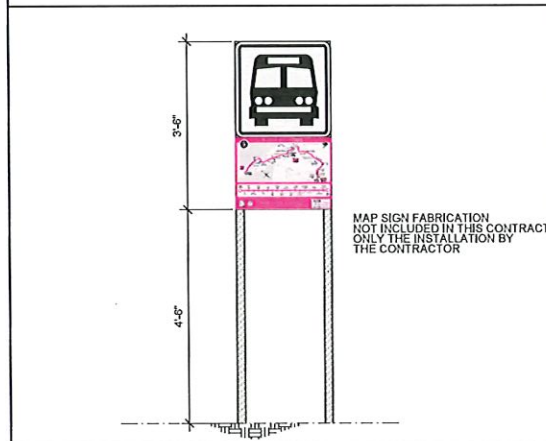
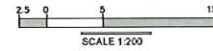
PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#23



EXIST. CONDITIONS - ROUTE 9 | B.S.#23



PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- FRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS AND FINES PERMITTING FROM THE LOCAL AGENCY OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DELIVERED TO THE PUBLIC TROOP/VEHICLE.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING ASPHALT/CONCRETE IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DELIVERED TO THE PUBLIC TROOP/VEHICLE.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE AREA OF THE EXISTING SIGN AND TRAFFIC POST. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE SIGN WITH THE MUNICIPALITY OF SAN JUAN ABOUT THE SAFETY TO INSTALL BY THESE TILES.



LOCATION PLAN
SCALE 1:20,000
18°26'16.36\"/>



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.6642 PRO

El Ingeniero E. Lopez Baez, Ingeniero Numero 18756 certifica que este proyecto de obra civil, de carácter urbano, ha sido elaborado y ejecutado de acuerdo a las disposiciones legales y técnicas que rigen la actividad profesional de Ingeniería Civil en Puerto Rico, y que el proyecto cumple con las disposiciones legales y técnicas que rigen la actividad profesional de Ingeniería Civil en Puerto Rico. Asimismo, certifica que el proyecto cumple con las disposiciones legales y técnicas que rigen la actividad profesional de Ingeniería Civil en Puerto Rico. Este documento es propiedad del Ingeniero E. Lopez Baez y no debe ser reproducido, copiado, distribuido o publicado sin su consentimiento expreso. Toda infracción de esta naturaleza será perseguida legalmente y sancionada de acuerdo a la ley.

ENZO
Engineering, psc.
PO Box 3040, PMB 427
GURARO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18756

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #23
FROM SAN JUAN TO CUPEY
BORINQUEN AVENUE INT. SAN ANTONIO ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 125349
SAN JUAN, PR 00910-5349

REVISION	
DATE	JUNE 2022
CHECKED BY	BEV
DWG. TYPE	TS-2.15
CHECKED BY	ABZ
SHEET NO.	53
OF	89

ROUTE 9 | BUS STOP #24



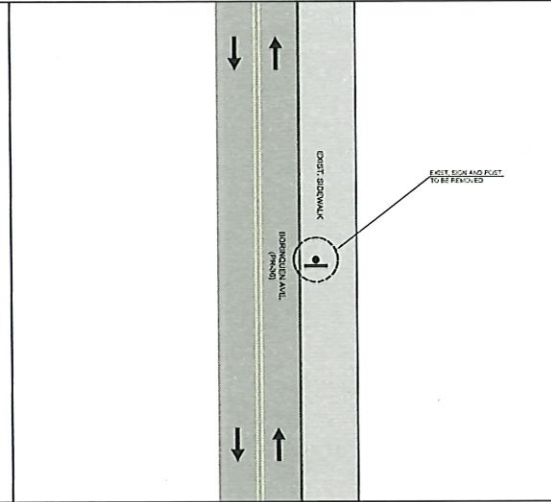
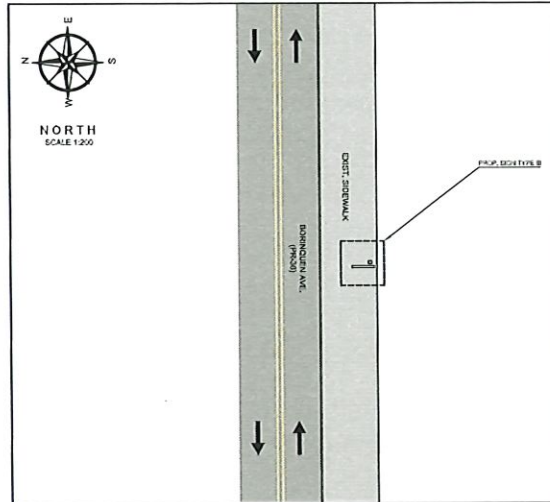
PHOTO - 1



PHOTO - 2

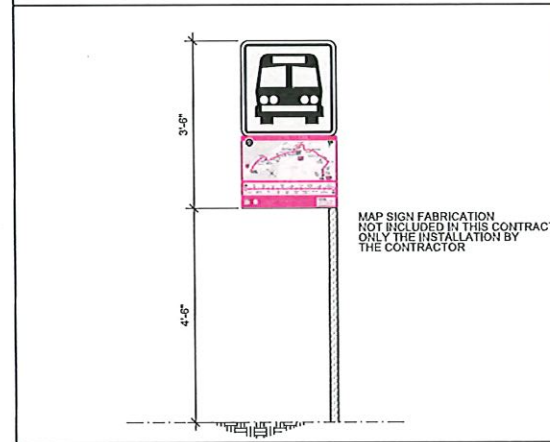


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#24

EXIST. CONDITIONS - ROUTE 9 | B.S.#24



PROPOSED SIGN TYPE III NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE B
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRIMA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS AND APPROVALS FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF ANY WORK ESTIMATED FOR THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAVEL POST. THESE STRUCTURES SHALL BE REMOVED TO THE PROPER PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITY PIPES IN THE AREA ESPECIALLY THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.30 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED CANTILEVER SIGN IN SIDEWALK NEXT TO WALL AND 2' FROM THE SIDEWALK EDGE AS SHOWN IN PHOTO 3.



LOCATION PLAN 18°26'15.44\"/>



AERIAL PHOTO GOOGLE EARTH SCALE 1:1,000 VERSION: 7.3.4.6542 PRO

EN.Z.O.
Engineering, psc.
PO BOX 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.DRG

HERNAN E. LOPEZ BAEZ
INGENIERO CIVIL
PUERTO RICO
LIC. 18-5476

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #24

FROM SAN JUAN TO CUPEY
BORINQUEN AVENUE AFTER 8 ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 155313
SAN JUAN, PR 00915-5313

DATE: JUNE 2022	REVISION
CHECKED BY: BEV	
DWG. TYPE: TS-2.16	
DRAWN BY: ABZ	
SHEET NO. 54	
OF 89	

Yo, Hernan E. Lopez Baez, Ingeniero Civil, 18 años de experiencia en el campo de la ingeniería civil, declaro que esta es una copia verdadera y exacta de los planos de ingeniería que se muestran en esta obra. Asimismo, declaro que los planos de ingeniería que se muestran en esta obra son el resultado de mi propia investigación y que no he copiado ni reproducido los planos de ingeniería de otra persona. Asimismo, declaro que los planos de ingeniería que se muestran en esta obra son el resultado de mi propia investigación y que no he copiado ni reproducido los planos de ingeniería de otra persona. Asimismo, declaro que los planos de ingeniería que se muestran en esta obra son el resultado de mi propia investigación y que no he copiado ni reproducido los planos de ingeniería de otra persona.

ROUTE 9 | BUS STOP #25



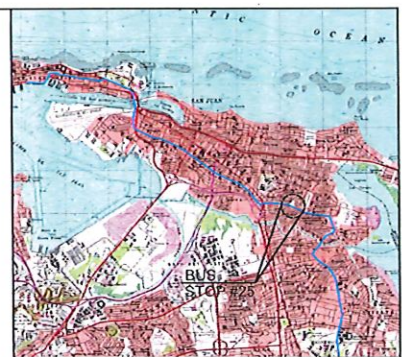
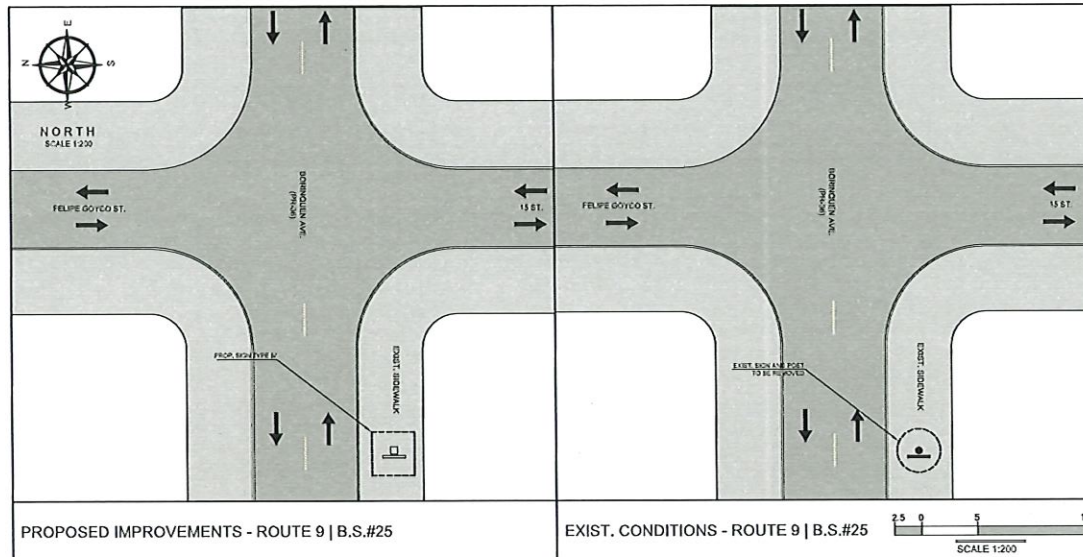
PHOTO - 1



PHOTO - 2



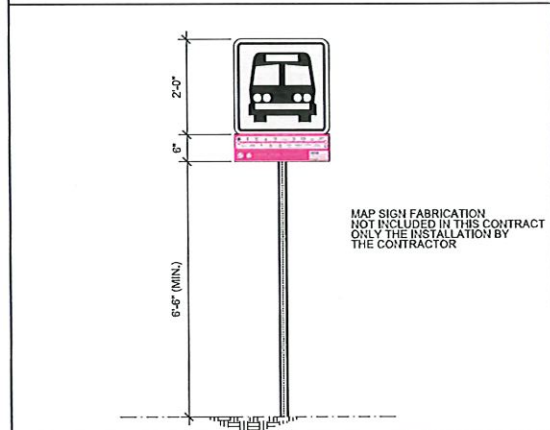
PHOTO - 3: PROPOSED SIGN LOCATION



LOCATION PLAN
SCALE 1:20,000
18°26'13.01"N, 66° 3'10.57"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8542 PRO



PROPOSED SIGN TYPE IV
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PWSA EXCLUSIVE LANE (ADA LANE)
- TRAFFIC DIRECTION

NOTES:

- THE CONTRACTOR SHALL DETAIL THE ERECTION, DEVELOPMENT AND FINISH PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS FROM THE BEGINNING OF EACH WORK SITE CLUB IN THE PROJECT.
- THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
- THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POLES. THESE STRUCTURES SHALL BE DEMOLISHED TO THE FINISH PERSONALLY.
- THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATIONAL.
- THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING METAL UTILITIES IN THE AREA BEFORE THE WORK PROCEEDS.
- THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 2.0'.

E.N.Z.O.
engineering, psc.
PO BOX 3040, PMB 427
GUAYAMA, PR 00779
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
REGISTERED PROFESSIONAL ENGINEER
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 15749E

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #25
FROM SAN JUAN TO CUPEY
BORINQUEN AVENUE BEFORE FELIPE GOYCO ST.
MUNICIPALITY OF SAN JUAN

AUTORIZADO
METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 185349
SAN JUAN, PR 00918-5349

REVISION	
DATE: JUNE 2022	DRAW BY:
CHECKED BY: BEV	ABZ
DWG. TYPE: TS-2.17	SHEET NO. 55 OF 99

Se remite al Lic. Juan Rios Aguirre, Burela 1834, certifica que es el profesional que certifica, elaboró y proyectó este plano y las especificaciones complementarias. Declara certificar que el plano y las especificaciones cumplen con las disposiciones reglamentarias del Ingénieur Civil y de Arquitectura en el área de Ingeniería Civil y de Construcción, para ser utilizado en el territorio de la Autoridad Metropolitana de Autobuses (AMA), con el fin de dar cumplimiento a la Ley No. 145 de 1998 y a la Ley No. 42 de 1998, así como a la Ley No. 40 de 2000, que otorga a la AMA el carácter de entidad autónoma y no sujeta a presupuesto. El profesional responsable de este plano es el Lic. Juan Rios Aguirre, Burela 1834, con el número de matrícula No. 1834.

ROUTE 9 | BUS STOP #26



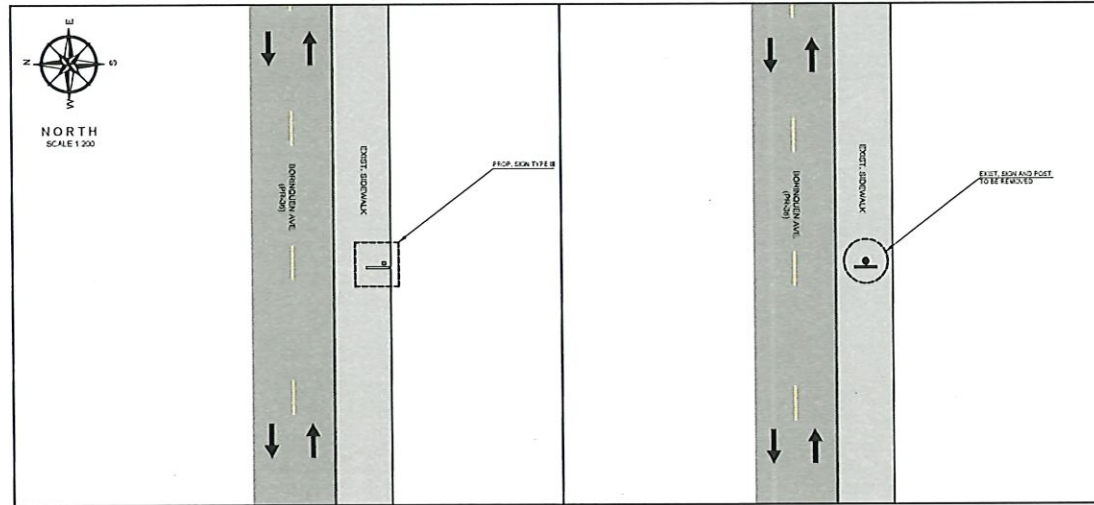
PHOTO - 1



PHOTO - 2

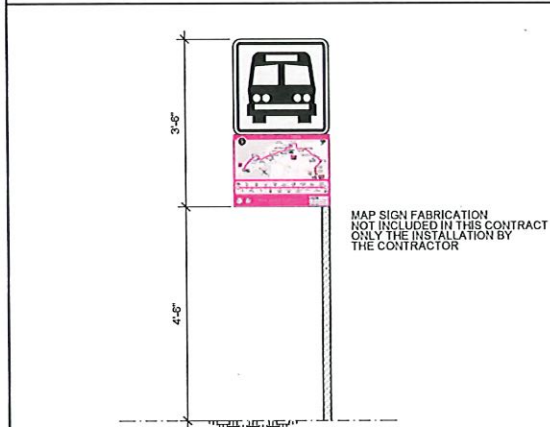
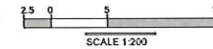


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#26

EXIST. CONDITIONS - ROUTE 9 | B.S.#26



PROPOSED SIGN TYPE III

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRISMA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EDUCATION, EQUIPMENT AND PERMITS PERMITTED FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURES SHALL BE SECURE TO THE FINAL PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED CANTILEVER SIGN IN SERIALS NEXT TO SHALL REFER TO PHOTOS.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 6" MIN.



LOCATION PLAN
SCALE 1:20,000
18°26'9.88\"/>



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.66-42 PRO

El Ingeniero E. Lopez Baez, Apoyado Tecnico del Sr. Ing. Gerardo Lopez Baez, certifica que es el proyectista que autoriza, diseña y proyecta estos planos y especificaciones técnicas y que los Expone para su aprobación y ejecución. Toda vez que autoriza que dichos planos y especificaciones técnicas sean utilizados para la ejecución de las obras de infraestructura de transporte público en el Municipio de San Juan, Puerto Rico. Asimismo, certifica que no tiene conocimiento de ninguna infracción o irregularidad en el cumplimiento de las obligaciones que le corresponden en virtud de su cargo como Ingeniero Civil, y que no tiene conocimiento de ninguna infracción o irregularidad en el cumplimiento de las obligaciones que le corresponden en virtud de su cargo como Ingeniero Civil, y que no tiene conocimiento de ninguna infracción o irregularidad en el cumplimiento de las obligaciones que le corresponden en virtud de su cargo como Ingeniero Civil.

EN.Z.O.
Engineering, psc.
PO Box 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZODRUPLLC.ORG

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #26
FROM SAN JUAN TO CUPEY
BORINQUEN AVENUE AFTER CORTIJO ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD
SAN JUAN, PR 00919-5349

METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	DRAWN BY: ABZ
CHECKED BY: BEV	SHEET NO. 56
DWG. TYPE: TS-218	OF 89

ROUTE 9 | BUS STOP #27



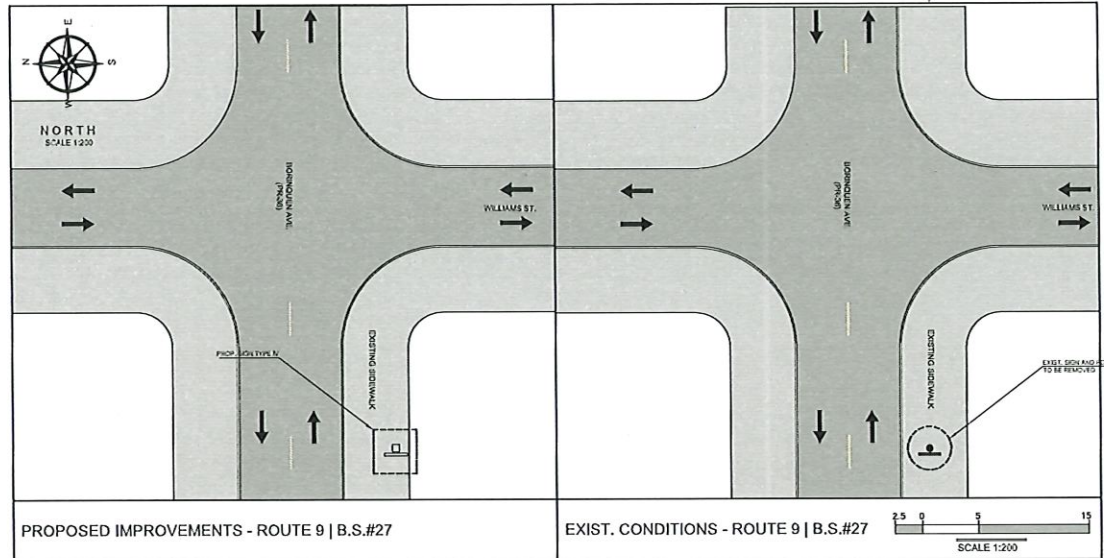
PHOTO - 1



PHOTO - 2

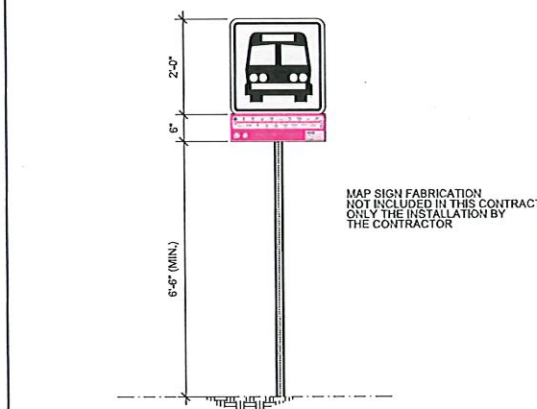
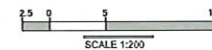


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#27

EXIST. CONDITIONS - ROUTE 9 | B.S.#27



PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PAVED EXCLUSIVE LANE (PML LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EDUCATION, EQUIPMENT AND TRAFFIC PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS FROM THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POLE. THESE STRUCTURES SHALL BE DELIVERED TO THE OWNER PERSONALLY.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POLE FOR CENTRAL.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN SIDEWALK NEXT TO WALL NEAREST TO POLE.
6. THE SPACING BETWEEN THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 5.0 FT.



LOCATION PLAN
SCALE 1:20,000
18°26'7.77"N, 66°25'8.3"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo, Hernán E. López Díaz, Ingeniero, le declaro que soy el profesional que certifica, diseña y prepara esta plan y los documentos complementarios. También certifico que el trabajo que se describe en el presente es el resultado de un estudio de Ingeniería Civil y de Ingeniería de Tránsito y Transporte. Soy un profesional registrado en la Corporación Pública de Ingeniería. Recomiendo que cualquier modificación o alteración de la obra que se haya producido por desconocer la ley o por cualquier otro motivo, o por error por parte del contratista, sea responsabilidad del contratista y no de la AOTCP.

ENZO
engineering, psc.
PO BOX 3040, PMB 427
CUIRADO, PR 00778
TEL. (787) 649-6200 | LOPEZDAEZ@ENZOGRUPOLLC.ORG



HERNÁN E. LOPEZ DIAZ, PE MEM
LIC. 10000

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #27
FROM SAN JUAN TO CUPEY
BORINQUEN AVENUE BEFORE WILLIAMS ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD
SAN JUAN, PR 00913-5349

REVISION	
DATE: JUNE 2022	DRAW BY:
CHECKED BY: BEV	ABZ
DWG. TYPE: TS-2.19	SHEET NO. 57 OF 89

ROUTE 9 | BUS STOP #28



PHOTO - 1

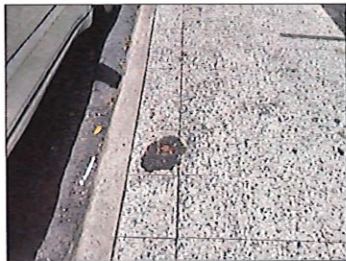
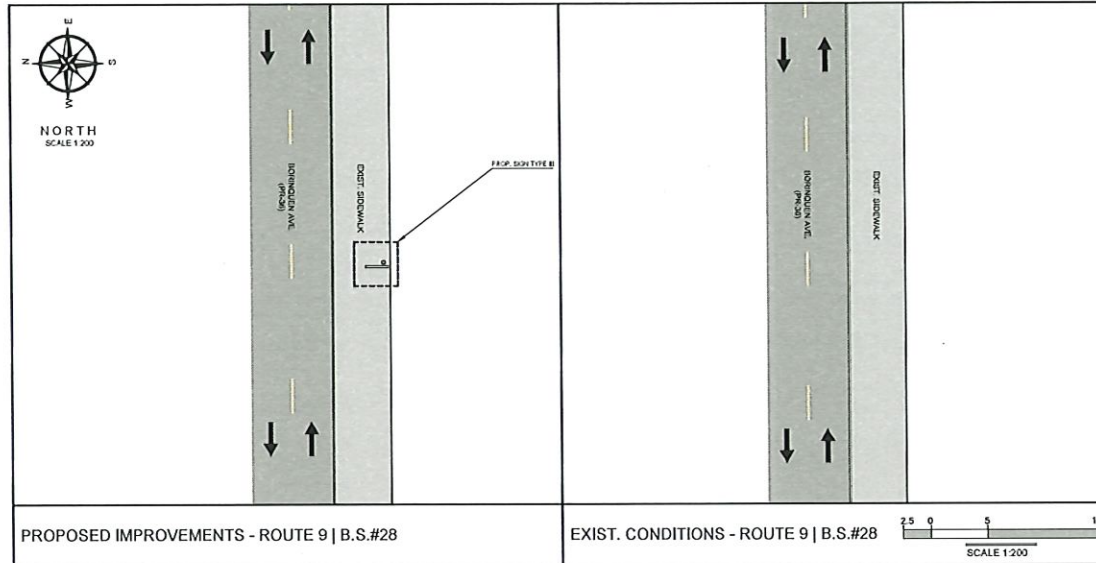


PHOTO - 2

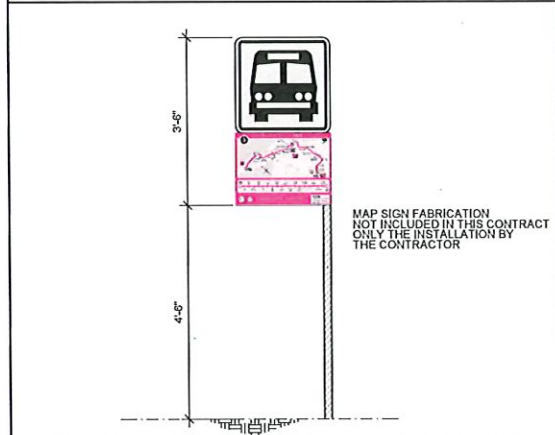


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#28

EXIST. CONDITIONS - ROUTE 9 | B.S.#28



PROPOSED SIGN TYPE III

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE B
- PROP. SIGN TYPE BII
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE OCCUPATION, EROSION AND PILES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF WORK AND BEFORE THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL INSTALL THE PROPOSED CANTILEVER SIGN ON SIDEWALK NEXT TO MUNICIPAL FENCE. REFER TO PHOTO #1.
4. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 5.0 M.



LOCATION PLAN
SCALE 1:20,000

10°26'8.88"N, 66°25'2.50"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.6242 PRO

No Permit E. Lopez Baez, Ingeniero Civil No. 18756, certifica que este proyecto fue concebido, diseñado y ejecutado en su totalidad de acuerdo con las especificaciones técnicas contractuales. Asimismo, certifica que este proyecto fue sometido a una inspección de obra en las etapas de ejecución y que los trabajos fueron ejecutados de acuerdo con lo establecido en el contrato. El presente documento es una copia de los planos y especificaciones de obra que forman parte del expediente de obra y que se encuentran en poder de la Oficina de Ingeniería y Construcción Pública del Municipio de San Juan. El presente documento no es válido para ser usado en otros proyectos sin la autorización expresa del autor. Este documento es propiedad del autor y no debe ser reproducido, distribuido o publicado en ningún medio sin la autorización expresa del autor.

ENZO.
Engineering, psc.
PO BOX 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG



BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #28
FROM SAN JUAN TO CUPEY
BORINQUEN AVENUE BEFORE CARACAS ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUS
AUTORIDAD
METROPOLITANA DE AUTOBUS

METROPOLITAN BUS AUTHORITY
BOX 125343
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	CHECKED BY: ABZ
BEV	DRAWN BY: ABZ
DWG. TYPE: TS-2.20	SHEET NO. 58
	OF 89

ROUTE 9 | BUS STOP #29



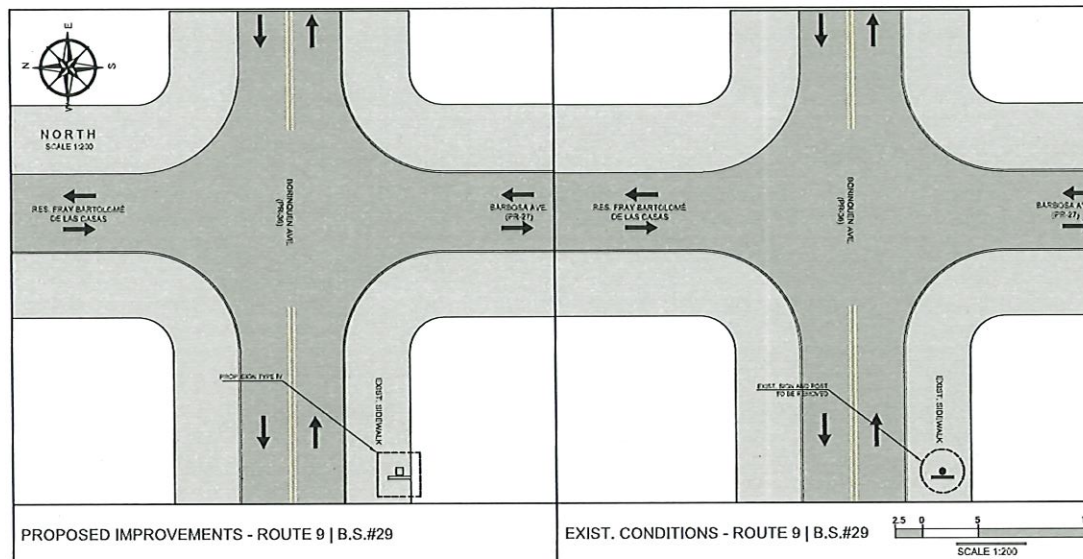
PHOTO - 1



PHOTO - 2

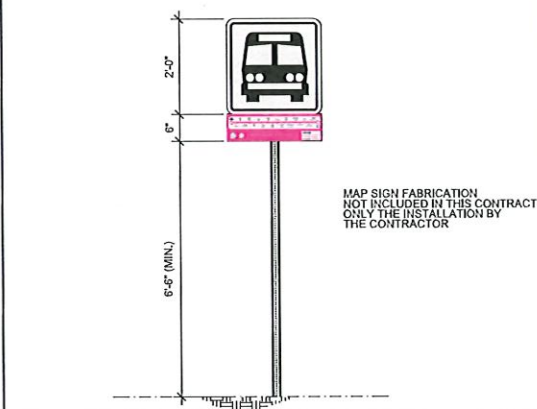


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#29

EXIST. CONDITIONS - ROUTE 9 | B.S.#29



PROPOSED SIGN TYPE IV

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (MM LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL DETAIL THE SIGNATION, DIMENSION AND FINISH RESULTING FROM THE SET-UP LEVEL OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE CELEBRATED TO THE OWNER PERSONALLY.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITY IN THE AREA BEFORE THE WORK PROCEDURE.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN ACCORDANCE TO THE PROJECT PLAN(S), REFER TO PHOTO #3.



LOCATION PLAN SCALE 1:20,000 18°26.543'N, 66°243.02'W



AERIAL PHOTO SCALE 1:1,000 GOOGLE EARTH VERSION: 7.3.4.8542 PRO

Yo, Hernán E. López Báez, Ingeniero de Obras Públicas, certifico que soy el profesional que autorizó el diseño y la preparación de este proyecto de obra pública. Asimismo, certifico que el proyecto de obra pública fue diseñado y preparado de acuerdo a las disposiciones técnicas y legales que rigen la materia en el ordenamiento jurídico de Puerto Rico y que el mismo cumple con los requisitos establecidos en el Reglamento de Obras Públicas de Puerto Rico. Asimismo, certifico que el proyecto de obra pública fue diseñado y preparado de acuerdo a las disposiciones técnicas y legales que rigen la materia en el ordenamiento jurídico de Puerto Rico y que el mismo cumple con los requisitos establecidos en el Reglamento de Obras Públicas de Puerto Rico.

E.N.Z.O.
engineering, psc.
PO Box 3040, PMB 427
GUAYAMA, PR 00972
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOBROUP.LLC.ORG

HERNÁN E. LOPEZ BÁEZ, PE MEM
LIC. 15346

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #29
FROM SAN JUAN TO CUPEY
BORINQUEN AVENUE INT. BARBOSA AVE.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD DE
TRANSPORTE PÚBLICO

METROPOLITANA BUS AUTHORITY
BOX 155349
SAN JUAN, PR 00915-5349

REVISION	
DATE:	JUNE 2022
CHECKED BY:	BEV
DWG. TYPE:	TS-2.21
DRAWN BY:	ABZ
SHEET NO.:	59
OF	89

ROUTE 9 | BUS STOP #31



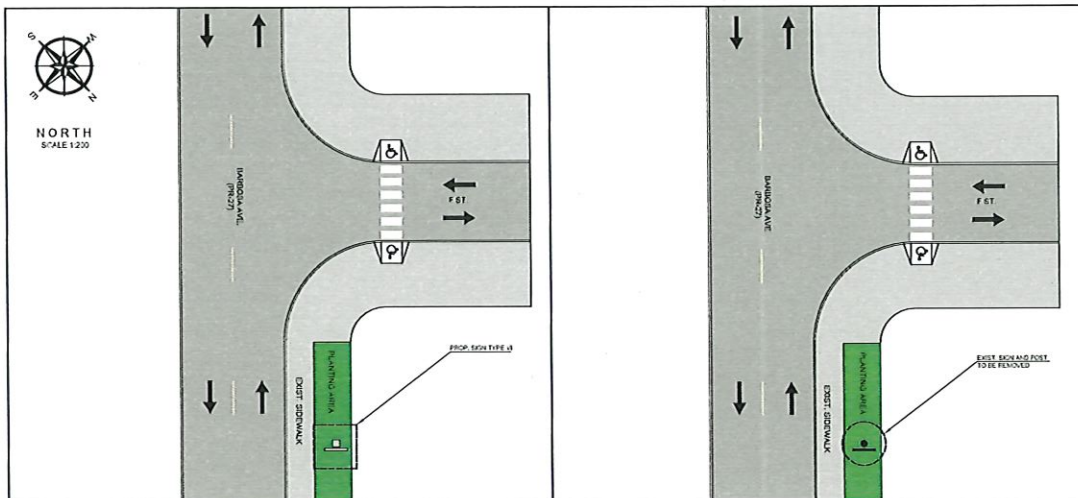
PHOTO - 1



PHOTO - 2

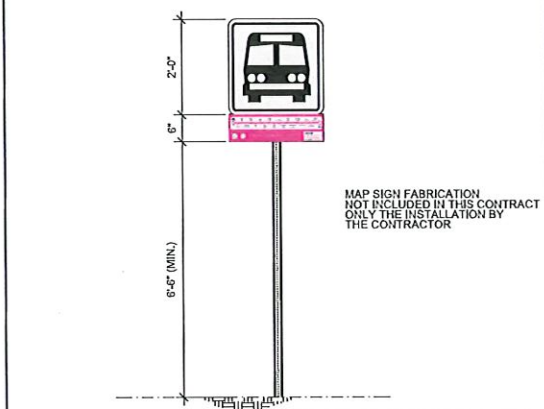
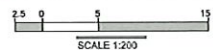


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#31

EXIST. CONDITIONS - ROUTE 9 | B.S.#31



PROPOSED SIGN TYPE VI

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE B
- PROP. SIGN TYPE BI
- PROP. SIGN TYPE BM
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (MMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE SIGN ACTION, REGULATION AND FINES RESULTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS FROM THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DEMOLISHED TO THE PERSON RESPONSIBLE.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING SIGNAL LITERIES IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 5.00 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA REFER TO PHOTO 3.



LOCATION PLAN
SCALE 1:200,000
18°25'39.84\"/>



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

EN.Z.O.
engineering, psc.
PO Box 3040, PHB 427
CUNAO, PR 00178
TEL. (787) 649-6200 | LOPEZBAEZ@ENZORGROUPLLC.ORG

HERIBERTO E. LOPEZ BAEZ, PE MEM
LIC. 11-5146

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #31
FROM SAN JUAN TO CUPEY
BARBOSA AVENUE INT. F ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 156349
SAN JUAN, PR 00919-0349

REVISION	
DATE: JUNE 2022	DRAWN BY: ABZ
CHECKED BY: BEV	SHEET NO. 61
DWG. TYPE: TS-2.23	OF 89

ROUTE 9 | BUS STOP #32



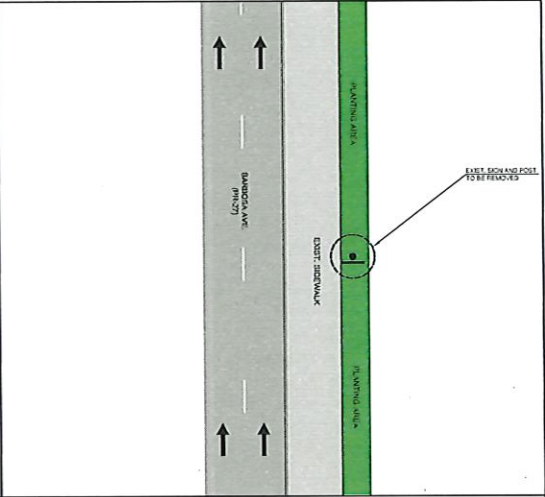
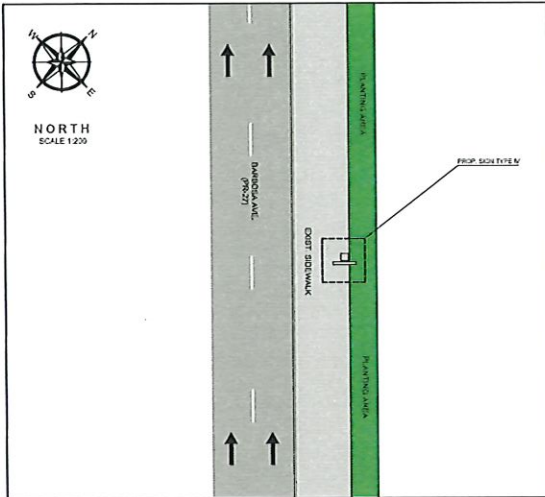
PHOTO - 1



PHOTO - 2

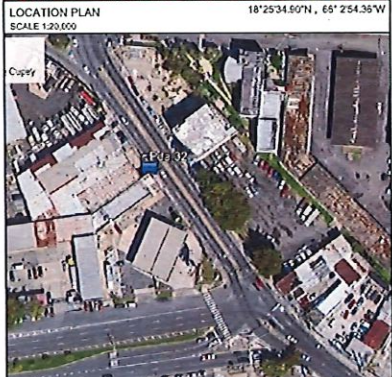
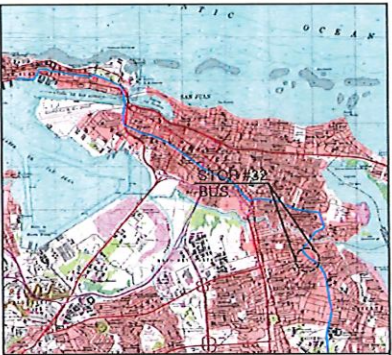


PHOTO - 3: PROPOSED SIGN LOCATION

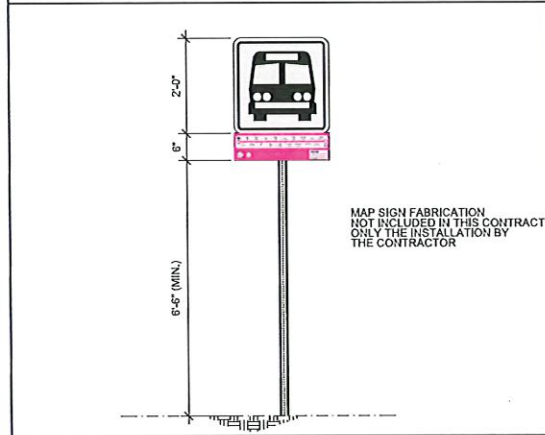


PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#32

EXIST. CONDITIONS - ROUTE 9 | B.S.#32



AERIAL PHOTO SCALE 1:1,000



PROPOSED SIGN TYPE IV NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE B
- PROP. SIGN TYPE BI
- PROP. SIGN TYPE M
- EXIST. SIGN
- PRMA EXCLUSIVE LANE (MIA LANE)
- TRAFFIC DIRECTION

NOTES:

- THE CONTRACTOR SHALL DETAIL THE SIGNATION, REGULATION AND FINISH RESULTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS FROM THE BEGINNING OF EACH WORK SITE OF THIS PROJECT.
- THE CONTRACTOR SHALL COMPLETE THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
- THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DELIVERED TO THE OWNER PERSONALLY.
- THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN FOUNDATION.
- THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING UTILITY LINES IN THE AREA BEFORE THE WORK PROCEDURES.
- THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 3.00 M.
- THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN ACCORDANCE WITH ALL STOP SIGNS. REFER TO PHOTO 2.

LEGEND AND NOTES

E.N.Z.O.
Engineering, psc.
PO Box 3040, PHB 427
GUAYAMA, PR 00776
TEL. (787) 649-6200 | LOPEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. E-5476

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #32
FROM SAN JUAN TO CUPEY
BARBOSA AVENUE BEFORE FRANKLIN D. ROOSEVELT AVE.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 185349
SAN JUAN, PR 00918-5349

REVISION

DATE: JUNE 2022	DRAW BY:
CHECKED BY: BEV	ABZ
DWG. TYPE: TS-2.24	SHEET NO. 62
	OF 69

Yo Hernan E. Lopez Baez, Ingeniero Civil No. 5476, certifico que este plan de proyecto de señalización de paradas de autobuses es el resultado de mi trabajo profesional y que he cumplido con todas las obligaciones legales y profesionales que corresponden a un Ingeniero Civil en Puerto Rico. Este plan de proyecto de señalización de paradas de autobuses es el resultado de mi trabajo profesional y que he cumplido con todas las obligaciones legales y profesionales que corresponden a un Ingeniero Civil en Puerto Rico. Este plan de proyecto de señalización de paradas de autobuses es el resultado de mi trabajo profesional y que he cumplido con todas las obligaciones legales y profesionales que corresponden a un Ingeniero Civil en Puerto Rico.

ROUTE 9 | BUS STOP #33



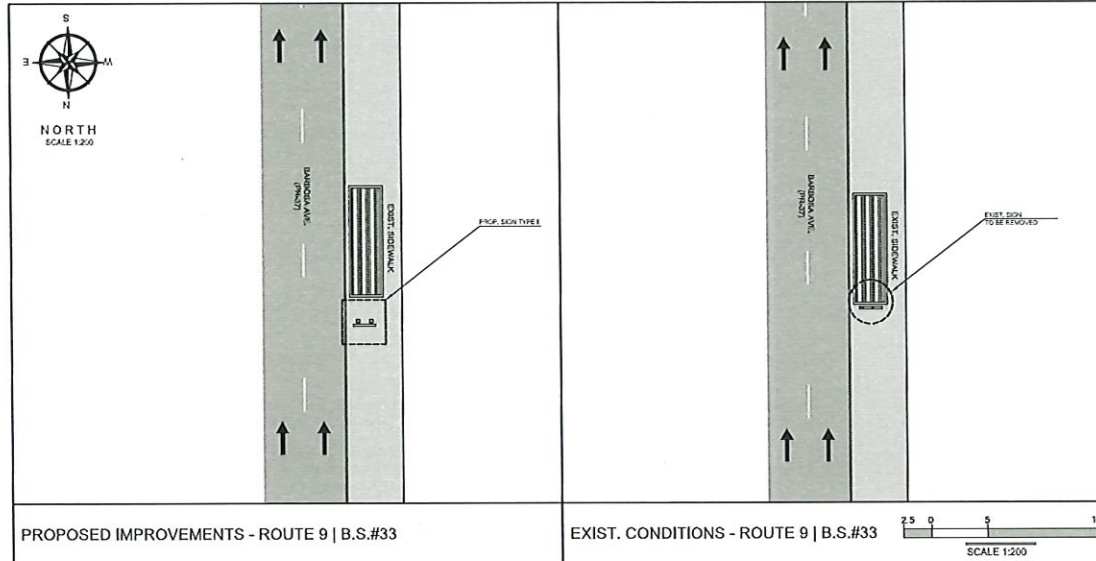
PHOTO - 1



PHOTO - 2

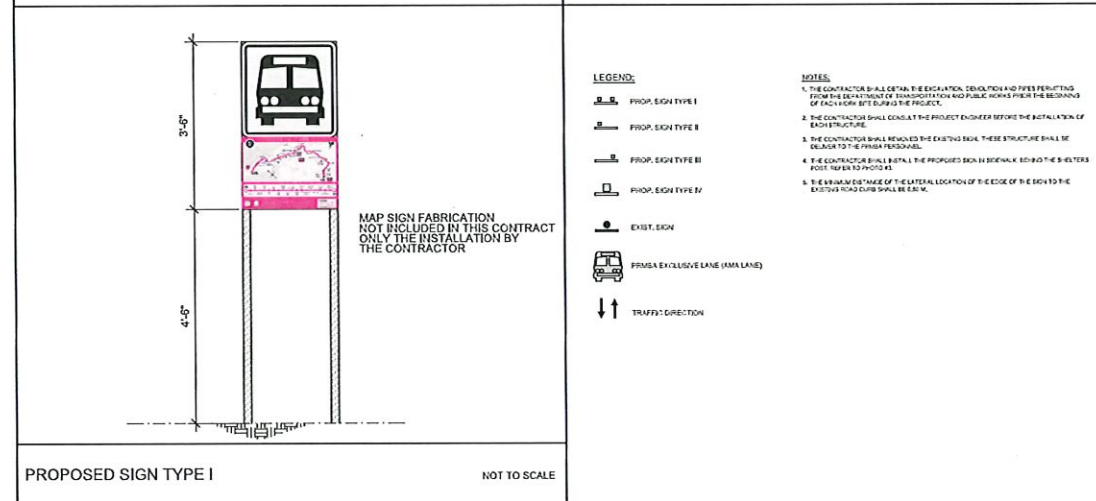


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#33

EXIST. CONDITIONS - ROUTE 9 | B.S.#33



PROPOSED SIGN TYPE I

NOT TO SCALE



LOCATION PLAN
SCALE 1:20,000
18°25'27.47"N, 66°24'51.1"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.6342 PRO

EN.Z.O.
Engineering, psc.
PO Box 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG



BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #33
FROM SAN JUAN TO CUPEY
BARBOSA AVENUE BEFORE OPPOSITE SIDE OF PALESTINA ST.
MUNICIPALITY OF SAN JUAN



METROPOLITAN BUS AUTHORITY
BOX 155343
SAN JUAN, PR 00915-0349

REVISION	
DATE: JUNE 2022	DRAW BY: ABZ
CHECKED BY: BEV	DWG. TYPE: SHEET NO. 63
TS-2.25	OF 89

Yo Hernani E. Lopez Baez, Ingeniero Civil, No. 1118-1496, certifico que este proyecto de construcción, diseño y/o modificación de las estructuras de señalización de tránsito, se realizó en conformidad con las disposiciones aplicables del Reglamento de Construcción de la Autoridad Metropolitana de Autobuses y con las disposiciones aplicables del Reglamento de Construcción de la Autoridad Metropolitana de Obras Públicas. Asimismo, certifico que este proyecto de construcción de la señalización de tránsito se realizó en conformidad con el Reglamento de Construcción de la Autoridad Metropolitana de Obras Públicas y con el Código de Edificación de la Autoridad Metropolitana de Obras Públicas.

ROUTE 9 | BUS STOP #36



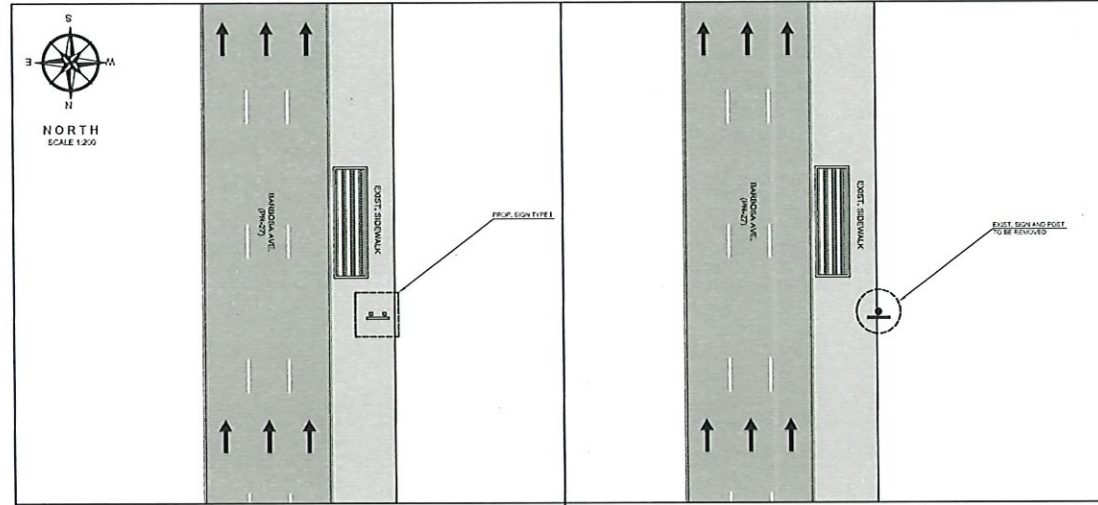
PHOTO - 1



PHOTO - 2

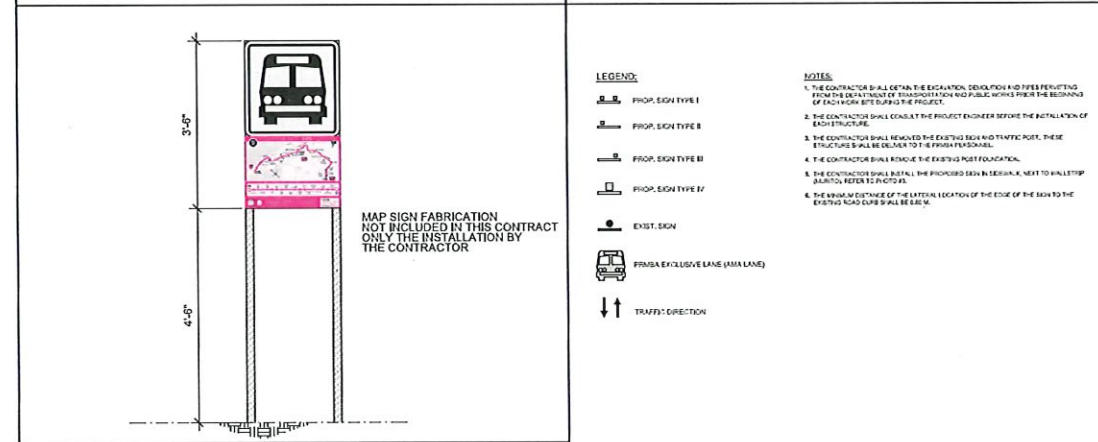
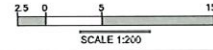


PHOTO - 3: PROPOSED SIGN LOCATION



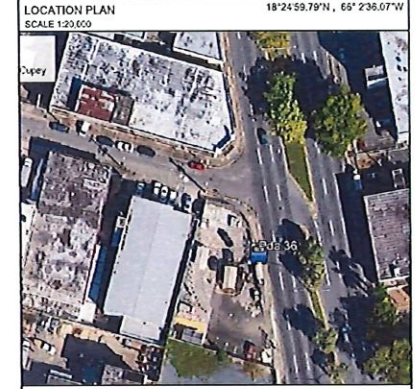
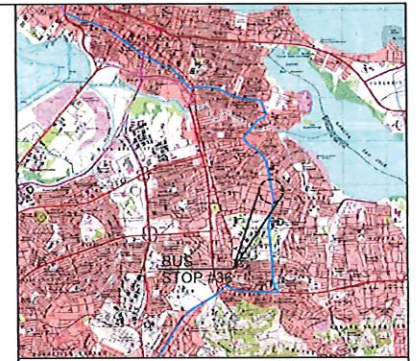
PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#36

EXIST. CONDITIONS - ROUTE 9 | B.S.#36



PROPOSED SIGN TYPE I

NOT TO SCALE



Yo, Heron E. Lopez Baez, Ingeniero Civil, certificado en el ejercicio de mi profesión, declaro que presento esta obra y las especificaciones contenidas en ella, como propias y que he cumplido con todas las obligaciones profesionales que me imponen las leyes y reglamentos vigentes de la Ingeniería Civil en Puerto Rico. Atestado por mi firma y sellado profesional. Fecha: 15 de mayo de 2022.

HERNANDEZ LOPEZ BAEZ, PE MEM LIC. 18-5195

METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 155313
SAN JUAN, PR 00915-5313

REVISION

DATE: JUNE 2022
CHECKED BY: ABZ
DRAWN BY: ABZ
DWG. TYPE: SHEET NO. 66
TS-2.28 OF 89

ROUTE 9 | BUS STOP #37

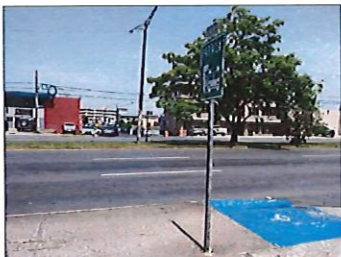


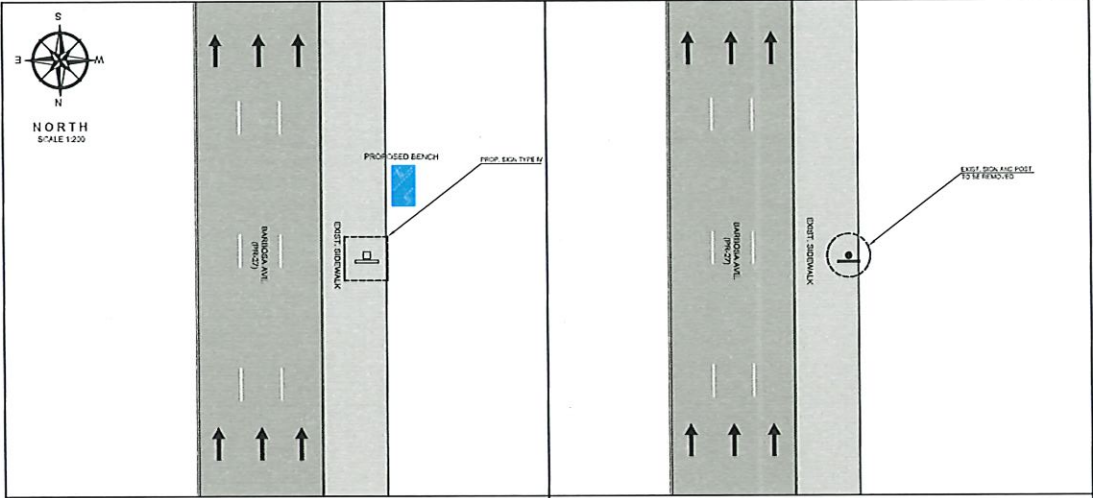
PHOTO - 1



PHOTO - 2

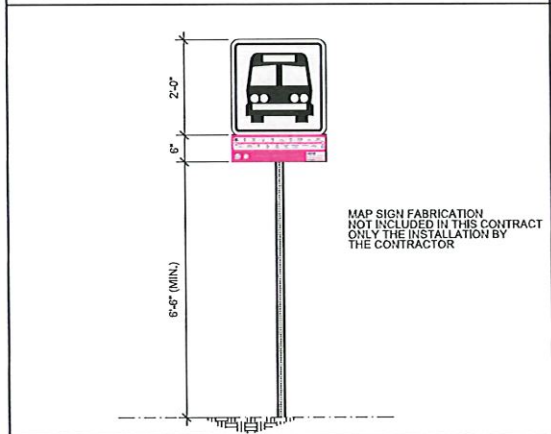


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#37

EXIST. CONDITIONS - ROUTE 9 | B.S.#37



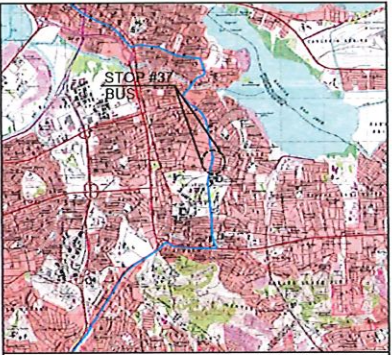
PROPOSED SIGN TYPE IV NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PMSA EXCLUSIVE LANE (Mm LANE)
- TRAFFIC DIRECTION
- PROPOSED BENCH

NOTES:

- THE CONTRACTOR SHALL DETAIL THE ERECTION, DEVELOPMENT AND FINISH PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS FROM THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
- THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
- THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DELIVERED TO THE FINISH PERSONNEL.
- THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
- THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN AND BENCH IN ACCORDANCE WITH THE PERMITS.
- THE VERTICAL DETAIL OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 5.0 M.



LOCATION PLAN 18°24'48.83\"/>



AERIAL PHOTO GOOGLE EARTH VERSION: 7.3.4.8642 PRO SCALE 1:1,000

E.N.Z.O.
Engineering, psc.
PO BOX 3040, PMS 427
GUAYAMA, PR 00973
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.DRG

HERNÁN E. LOPEZ BAEZ, PE NEM
LIC. 1554E

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #37
FROM SAN JUAN TO CUPEY
BARBOSA AVENUE OPPOSITE SIDE OF GERONA ST.
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD DE
SAN JUAN, P.R. 00931-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.29	SHEET NO. 67 OF 89

ROUTE 9 | BUS STOP #38



PHOTO - 1



PHOTO - 2

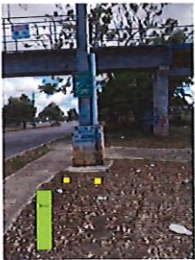
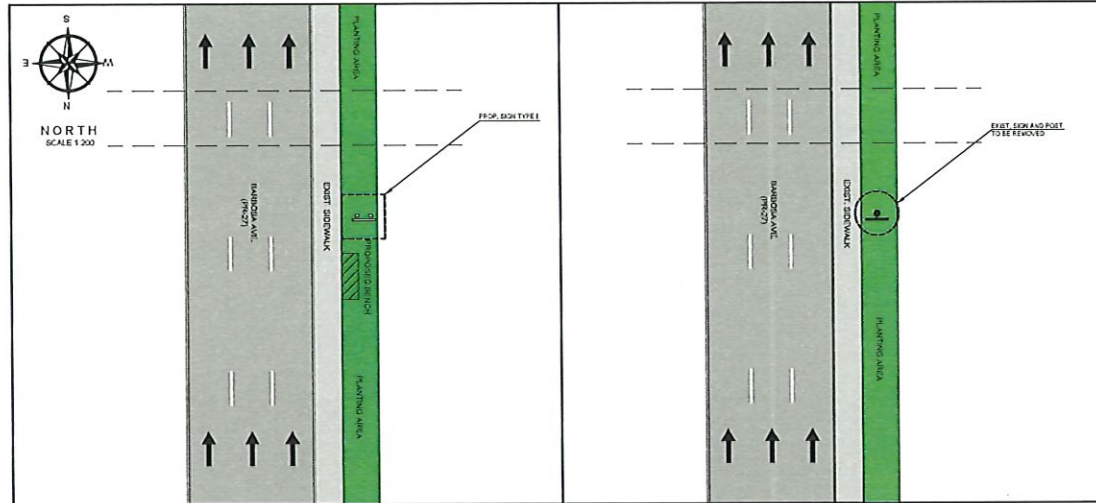
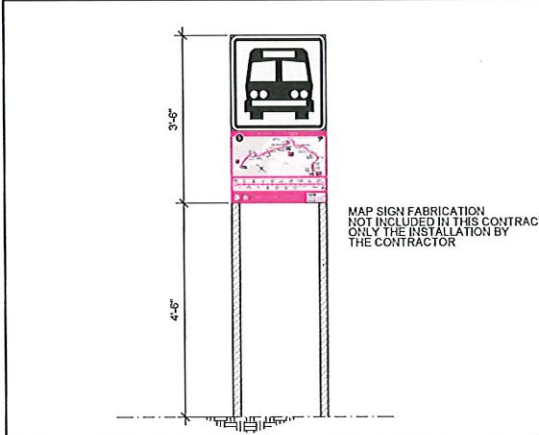
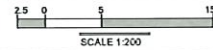


PHOTO - 3. PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#38

EXIST. CONDITIONS - ROUTE 9 | B.S.#38



PROPOSED SIGN TYPE I

NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRIVATE EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION
- PROPOSED BENCH

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EDUCATIONAL EXEMPTION AND PERMITS FROM THE DEPT. OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF ANY WORK BEING DONE ON THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DEEMED TO BE THE PROPERTY OF THE CONTRACTOR.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE BEGINNING OF WORK.
6. THE MINIMUM OFFSET OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 2.0 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN AND BENCH IN PLANTING AREA IN FRONT TO THE CONCRETE POLE. REFER TO PROPOSED IMPROVEMENT GEOMETRIC LAYOUT.



LOCATION PLAN
SCALE 1:20,000
18°24'38.94\"/>



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.6642 PRO

Se permite E. Lopez Baez, Agente Bureau 1876, certificar que es el profesional que confeccionó, diseñó, y proyectó esta planilla y la especificación completa contenida. Toda vez que certifica que dicho plano y especificación cumplen con los requisitos aplicables del Reglamento General y las disposiciones aplicables de los Reglamentos y Códigos que Constituyen el Sistema de los Reglamentos de la Corporación Metropolitana de San Juan. Para mayor información consulte con el Agente Bureo 1876. Este documento es propiedad de la Corporación Metropolitana de San Juan y no debe ser reproducido, copiado, distribuido o utilizado en forma alguna sin el consentimiento escrito de la Corporación Metropolitana de San Juan.

ENZO
engineering, psc.
PO Box 3040, PMB 427
GURARD, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOROUPLLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 10106

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #38
FROM SAN JUAN TO CUPEY
BARBOSA AVENUE AFTER OPPOSITE SIDE OF CREUZ ST.
(MIGUEL SUCH SCHOOL) MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIDAD
METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 155349
SAN JUAN, PR 00918-5349

REVISION	
DATE	JUNE 2022
CHECKED BY	BEV
DRAWN BY	ABZ
DWG. TYPE	68
TS-2.30	OF 69

ROUTE 9 | BUS STOP #39



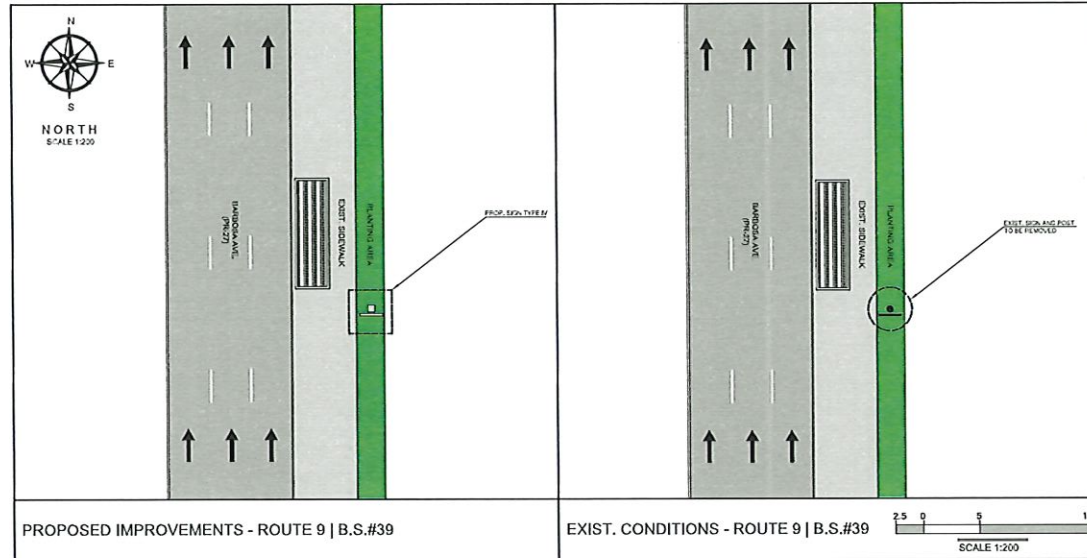
PHOTO - 1



PHOTO - 2

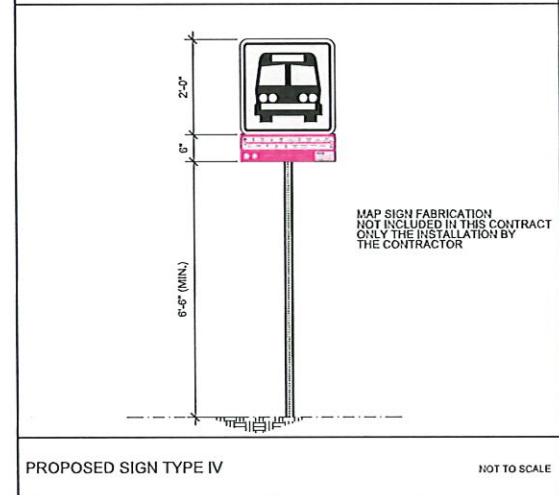


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#39

EXIST. CONDITIONS - ROUTE 9 | B.S.#39



PROPOSED SIGN TYPE IV

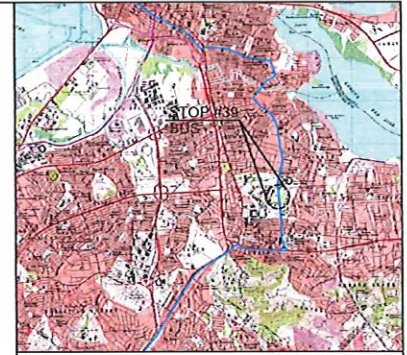
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PROP. EXCLUSIVE LANE (MIA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEVELOPMENT AND TYPING PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DELIVERED TO THE PRIMA PERSONAL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITY IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE SIDE OF THE ROAD SHALL BE 2.00 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN PLANTING AREA. REFER TO PHOTO #1.



LOCATION PLAN 18°24'20.71\"/>



AERIAL PHOTO GOOGLE EARTH VERSION: 7.3.4.8542 PRO SCALE 1:1,000

EN.Z.O.
engineering, psc.
PO BOX 3040, PH# 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZORGROUPLLC.ORG

HERNÁN E. LOPEZ BAÉZ, PE MEM
LIC. 18-546

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #39
FROM SAN JUAN TO CUPEY
BARBOSA AVENUE AFTER UPR'S ENTRANCE (RIO PIEDRAS CAMPUS)
MUNICIPALITY OF SAN JUAN

METROPOLITANA DE AUTOBUSES
AUTORIZADO

METROPOLITANA BUS AUTHORITY
BOX 136310
SAN JUAN, PR 00913-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.31	SHEET NO. 69 OF 69

ROUTE 9 | BUS STOP #40



PHOTO - 1



PHOTO - 2

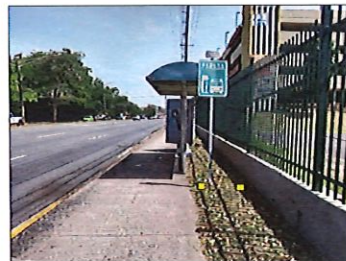
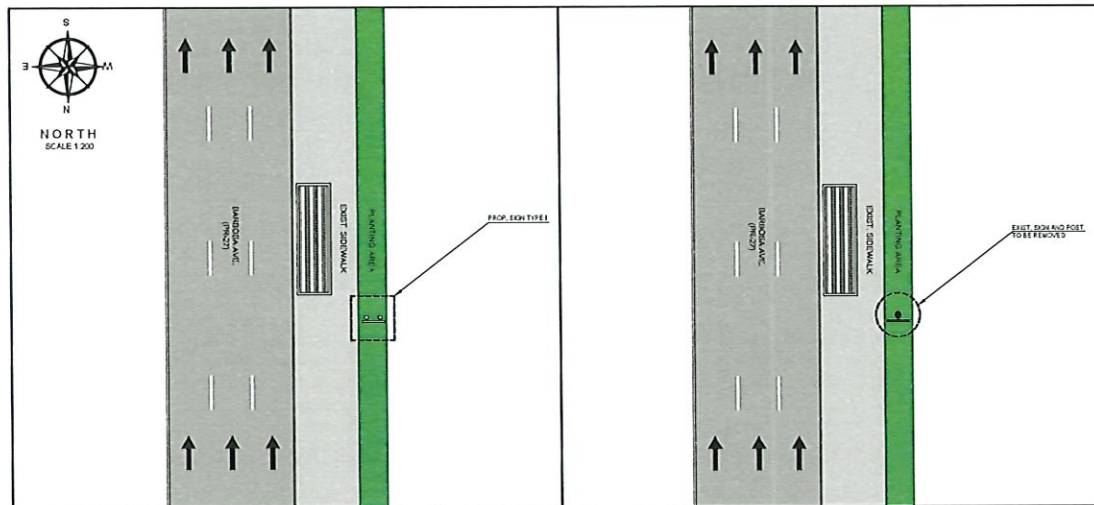
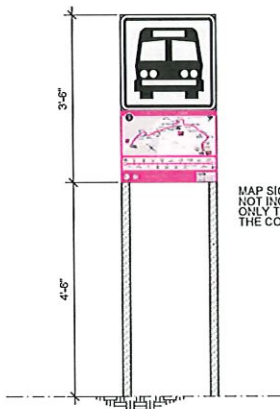


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#40

EXIST. CONDITIONS - ROUTE 9 | B.S.#40



SIGN TYPE I

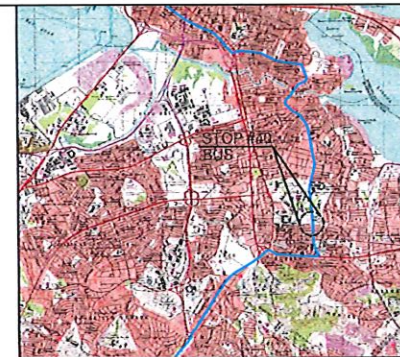
NOT TO SCALE

LEGEND:

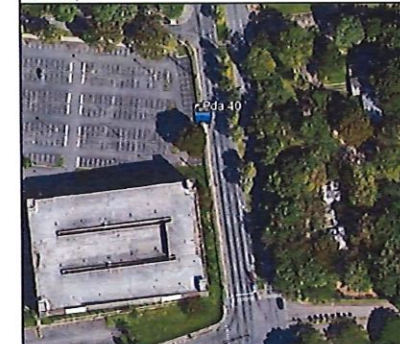
- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PBMA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE NECESSARY DISPOSITION AND PERMITS FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF ANY WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE SECURED TO THE PROPER FOUNDATION.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING MENTAL UTILITY IN THE AREA BEFORE THE WORK PROCEEDS.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 6.0' W.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA REFER TO PROJECT.



LOCATION PLAN
SCALE 1:20,000
18°24'10.81"N , 65°23'25"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION 7.3.4.66-42 PRO

Se hacen E. Local. Espec. a partir de la fecha de la aprobación de los planos. Se hace a través de la oficina y las especificaciones serán revisadas. También certifica que se han planeado y ejecutado los trabajos con los recursos asignados del Presupuesto de la Administración Ejecutiva de la Autoridad Metropolitana de Autobuses. Se hace a través de la oficina y las especificaciones serán revisadas. También certifica que se han planeado y ejecutado los trabajos con los recursos asignados del Presupuesto de la Administración Ejecutiva de la Autoridad Metropolitana de Autobuses. Se hace a través de la oficina y las especificaciones serán revisadas. También certifica que se han planeado y ejecutado los trabajos con los recursos asignados del Presupuesto de la Administración Ejecutiva de la Autoridad Metropolitana de Autobuses.

ENZO
Engineering, psc.
PO Box 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZODGROUPLLC.ORG



BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #40
FROM SAN JUAN TO CUPEY
BARBOSA AVENUE BEFORE GÁNDARA ST.
MUNICIPALITY OF SAN JUAN



METROPOLITAN BUS AUTHORITY
BOX 19549
SAN JUAN, PR 00919-5349

REVISION	
DATE	JUNE 2022
CHECKED BY	ABZ
BEV	ABZ
DWG. TYPE	SHEET NO.
TS-232	70
	OF
	89

ROUTE 9 | BUS STOP #41



PHOTO - 1



PHOTO - 2

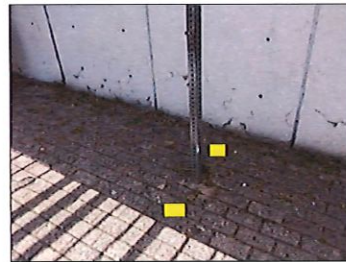
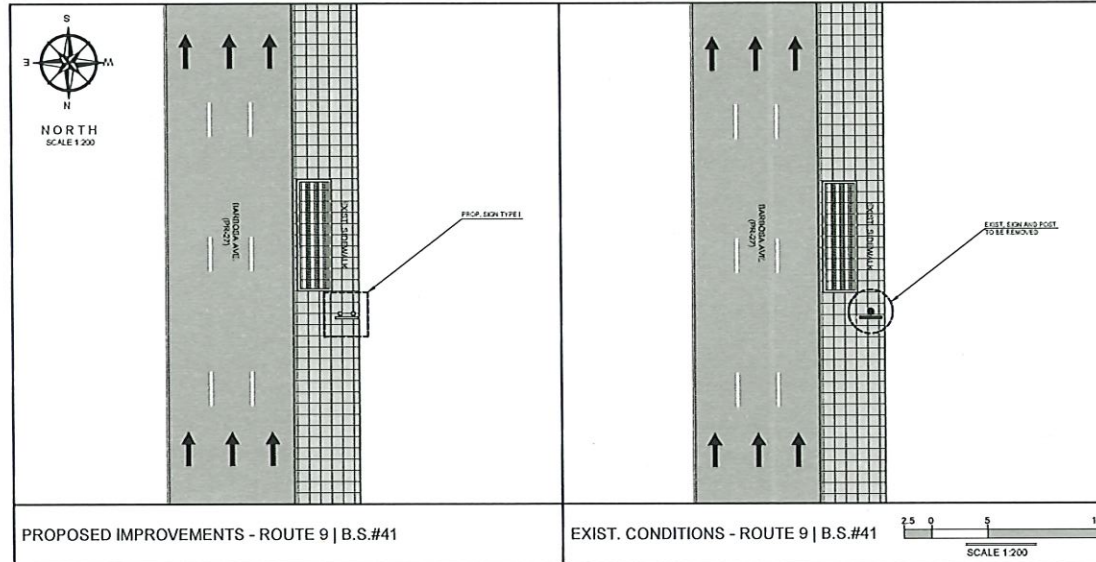
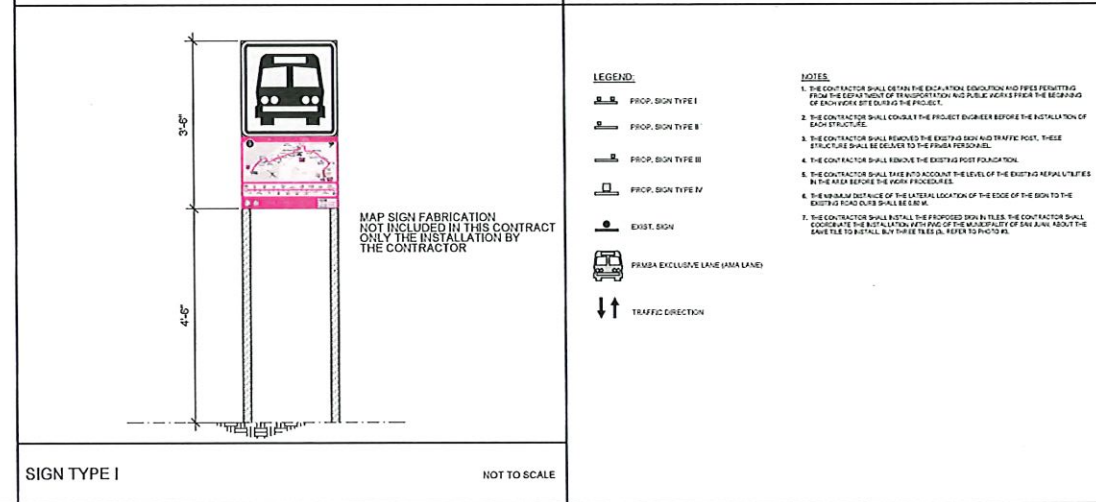
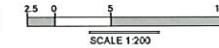


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#41

EXIST. CONDITIONS - ROUTE 9 | B.S.#41

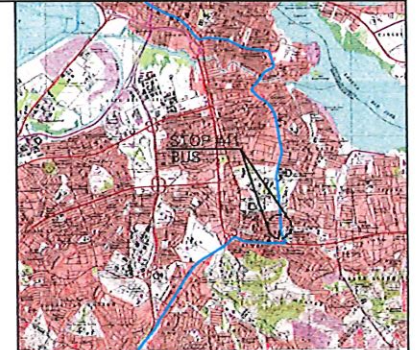


LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, EROSION AND FILL PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF ANY WORK PERTAINING TO THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DELIVERED TO THE PRIMA PERSONAL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING REPAIR UTILITY IN THE AREA BEFORE THE WORK PROCEEDS.
6. THE SIGN SHALL BE PLACED AT THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 6 INCH.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN FILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PANG OF THE MUNICIPALITY OF SAN JUAN ABOUT THE SAME TO BE INSTALLED. BUY THESE FILES TO REFER TO PHOTO 3.



LOCATION PLAN 18°23'59.58"N, 66°23'6.97"W SCALE 1:20,000



AERIAL PHOTO 18°23'59.58"N, 66°23'6.97"W SCALE 1:1,000 GOOGLE EARTH VERSION: 7.3.4.6642 PRO

Se permite el uso de esta obra por cualquier medio electrónico o mecánico, siempre que se acredite el autor y se conserve la integridad de la obra. No se permite la explotación económica de esta obra ni la transformación de la misma. Queda permitida la impresión en su totalidad o parcialmente. No se permite el uso de esta obra en Internet ni en cualquier otro medio electrónico o mecánico. Se permite el uso de esta obra en Internet y en cualquier otro medio electrónico o mecánico con fines educativos y científicos. Se permite el uso de esta obra en Internet y en cualquier otro medio electrónico o mecánico con fines educativos y científicos. Se permite el uso de esta obra en Internet y en cualquier otro medio electrónico o mecánico con fines educativos y científicos.

EN.Z.O.
Engineering, psc.
PO Box 3040, PMB 427
San Juan, PR 00978
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG



BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #41
FROM SAN JUAN TO CUPEY
BARBOSA AVENUE AFTER ROBLES ST. (CAPETILLO)
MUNICIPALITY OF SAN JUAN



METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00918-5349

DATE	JUNE 2022
CHECKED BY	DRAW BY
BEV	ABZ
DNV. TYPE	SHEET NO.
TS-2.33	71 OF 89

ROUTE 9 | BUS STOP #42



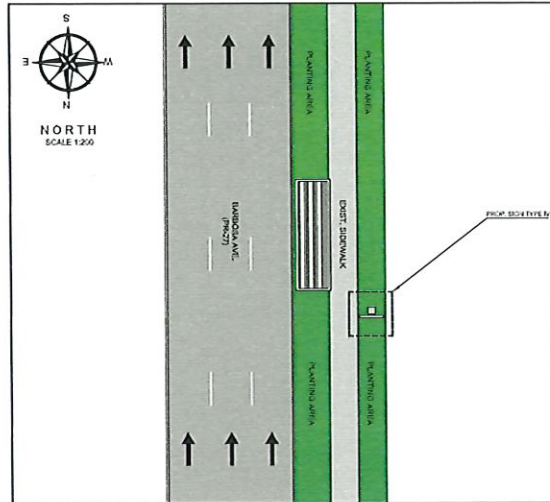
PHOTO - 1



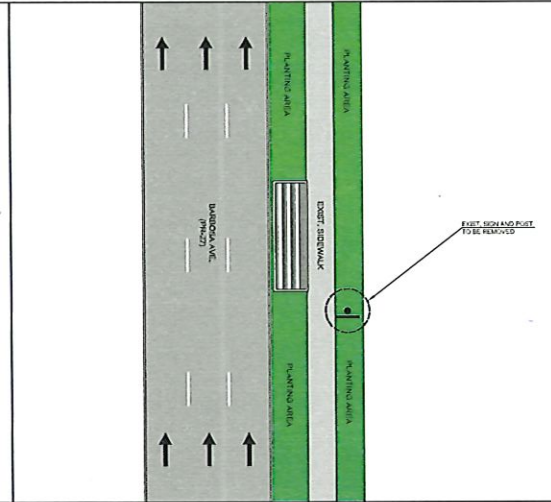
PHOTO - 2



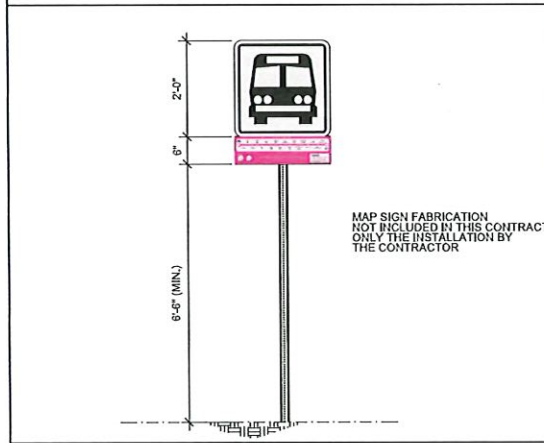
PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#42



EXIST. CONDITIONS - ROUTE 9 | B.S.#42



SIGN TYPE IV

NOT TO SCALE

MAP SIGN FABRICATION NOT INCLUDED IN THIS CONTRACT ONLY THE INSTALLATION BY THE CONTRACTOR

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMGA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PILES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE UNDER THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURES SHALL BE DELIVERED TO THE PRMGA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE EXISTING SIGN IN THE PLANTING AREA NEXT TO WHAT REFERS TO PICTURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 6'6".



LOCATION PLAN SCALE 1:20,000

18°23'48.69"N, 66°23'55.93"W



AERIAL PHOTO SCALE 1:1,000

GOOGLE EARTH VERSION: 7.3.4.6542 PRO

ENZ.O.
engineering, psc.
PO BOX 3040, PMB 427
GUAYAMA, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOOGRUPCLLC.PR



BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #42
FROM SAN JUAN TO CUPEY
BARBOSA AVENUE BEFORE 65TH INFANTERIA AVE.
MUNICIPALITY OF SAN JUAN



METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00915-5349

REVISION	
DATE: JUNE 2022	DRAW BY: ABZ
CHECKED BY: BEV	SHEET NO. 72
DATE: TS-2.34	OF 72

Yo Hernán E. López Baez, Ingeniero Mecánico No. 7888, certifico que soy el propietario de los contenidos de esta obra y que esta misma cumple con las especificaciones técnicas de la Ley de Obras Públicas y Participación Ciudadana, así como con los requisitos de la Ley de Obras Públicas y Participación Ciudadana. Asimismo, certifico que esta obra cumple con los requisitos de la Ley de Obras Públicas y Participación Ciudadana y que esta obra fue ejecutada en cumplimiento de la Ley de Obras Públicas y Participación Ciudadana. Asimismo, certifico que esta obra cumple con los requisitos de la Ley de Obras Públicas y Participación Ciudadana.

ROUTE 9 | BUS STOP #43



PHOTO - 1



PHOTO - 2

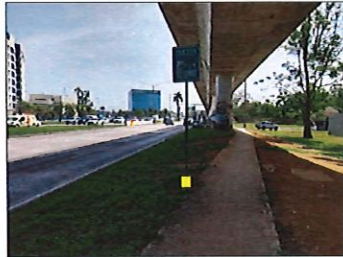
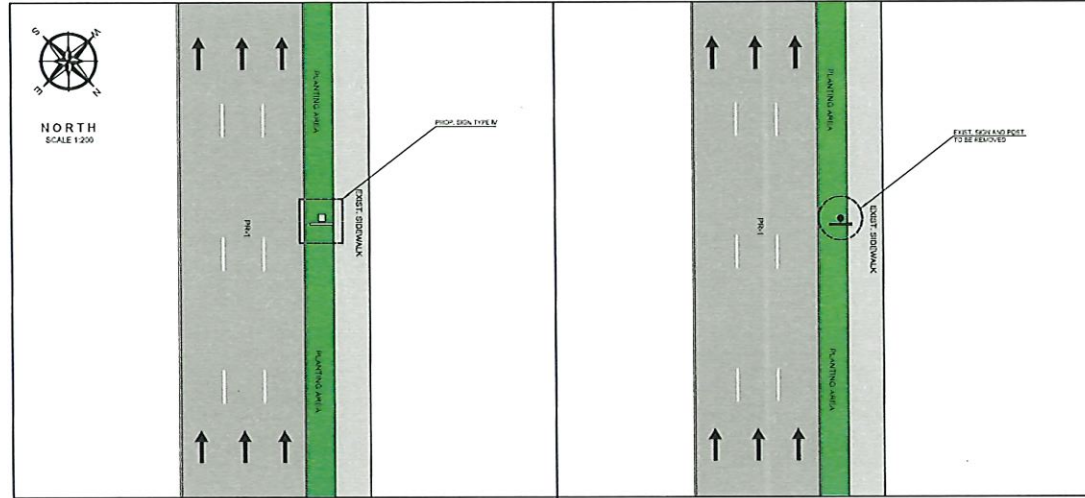
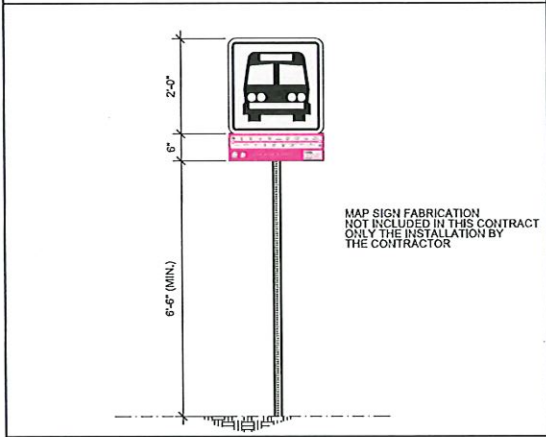
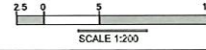


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 9 | B.S.#43

EXIST. CONDITIONS - ROUTE 9 | B.S.#43



SIGN TYPE IV

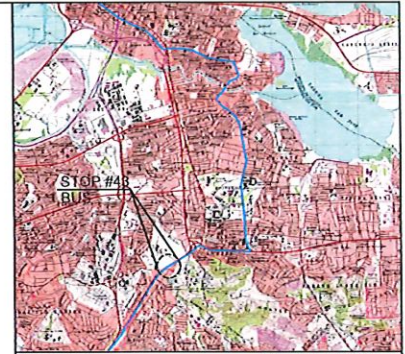
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PUMA EXCLUSIVE LANE (MAR LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, ERECTION AND POLES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR TO THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVE THE EXISTING SIGN AND TRAFFIC POLES. THESE STRUCTURES SHALL BE DELIVERED TO THE PUMA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POSE FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO 1-3.
6. THE MINIMUM SETBACK OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD EDGE SHALL BE 5.0 FT.



LOCATION PLAN SCALE 1:20,000 18°23'36.17"N, 66°32'59.59"W



AERIAL PHOTO SCALE 1:1,000 GOOGLE EARTH VERSION: 7.3.4.85412 PRO

No se permite el Copiar, Recortar, Replicar, Distribuir, ni la venta o alquiler de este documento sin la autorización expresa y por escrito de la Autoridad Metropolitana de Autorbuses de San Juan. No se permite su uso para fines de lucro. Toda infracción de los derechos de autor quedará sujeta a las acciones legales correspondientes. No se permite la reproducción, total o parcial, de este documento sin el consentimiento escrito de la Autoridad Metropolitana de Autorbuses de San Juan.

E.N.Z.O.
engineering, psc.
PO Box 3040, PMB 427
DURABO, PR 00778
TEL: (787) 649-6200 | LOPEZBAEZ@ENZODRUPLLC.ORG

MUNICIPALIDAD DE SAN JUAN
AGENCIADO LEGISLADO
PUERTO RICO
HERNANDEZ LOPEZBAEZ, PE MEM
LIC. N° 5156

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9 | BUS STOP #43
FROM SAN JUAN TO CUPEY
HIGHWAY PR-1 OPPOSITE SIDE OF PONCE DE LEÓN AVENUE (PR-8839)
MUNICIPALITY OF SAN JUAN

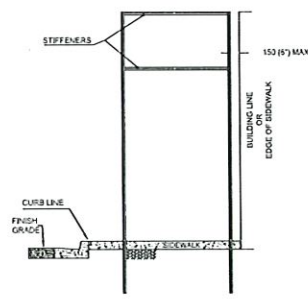
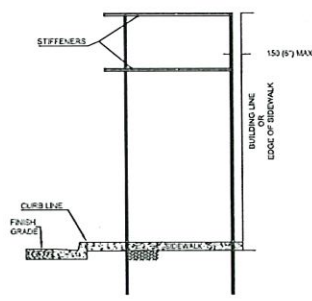
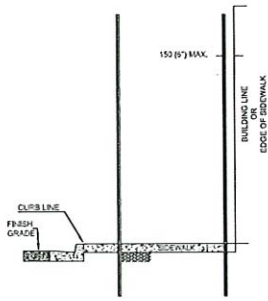
METROPOLITANA DE AUTOBUSES
AUTORIDAD DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 516349
SAN JUAN, PR 00916-5349

REVISION	

DATE: JUNE 2022	DRAWN BY: ABZ
CHECKED BY: BEV	SHEET NO. 73
DWG. TYPE: TS-2.35	OF 79

ROUTE 9 | BUS STOPS

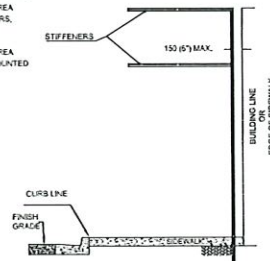
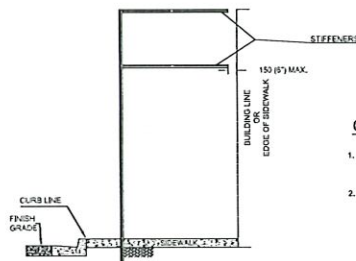


H SUPPORT MOUNTING

1. FOR SIGN PANELS WITH A SIGN PANEL AREA EQUAL OR LESS THAN 2.6 SQUARE METERS, 28 SQUARE FEET.
2. FOR SIGN PANELS WITH A SIGN PANEL AREA GREATER THAN 28 SQ USE GROUND MOUNTED SEPARATE INSTALLATION.

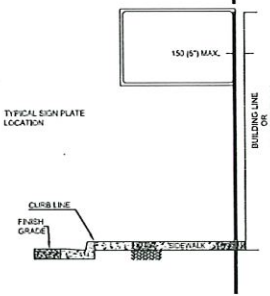
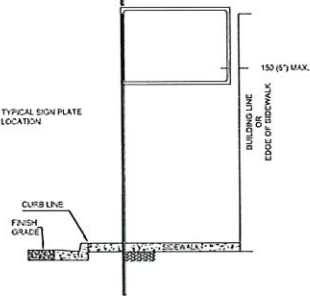
CANTILEVER SUPPORT MOUNTING

1. FOR SQUARE, RECTANGULAR, PENTAGONAL, OCTAGONAL, DIAMOND AND EQUILATERAL TRIANGLE SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH GREATER THAN 600 (24").
2. FOR OCTAGONAL, DIAMOND, TOURIST AND CIRCULAR SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH EQUAL OR LESS THAN 600 (24").



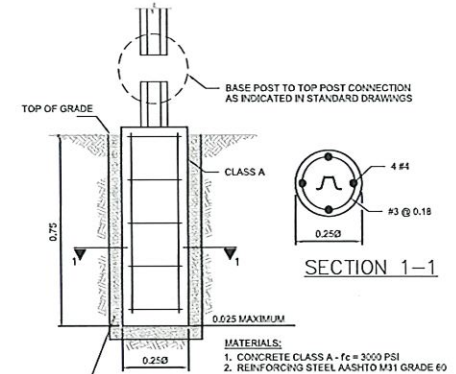
SINGLE SUPPORT MOUNTING

1. FOR SQUARE AND RECTANGULAR SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH EQUAL OR LESS THAN 600 (24").
2. FOR BIOSCELES TRIANGLE SIGN PANEL USE SINGLE SUPPORT MOUNTING.



GENERAL NOTES:

1. VERTICAL CLEARANCE TO BOTTOM OF LOWEST SIGN PANEL SHALL BE 2,130 (7-0") TO 2,300 (7-6") FROM SIDEWALK GRADE.
2. THE CONTRACTOR MAY USE STEEL FLANGED CHANNEL POST OR SQUARE STEEL POST.
3. THE FOUNDATIONS SHALL BE AS INDICATED FOR STEEL FLANGED CHANNEL AND SQUARE STEEL POST FOUNDATION DETAILS FOR SIDEWALK OR CONCRETE PAVED AREA STANDARD DRAWING.
4. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST TO STIFFENERS CONNECTION.
5. ALL VERTICAL POSTS SHALL BE CONTINUOUS IN LENGTH.
6. THE MAXIMUM AREA PERMITTED FOR SINGLE AND CANTILEVER SUPPORT MOUNTING SHALL BE 6 SQUARE FEET.
7. STIFFENERS SHALL BE SQUARE POST, STEEL FLANGED CHANNEL OR ALTERNATE STIFFENER.
8. MINIMUM OFFSET FROM CURB LINE TO SIGN PANEL SHALL BE 600 (24") MIN.
9. THE CONTRACTOR SHALL LOCATE POST AND STIFFENERS AS PER TYPICAL POST LOCATION FOR MOUNTING ON SIDEWALK AREAS WITH OR WITHOUT PLANTING STRIP STANDARD DRAWINGS.



- MATERIALS:**
1. CONCRETE CLASS A - $f_c = 3000$ PSI
 2. REINFORCING STEEL AASHTO M31 GRADE 60

- FOR NATURAL SOIL, SATURATED CLEAN SAND WITH LESS THAN 5% PASSING THE #200 SIEVE BACKFILL AGAINST UNDISTURBED SOIL.
- FOR ROCK CONDITION, BACKFILL WITH 1,000 PSI GROUT

NOTE:
ALL DIMENSIONS SHOW ARE IN METERS UNLESS OTHERWISE SPECIFIED.

This contract is subject to the terms and conditions of the contract documents for the project and shall be controlled by the contract documents. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities. The contractor shall be responsible for obtaining all necessary permits and approvals from the appropriate authorities.

EN · Z · O.
engineering, psc.

PO BOX 3040, PMB 427
BURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOROFLCO.DIG



HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 14698

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9
STEEL POST - INSTALLATION TO CONCRETE SLAB
STEEL FLANGED CHANNEL

FROM CUPEY TO SAN JUAN
MUNICIPALITY OF SAN JUAN

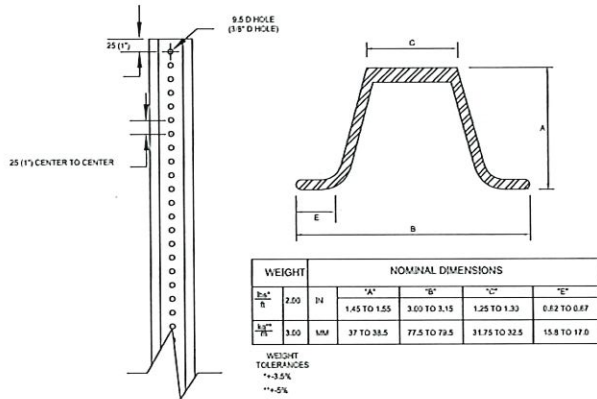
AUTORIDAD
METROPOLITANA DE
AUTOBUSES



METROPOLITAN BUS AUTHORITY
BOX 150419
SAN JUAN, PR 00918-0419

REVISION	
DATE: JUNE 2022	DRAWN BY:
CHECKED BY: BEV	ABZ
DWG. TYPE: TS-3.02	SHEET NO. 75 OF 79

ROUTE 9 | BUS STOPS



GENERAL NOTES:

1. STEEL POST SHALL CONFORM TO THE REQUIREMENTS OF ASTM A499, GRADE 60 OR MARION STEEL COMPANY GRADE SP-80.
2. AFTER FABRICATION, POST SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH AASHTO M111 (ASTM A123).
3. THE BASE POST MAY HAVE SLOTTED HOLE 9.5 X 13 FOR THE FIRST AND FIFTH HOLE.

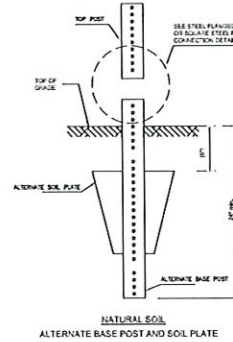
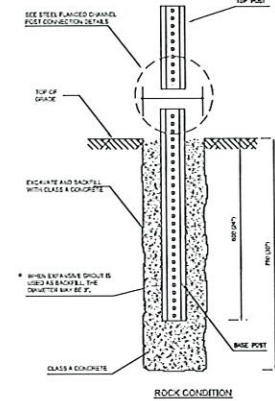
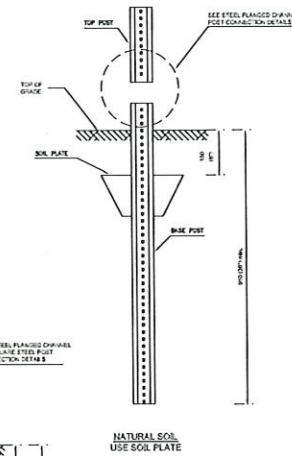
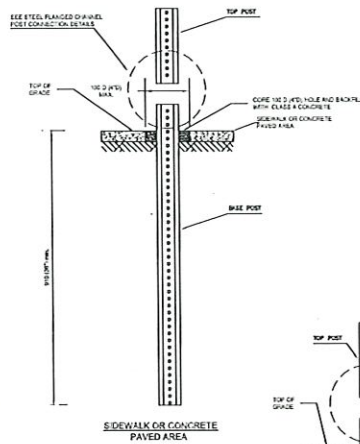
**STEEL FLANGED CHANNEL
TOP OR BASE POST**

NOTE APPLICABLE TO ALL SMALL TRAFFIC SIGNS DRAWINGS:

1. ALL DIMENSIONS GIVEN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED. DIMENSIONS GIVEN IN METERS SHALL BE INDICATED WITH "M". DIMENSIONS GIVEN IN INCHES SHALL BE INDICATED WITH "I". DIMENSIONS GIVEN IN FEET SHALL BE INDICATED WITH "F".
2. SYSTEMS IN ENGLISH UNITS ARE ACCEPTABLE.
3. DIAMETER SHALL BE INDICATED WITH "Ø".
4. REFLECTIVE SHEETING USED ON ALL SIGNS SHALL CONFORM TO ASTM D4956, TYPE II. THE BACKING SHALL BE CLASS 1 OR 2.

**NOTE APPLICABLE TO ALL BASE TO TOP
POST CONNECTION DETAILS:**

1. CONTRACTORS, SUB-CONTRACTORS OR SUPPLIERS WHO WISH TO INCLUDE THEIR PRODUCTS INTO THE APPROVED LISTING OF COUPLINGS BETWEEN THE BASE AND TOP POST MUST SUBMIT THE FOLLOWING INFORMATION FOR CONSIDERATION BY THE AUTHORITY: COPY OF FINAL LETTER OF ACCEPTANCE THAT THE DEVICE COMPLIES WITH THE WITHPOST REPORT 350 REQUIREMENTS, FULL DESCRIPTION AND DRAWINGS OF THE COUPLER INVOLVING DIMENSIONS OF ALL COMPONENTS AND COMPLETE MATERIAL DESCRIPTION OF THE BASE METAL, GALVANIZING, FASTENERS AND OTHER PERTINENT INFORMATION.



GENERAL NOTES:

1. THE CONTRACTOR SHALL USE APPROPRIATE SIZE DRIVE CAP TO DRIVE POSTS. FOR SIDEWALK OR CONCRETE PAVED AREA, THE CONTRACTOR SHALL USE AN ALTERNATE SOIL AND FILL WITH CLASS 4 CONCRETE AS A SUBSIDIARY SOLUTION.
2. ON ROCK CONDITIONS, THE CONTRACTOR SHALL ENCASE IN 4" DIAMETER HOLE AND BACKFILL WITH CLASS 4 CONCRETE OR ENCASE IN 4" DIAMETER HOLE AND BACKFILL WITH 4" DIAMETER CIRCLES AS A SUBSIDIARY SOLUTION.

By Order of the Board of Directors, the undersigned hereby certifies that the above drawings were prepared and submitted to the Board of Directors of the Metropolitan Authority of San Juan, Puerto Rico, for their approval and that the same have been approved and authorized for use in accordance with the provisions of the laws and regulations of the Government of Puerto Rico. In witness whereof, the undersigned has hereunto set his hand and the seal of the Metropolitan Authority of San Juan, Puerto Rico, at San Juan, Puerto Rico, this 15th day of June, 2022.

EN · Z · O.
engineering, psc.

PO BOX 3040, PHB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZORPULLC.ORG

HERNAN E. LOPEZ BAEZ, PE MEH
LIC. 13141E

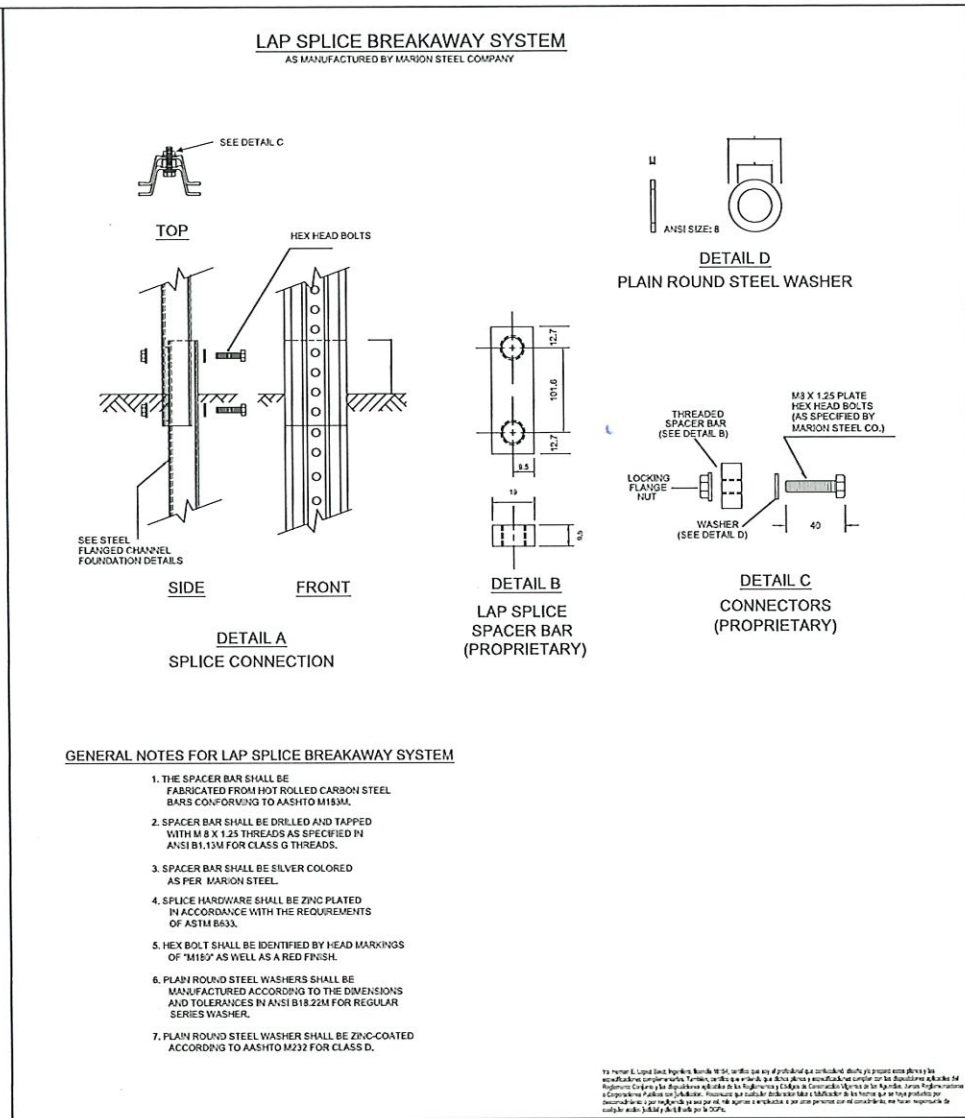
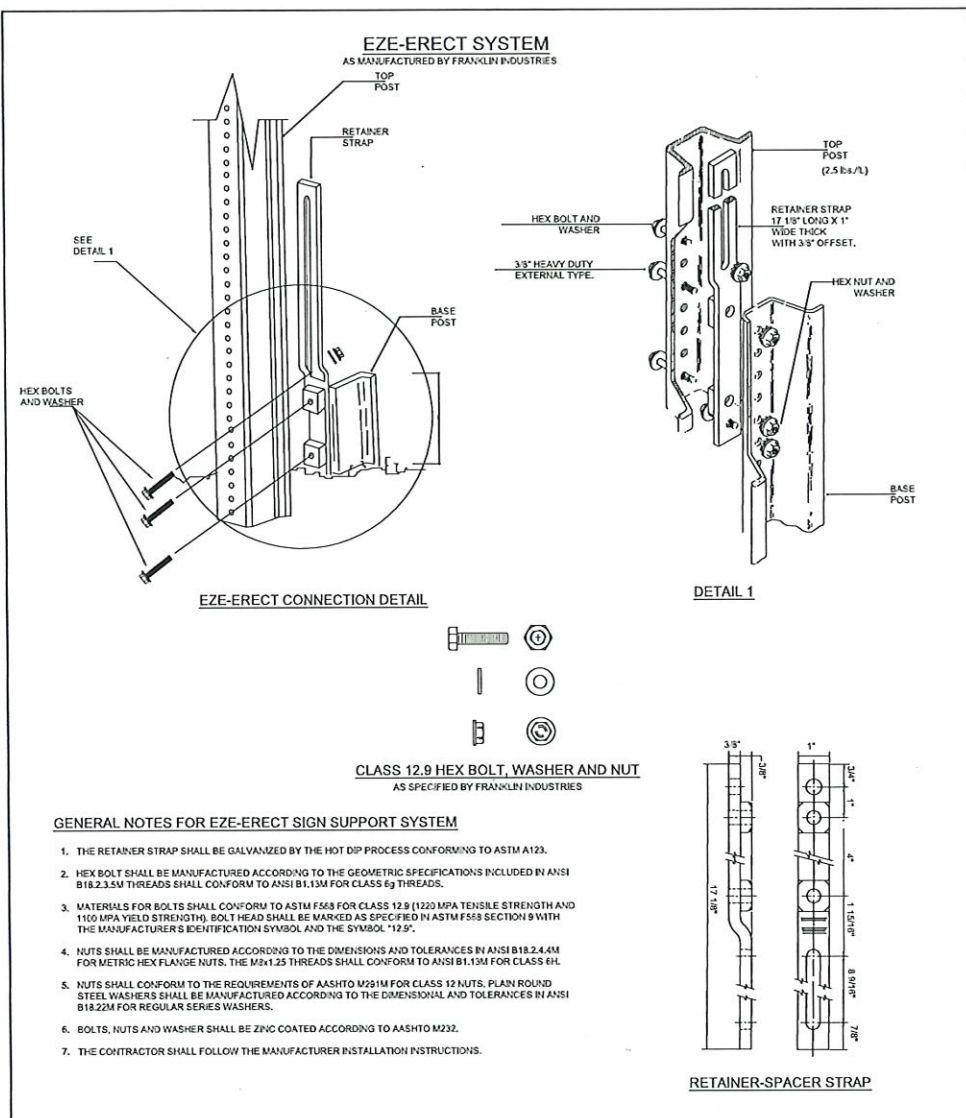
**BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9
STEEL POST - STEEL FLANGED CHANNEL DETAILS
AND FOUNDATIONS**

FROM CUPEY TO SAN JUAN
MUNICIPALITY OF SAN JUAN

AUTORIZADO
**METROPOLITANA DE
AUTOBUSES**

REVISION	
DATE: JUNE 2022	CHECKED BY: DRAW BY:
BEV	ABZ
DWG. TYPE:	SHEET NO.
TS-3.03	76 OF
89	

METROPOLITANA DE AUTORIDAD
BOX 135349
SAN JUAN, PR 00918-5349



EN · Z · O.
Engineering, psc.

PO BOX 3040, PMS 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOROPULLCO.DR

HERNAN E. LOPEZ BAEZ
INGENIERO EN ELECTRICIDAD
P.R. 1974
LIC. 1° 5476

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9
STEEL POST - STEEL FLANGED CHANNEL DETAILS
AND FOUNDATIONS

FROM CUPEY TO SAN JUAN
MUNICIPALITY OF SAN JUAN

AUTODIAD
METROPOLITANA DE
AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 155349
SAN JUAN, PR 00918-5349

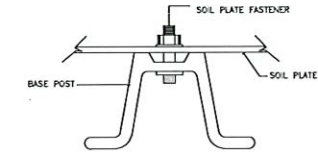
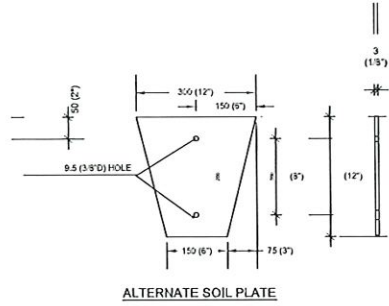
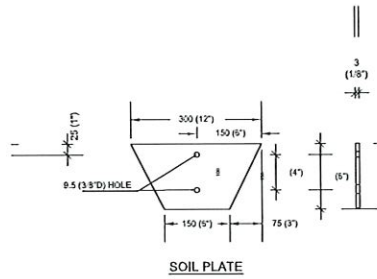
REVISION

DATE: JUNE 2022

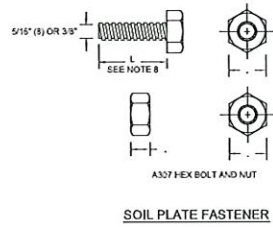
CHECKED BY: BEV DRAW BY: ABZ

DWG. TYPE: TS-3.04 SHEET NO. 77

OF 77



FLANGED CHANNEL POST
METHOD OF ATTACHING SOIL PLATE TO POST



GENERAL NOTES:

- 1. SOIL PLATE SHALL BE MANUFACTURED ACCORDING TO AASHTO M193.
- 2. AFTER ALL FINISHING, DRILLING, STAMPING AND WELDING IS COMPLETE, THE SOIL PLATE SHALL BE ZINC-COATED BY THE HOT-DIP PROCESS ACCORDING TO AASHTO M111 (ASTM A 123), THICKNESS GRADE 65.
- 3. THE CONTRACTOR SHALL ADJUST THE LENGTH OF BOLT, THE BOLT SHALL PENETRATE THE ENTIRE THICKNESS OF THE NUT.
- 4. THE CONTRACTOR SHALL USE TWO (2) SOIL PLATE FASTENERS FOR ATTACHING SOIL PLATE TO BASE POST.

Yo Autor E. Lopez Baez, Director de la Oficina de Ingenieros Profesionales de la Isla de Puerto Rico, en virtud de la licencia profesional que me ha conferido el Estado Libre Asociado de Puerto Rico, autorizo a los señores E. LOPEZ BAEZ y HERNANDEZ LOPEZ BAEZ, Ingenieros Profesionales, para que ejecuten el presente proyecto de obra civil en el cual se incluye el diseño y construcción de un sistema de señalización de parada de autobús en la Ruta 9, desde el Municipio de San Juan hasta el Municipio de Ponce. Asimismo, autorizo a los señores E. LOPEZ BAEZ y HERNANDEZ LOPEZ BAEZ para que actúen como representantes de este sistema de señalización de parada de autobús en la Ruta 9, desde el Municipio de San Juan hasta el Municipio de Ponce. Este poder se otorga en virtud de la licencia profesional que me ha conferido el Estado Libre Asociado de Puerto Rico.



PO BOX 3040, PMB 427
DURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGRUPOLLC.ORG



HERNANDEZ LOPEZ BAEZ, FERNANDEZ
LIC. 1549

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9
STEEL POST - STEEL FLANGED CHANNEL
SOIL PLATE DETAILS

FROM CUPEY TO SAN JUAN
MUNICIPALITY OF SAN JUAN

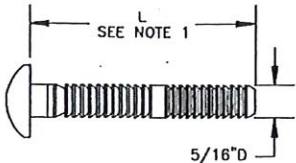


METROPOLITAN BUS AUTHORITY
BOX 105349
SAN JUAN, PR 00910-5349

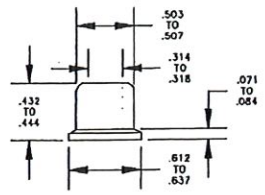
REVISION

DATE: JUNE 2022

CHECKED BY:	DRAW BY:
BEV	ABZ
DWG. TYPE:	SHEET NO.
TS-3.05	78
	OF
	89



MAGNA GRIP FASTENER
AS MANUFACTURED BY HUCK
PART NUMBER IDENTIFICATION: MGPB-E 5/16" - 22 G



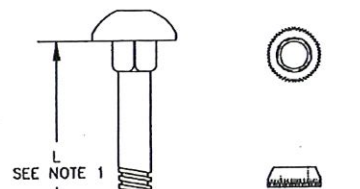
MAGNA GRIP COLLAR
AS MANUFACTURED BY HUCK
PART NUMBER IDENTIFICATION: MGC-F 5/16" G



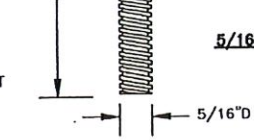
ACCEPTABLE FEATURES; SUBSTANTIALLY FLUSH WITH END
FOR MAGNA GRIP FASTENER



UNACCEPTABLE FEATURES
FOR MAGNA GRIP FASTENER

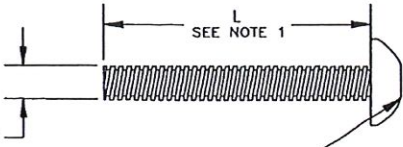


5/16" TAMPER-NUT

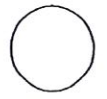


**ALUMINUM VANDAL RESISTANT
GENERAL NOTES**

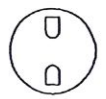
- THE CONTRACTOR SHALL ADJUST THE LENGTH OF BOLT ACCORDING TO THE POST TYPE. THE BOLT SHALL PENETRATE THE ENTIRE THICKNESS OF THE NUT.
- THE CONTRACTOR SHALL USE A NYLON, NEOPRENE OR FIBER WASHER BETWEEN REFLECTIVE SHEATHING SIGN FACE AND THE BOLT HEAD.
- CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS WHO WISH TO INCLUDE THEIR PRODUCTS INTO THE APPROVED LISTING OF FASTENERS FOR SIGN PLATES MUST SUBMIT THE FOLLOWING INFORMATION FOR CONSIDERATION BY THE AUTHORITY: FULL DESCRIPTION AND DRAWINGS OF THE FASTENERS AND COMPLETE MATERIAL DESCRIPTION, GALVANIZING AND OTHER PERTINENT INFORMATION.
- FASTENER DETAILS ARE FOR ILLUSTRATIVE PURPOSE ONLY.



5/16" D - 18 UNC
CARRIAGE, TRUSS HEAD,
ONE WAY TRUSS HEAD OR
ALUMINUM ONE ROUND HEAD BOLT.



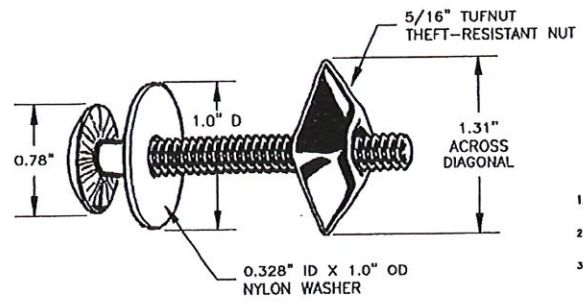
CARRIAGE BOLT



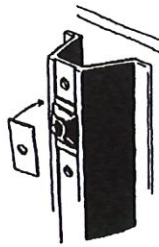
TRUSS HEAD BOLT



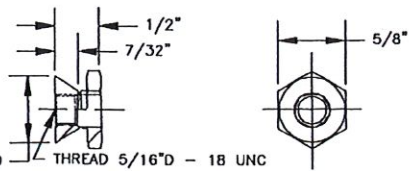
**ONE WAY TRUSS HEAD BOLT
OR ALUMINUM ONE WAY ROUND HEAD**



TUFBOLT SYSTEM - TBS 25
AS MANUFACTURED BY THE TUFNUT WORKS
A DIVISION OF SANTA FE SYSTEMS, INC.



**TUFNUT MARION
POST WASHERS**



5/8" D THREAD 5/16" D - 18 UNC
ALUMINUM STD. THREAD VANDL-GARD-NUT
VGN 138-5
AS MANUFACTURED BY SIMI FASTENING

EN-Z-O
engineering, psc.

PO BOX 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZORPULLC.ORG



HERNAN E. LOPEZBAEZ, FE MEM
LIC. 1554E

**BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9**

STEEL POST - STEEL FLANGED CHANNEL
FOR ATTACHING SIGN PLATES TO TOP POST

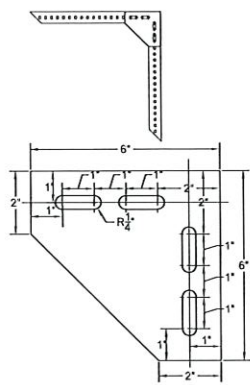
FROM CUPEY TO SAN JUAN
MUNICIPALITY OF SAN JUAN

AUTODOMD
**METROPOLITANA DE
AUTOBUSES**

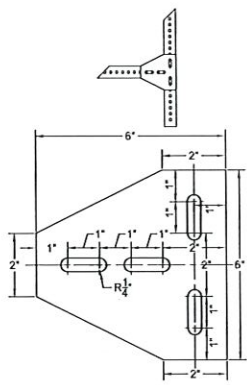


METROPOLITAN BUS AUTHORITY
BOX 125349
SAN JUAN, PR 00918-5349

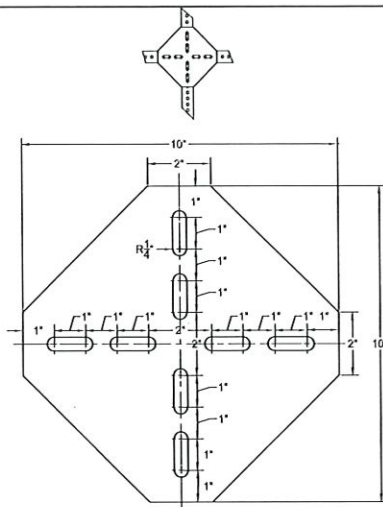
REVISION	
DATE:	JUNE 2022
CHECKED BY:	BEV
DRAW BY:	ABZ
DIAG. TYPE:	79
SHEET NO.:	79
TS-3.06	OF



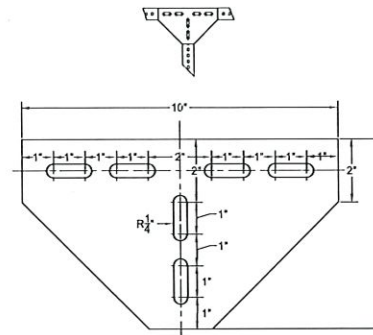
"L" FLAT PLATE



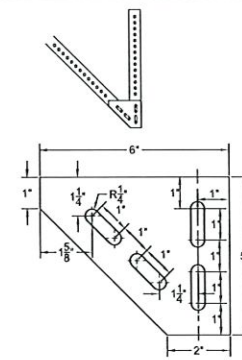
"T" FLAT PLATE



"+" FLAT PLATE

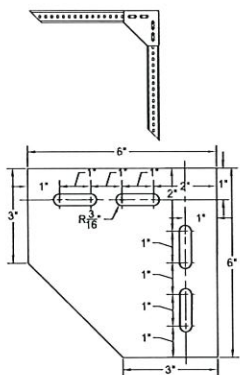


ALTERNATE "T" FLAT PLATE

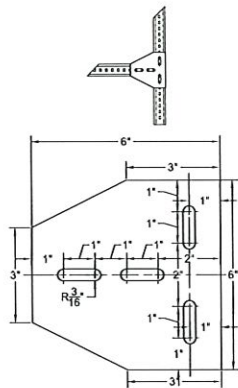


45° FLAT PLATE

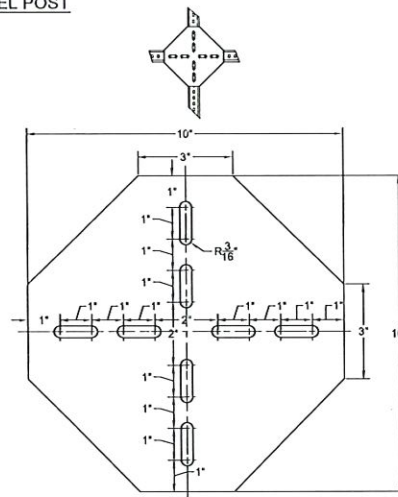
FLAT PLATE FOR SQUARE STEEL POST OR STEEL FLANGED CHANNEL POST



"L" FLAT PLATE



"T" FLAT PLATE



"+" FLAT PLATE

FLAT PLATE FOR STEEL FLANGED CHANNEL POST

GENERAL NOTES:

1. THE STEEL FLAT PLATE SHALL CONFORM WITH THE REQUIREMENTS OF ASTM A570 GRADE 33 OR ASTM A53.
2. THE CONTRACTOR MAY USE ALUMINUM FLAT PLATE AS AN ALTERNATE. ALTERNATE FLAT PLATE SHALL CONFORM TO ASTM B-203, ALLOY 5052 H32. THE CONTRACTOR SHALL DRILL NECESSARY HOLES TO COMPLETE INSTALLATION AS A SUBSIDIARY OBLIGATION.
3. AFTER ALL PUNCHING, DRILLING, STAMPING AND WELDING IS COMPLETE, THE STEEL FLAT PLATE SHALL BE ZINC-COATED BY THE HOT-DIP PROCESS ACCORDING TO AASHTO M111 (ASTM A123).
4. ALUMINUM OR STEEL FLAT PLATE THICKNESS SHALL BE 1/8".
5. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST AND STIFFENER CONNECTIONS AS A SUBSIDIARY OBLIGATION.
6. THE CONTRACTOR SHALL PLACE AT LEAST TWO 5/16" ALUMINUM FLAT HEAD MACHINE SCREWS WITH NUTS AND LOCK WASHER PER EACH POST.

Se autorizo a Lopez Baez Ingenieros, Arquitectos e Ingenieros en el campo de la Ingeniería Civil, Mecánica y Eléctrica, a prestar servicios profesionales de consultoría, supervisión y diseño de obras de infraestructura de transporte público. Los servicios serán prestados bajo la supervisión y responsabilidad profesional del Ingeniero Consultor. Los dibujos y planos serán propiedad intelectual de Lopez Baez Ingenieros, Arquitectos e Ingenieros. Toda reproducción no autorizada de estos documentos sin el consentimiento escrito de Lopez Baez Ingenieros, Arquitectos e Ingenieros será considerada una infracción de la ley y será perseguida por las autoridades correspondientes.

EN · Z · O.
engineering, psc.

PO Box 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZODRUPLLC.ORG



HERNAN E. LOPEZBAEZ, PE MEU
LIC. 19548

**BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9
STEEL POST - STEEL FLANGED CHANNEL
"L", "T", "+" AND 45° FLAT PLATES**

FROM CUPEY TO SAN JUAN
MUNICIPALITY OF SAN JUAN

AUTODOMIO
**METROPOLITANA DE
AUTOBUSES**



METROPOLITANA BUS AUTHORITY
BOX 136349
SAN JUAN, PR 00913-6349

REVISION

DATE: JUNE 2022	DRAW BY: ABZ
CHECKED BY: BEV	SHEET NO. 81
DWG. TYPE: TS-3.08	OF

GENERAL NOTES APPLICABLE TO ALL SMALL TRAFFIC SIGNS STANDARD DRAWINGS

1. NO SPLICES IN SIGN PLATES SHALL BE PERMITTED WHEN SIGN DIMENSIONS ARE 1200 (4') X 1200 (4') MILLIMETERS OR LESS.
2. NO SPLICES IN THE REFLECTIVE SHEETING WILL BE PERMITTED WHEN THE SIGN HEIGHT IS 1200 MILLIMETERS (4') OR LESS. NO REFLECTIVE SHEETING SPLICES WILL BE PERMITTED IN DIAMOND SIGNS WITH DIMENSIONS OF 1200 MILLIMETERS (4') OR LESS. ON SIGNS WITH HEIGHTS IN EXCESS OF 1200 MILLIMETERS (4'), A SINGLE HORIZONTAL SPLICE WILL BE PERMITTED. THE SPLICE UPPER PANEL SHALL OVERLAP 3/8" MAX. THE LOWER PANEL.
3. SIGN PLATES SHALL CONFORM TO ASTM B-209, ALLOYS 5052 H-32, 5052 H-36, 5052 H-38, 5086 H-34, 5154 H-36 OR 6061 T-6.
4. ALL TOP POSTS AND BASE POSTS SHALL BE CONTINUOUS IN LENGTH.
5. THE SIGN BACKGROUND, LEGEND AND BORDER SHALL BE APPLIED BY THE SILK SCREEN PROCESS, BY DIRECT APPLICATION OF CUT OUT CHARACTERS, OR BY THE APPLICATION OF ELECTRONIC CUTTABLE FILM, SERIES 1170, AS MANUFACTURED BY 3M OR ELECTRONIC CUTTABLE TRANSPARENT OVERLAY FILM, SERIES 4800, AS MANUFACTURED BY STIMSONITE. REGARDLESS OF THE METHOD OF FABRICATION, THE BACKGROUND, LEGEND AND BORDER SHALL MEET THE REFLECTIVITY STANDARDS OF ASTM D4956, TYPE III.
6. SIGN PLATES THICKNESS SHALL BE AS FOLLOWS:

MINIMUM PLATE THICKNESS IN (MM)	PLATE AREA SQF (SQM)
1/16" (1.5)	UP TO 10.8 (UP TO 1.00)
1/8" (3.175)	10.85 TO 53.8 (1.01 TO 5.00)

7. THE CONTRACTOR SHALL DRILL ALL ADDITIONAL HOLES, AS A SUBSIDIARY OBLIGATION, AS NECESSARY TO ACCOMMODATE MOUNTING REQUIREMENTS. THE HOLE DIAMETER SHALL NOT EXCEED 1/16" THE BOLT DIAMETER.
8. THE CONTRACTOR SHALL USE ON ALL BOLTS WHICH CONTACT THE REFLECTIVE SHEETING, A NYLON, NEOPRENE OR FIBER WASHER BETWEEN THE REFLECTIVE SHEETING SIGN FACE AND THE BOLT HEAD.
9. ALL BOLTS IDENTIFIED AS A307 SHALL CONFORM WITH ASTM A307 REQUIREMENTS AND BE PROVIDED WITH CORRESPONDING NUT AND WASHER. BOLTS A307 SHALL BE EITHER GRADE A OR B AND SHALL BE HOT-DIP GALVANIZED. UNLESS OTHERWISE SPECIFIED, BOLT HEAD MAY BE EITHER HEX OR CARRIAGE.
10. REFLECTIVE SHEETING FROM DIFFERENT MANUFACTURERS SHALL NOT BE MIXED WITHIN THE SAME SIGN PANEL. SIGN PANELS FABRICATED WITH REFLECTIVE SHEETING FROM DIFFERENT MANUFACTURERS SHALL NOT BE MIXED WITHIN THE SAME SIGN SUPPORT.

Yo, el personal de Ingeniería Profesional, certificado en el ejercicio de la profesión de ingeniero civil, certifico que el presente proyecto de planos cumple con los requisitos establecidos en el Reglamento de Ejercicio de la Profesión de Ingeniero Civil y en el Reglamento de Ejercicio de la Profesión de Arquitecto, y que el presente proyecto de planos cumple con los requisitos establecidos en el Reglamento de Ejercicio de la Profesión de Arquitecto y en el Reglamento de Ejercicio de la Profesión de Ingeniero Civil. Asimismo, certifico que el presente proyecto de planos cumple con los requisitos establecidos en el Reglamento de Ejercicio de la Profesión de Ingeniero Civil y en el Reglamento de Ejercicio de la Profesión de Arquitecto. Yo, el personal de Ingeniería Profesional, certifico que el presente proyecto de planos cumple con los requisitos establecidos en el Reglamento de Ejercicio de la Profesión de Ingeniero Civil y en el Reglamento de Ejercicio de la Profesión de Arquitecto. Asimismo, certifico que el presente proyecto de planos cumple con los requisitos establecidos en el Reglamento de Ejercicio de la Profesión de Ingeniero Civil y en el Reglamento de Ejercicio de la Profesión de Arquitecto.



PO BOX 3040, PMS 427
DURADO, PR 00728
TEL. (787) 649-6200 | LOPEZBAEZ@ENZ0GROUPLLC.COM



HERNAN E. LOPEZ BAEZ
LIC. 11346

**BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9
STEEL POST - STEEL FLANGED CHANNEL
GENERAL NOTES**

FROM CUPEY TO SAN JUAN
MUNICIPALITY OF SAN JUAN

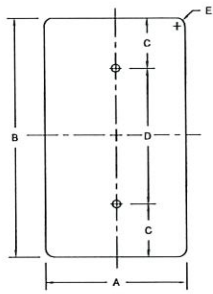
METROPOLITANA DE
AUTOBUSES



METROPOLITAN BUS AUTHORITY
EQU 106349
SAN JUAN, PR 00918-5349

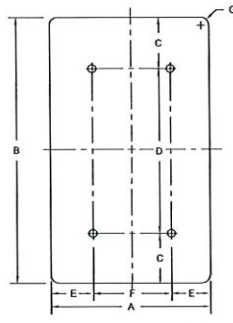
REVISION

DATE: JUNE 2022	DRAW BY:
CHECKED BY:	ABZ
BEV	SHEET NO.
DWG. TYPE:	82
TS-3.09	OF
	89



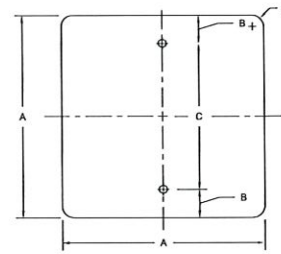
VERTICAL RECTANGLE

A	B	C	D	E
300	450	35	380	35
450	600	75	450	35
600	750	75	600	35
750	900	75	750	45



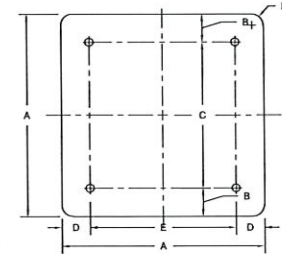
VERTICAL RECTANGLE

A	B	C	D	E	F	G
600	1200	150	900	150	600	55
1200	1500	150	1200	225	750	75



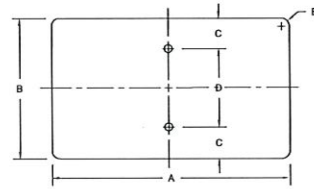
SQUARE

A	B	C	D
450	75	300	35
600	75	450	35
750	75	600	45



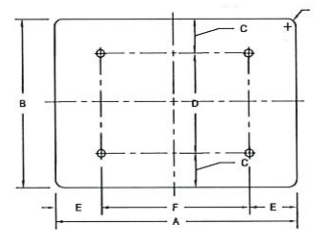
SQUARE

A	B	C	D	E	F
600	150	600	150	600	55
1200	150	900	225	750	75



HORIZONTAL RECTANGLE

A	B	C	D	E
525	375	35	305	35
600	300	70	230	35
600	450	75	300	35
750	375	70	305	35
750	600	75	450	35
900	300	70	230	35



HORIZONTAL RECTANGLE

A	B	C	D	E	F	G
900	600	75	450	150	600	35
1200	600	75	450	225	750	45
1200	900	150	600	225	750	55
1500	600	75	450	300	600	35
1500	900	300	600	600	900	55

Yo, Hernán E. López Baez, Ingeniero, Registro 18 54, certifico que esta información que contiene el dibujo es presentada como la más exacta y detallada que puedo proporcionar, de acuerdo a lo que me fue informado por el cliente. Este dibujo deberá ser usado con la autorización expresa del Registrante. Copias de este documento no podrán ser reproducidas ni distribuidas sin el consentimiento escrito del Registrante. Este documento es propiedad intelectual de EN-Z-O Engineering, P.S.C. y cualquier reproducción no autorizada sin el consentimiento escrito del Registrante, será sancionada de acuerdo a lo establecido en la Ley de Propiedad Intelectual de Puerto Rico.

EN-Z-O
engineering, psc.

PO Box 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOOGRPULLC.ORG



HERNÁN E. LOPEZ BAEZ, P.E. MEM.
LIC. 1854

**BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9**

STEEL POST - STEEL FLANGED CHANNEL
BLANK PLATE STANDARDS

FROM CUPEY TO SAN JUAN
MUNICIPALITY OF SAN JUAN

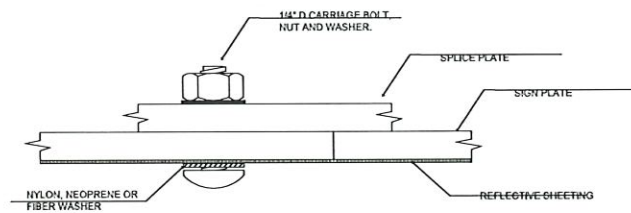
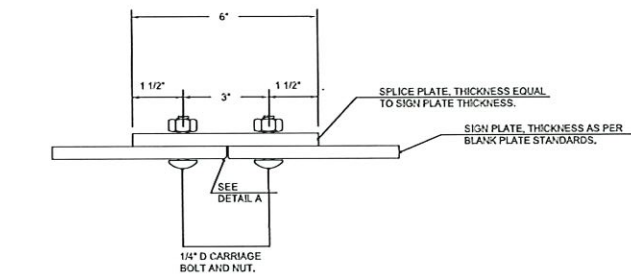
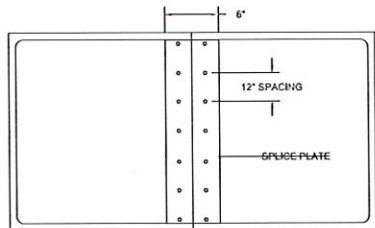
AUTODOMD
**METROPOLITANA DE
AUTOBUSES**



METROPOLITAN BUS AUTHORITY
BOX 155349
SAN JUAN, PR 00915-5349

REVISION

DATE:	CHECKED BY:	DRAWN BY:
JUNE 2022	BEV	ABZ
DWG. TYPE:	TS-3.10	SHEET NO. 83
		OF 89



DETAIL A

SIGN PLATE SPLICES

GENERAL NOTES:

1. NO SPLICES IN SIGN PLATES SHALL BE PERMITTED WHEN SIGN DIMENSIONS ARE 1200 (4') X 1200 (4') OR LESS.
2. THE CONTRACTOR SHALL ADJUST THE LENGTH OF CARRIAGE BOLT. THE BOLT SHALL PENETRATE THE ENTIRE THICKNESS OF THE NUT.

Yo autorizo al Liquidador y/o el Gerente Municipal de San Juan para que el personal que se le asigne para este fin presente ante el Jefe de Recursos Humanos de la Autoridad Metropolitana de Autobuses y/o el Jefe de Recursos Humanos de la Autoridad Metropolitana de Transportación Pública para que se le asigne personal para este fin. Asimismo, yo autorizo al personal que se le asigne para este fin para que presente ante el Jefe de Recursos Humanos de la Autoridad Metropolitana de Transportación Pública y/o el Gerente Municipal de San Juan para que se le asigne personal para este fin. Yo autorizo al personal que se le asigne para este fin para que presente ante el Jefe de Recursos Humanos de la Autoridad Metropolitana de Transportación Pública y/o el Gerente Municipal de San Juan para que se le asigne personal para este fin.

EN · Z · O.
engineering, psc.

PO Box 3040, PHB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZGROUPFLLC.ORG

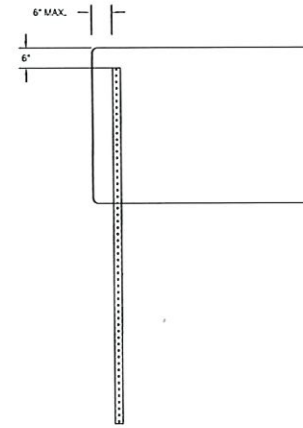
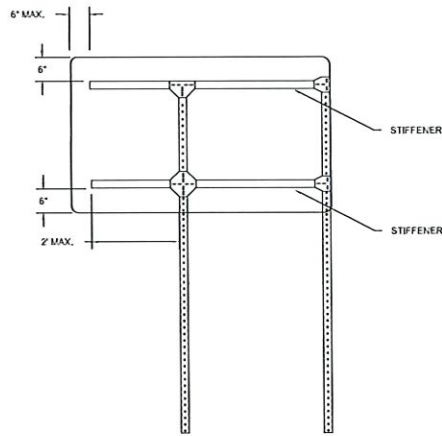
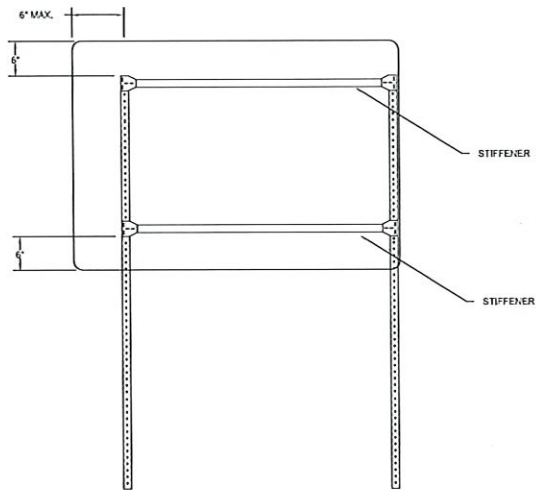
HERNÁN E. LOPEZ BAEZ, PE MEM
M.C. W-14

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9
 STEEL POST - STEEL FLANGED CHANNEL
 SIGN PANEL SPLICES
 FROM CUPEY TO SAN JUAN
 MUNICIPALITY OF SAN JUAN

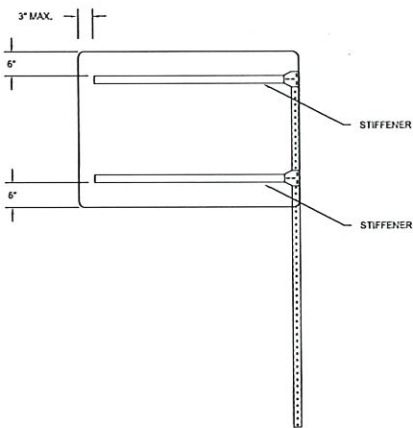
AUTORIZADO
METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
 BOX 19549
 SAN JUAN, PR 00919-5499

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-3.11	SHEET NO. 84 OF 89



TYPICAL POST LOCATION FOR H SUPPORT MOUNTING



TYPICAL POST LOCATION FOR CANTILEVER SUPPORT MOUNTING

GENERAL NOTES:

1. TO DETERMINE THE APPLICATION FOR CANTILEVER OR SUPPORT MOUNTING SEE MOUNTING ON SIDEWALK AREAS WITH OR WITHOUT PLANTING STRIP STANDARD DRAWINGS.

Yo, Hernán E. López Baez, Registro No. 1874, certifico que soy el proyectista que realizó el diseño y presento esta obra a los efectos de su aprobación. Yo declaro que esta obra es de mi autoría y que he cumplido con los requisitos establecidos en el Reglamento de Obras de Ingeniería y Construcción de la Autoridad Metropolitana de Autobuses de la Autoridad Metropolitana de Transportación Pública de San Juan. Firmado en su calidad de Ingeniero Civil y Registrado en la Oficina del Registrador de Obras de Ingeniería y Construcción de la Autoridad Metropolitana de Transportación Pública de San Juan, el día 21 de mayo de 2022, en la sede de la Autoridad Metropolitana de Transportación Pública de San Juan, a las 10:00 horas.

EN · Z · O.
engineering, psc.

PO BOX 3040, PMB 427
GURABO, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG



HERNÁN E. LOPEZ BAEZ, P.E. (ENM)
LIC. 14546

**BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9**

**STEEL POST - TYPICAL POST LOCATION FOR MOUNTING
ON SIDEWALK AREAS WITH OR WITHOUT PLANTING STRIP**

FROM CUPEY TO SAN JUAN
MUNICIPALITY OF SAN JUAN

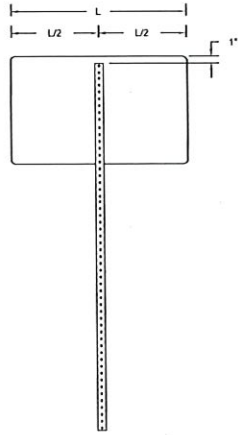
**METROPOLITANA DE
AUTOBUSES**



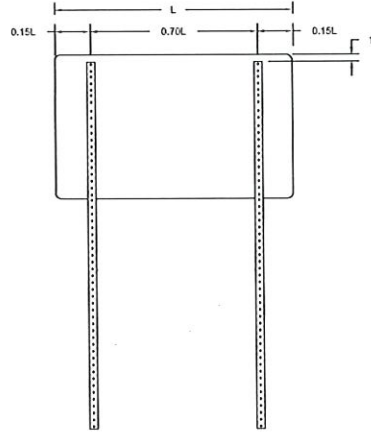
METROPOLITAN BUS AUTHORITY
BOX 150419
SAN JUAN, PR 00913-5349

REVISION

DATE: JUNE 2022	CHECKED BY: ABZ	DRAW BY: ABZ
DWG. TYPE: TS-3.13	SHEET NO. 86	OF 89



1 POST



2 POSTS

NOTE:

1. TO DETERMINE THE NUMBER OF POSTS, SEE NOTES ON STEEL FLANGED CHANNEL AND SQUARE STEEL POST.
2. STIFFENERS SHALL BE SQUARE POST, STEEL FLANGED CHANNEL OR ALTERNATE STIFFENER.
3. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST TO STIFFENERS CONNECTION.
4. MAXIMUM DEVIATION FROM VERTICAL FOR ANY COMPONENT, IN ANY DIRECTION, SHALL BE 1/8 INCH PER FOOT.
5. MAXIMUM DEVIATION FROM HORIZONTAL FOR ANY COMPONENT, IN ANY DIRECTION, SHALL BE 1/8 INCH PER FOOT.

El profesional de la Ingeniería Profesional, en el ejercicio de sus funciones, se obliga a su deber profesional de confidencialidad y a no divulgar ni revelar información de confidencialidad o privilegiada que le sea comunicada en el curso de su ejercicio profesional. Este deber de confidencialidad comprende también la información que le sea comunicada por terceros en el ejercicio de sus funciones. El profesional de la Ingeniería Profesional se obliga a su deber profesional de no divulgar ni revelar información de confidencialidad o privilegiada que le sea comunicada por terceros en el curso de su ejercicio profesional. Este deber de confidencialidad comprende también la información que le sea comunicada por terceros en el ejercicio de sus funciones. El profesional de la Ingeniería Profesional se obliga a su deber profesional de no divulgar ni revelar información de confidencialidad o privilegiada que le sea comunicada por terceros en el curso de su ejercicio profesional. Este deber de confidencialidad comprende también la información que le sea comunicada por terceros en el curso de su ejercicio profesional.

EN · Z · O
engineering, psc.

PO Box 3040, PMB 427
Guayama, PR 00976
TEL. (787) 649-6200 | LOPEZBAEZ@ENZORGROUP.LLC.ORG



HERNÁN E. LOPEZ BAEZ, PE MEM
LIC. 9394

**BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9
STEEL POST - TYPICAL POST LOCATION
FOR MOUNTING STANDARDS**

**FROM CUPEY TO SAN JUAN
MUNICIPALITY OF SAN JUAN**

AUTORIDAD
**METROPOLITANA DE
AUTOBUSES**



METROPOLITANA BUS AUTHORITY
BOX 156319
SAN JUAN, PR 00918-0319

REVISION

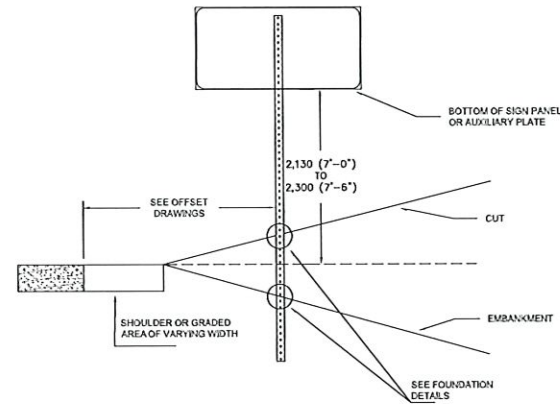
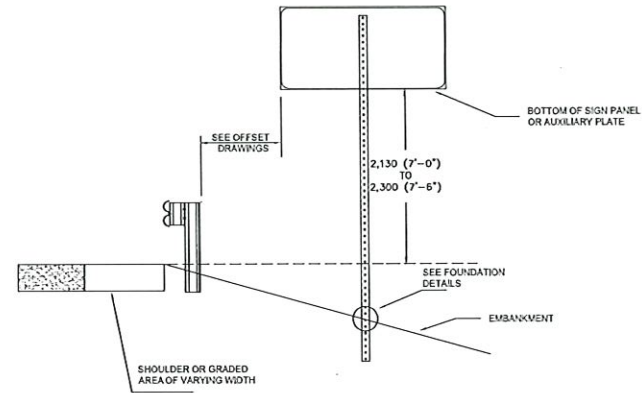
DATE: JUNE 2022	CHECKED BY: ABZ	DRAW BY: ABZ
DWG. TYPE: TS-3.14	SHEET NO. 87	OF 89

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INCREASING OR DECREASING THE LENGTH OF POST TO ACHIEVE THE MOUNTING HEIGHT ABOVE FINISH GRADE OF THE NEAREST LANE.
2. THE CONTRACTOR MAY USE STEEL FLANGED CHANNEL POST OR SQUARE STEEL POST.
3. FOUNDATION SHALL BE AS STEEL FLANGED CHANNEL AND SQUARE STEEL POST FOUNDATION DETAILS STANDARD DRAWINGS.
4. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST TO STIFFENER CONNECTION.
5. ALL TOP POSTS AND BASE POSTS SHALL BE CONTINUOUS IN LENGTH.
6. THE CONTRACTOR SHALL BE RESPONSIBLE TO DETERMINE THE NUMBER OF POSTS BASED UPON THE SIGN PANEL AREA, IN CONFORMANCE WITH THE FOLLOWING TABULATION:

NUMBER OF POSTS	MAXIMUM SIGN AREA (SQ. FEET)	MAXIMUM SIGN AREA (SQ. METER)
1	4	0.37
2	16	1.50
3	25	2.32
4	35	3.25

7. THE CONTRACTOR SHALL LOCATE POSTS AS PER TYPICAL POST LOCATION STANDARD DRAWING.
8. VERTICAL CLEARANCE TO BOTTOM OF LOWEST SIGN PANEL SHALL BE 2,130 (7'-0") TO 2,300 (7'-6") FROM THE FINISH GRADE OF THE NEAREST LANE.



Yo autorizo a Lopez Baez, Arquitectos, para que represente a la Autoridad Metropolitana de Autobuses en el proceso de licitación para la construcción de la infraestructura de señalización de parada de autobuses en la Ruta 9, desde el punto de partida hasta el punto de llegada, en el Municipio de San Juan, Puerto Rico. Este documento es una copia de un documento original que forma parte de un expediente de obra y no debe ser utilizado para fines ajenos a los que fueron destinados. Cualquier uso no autorizado de este documento será considerado una infracción de las leyes de derechos de autor y será perseguido legalmente. Este documento es propiedad de la Autoridad Metropolitana de Autobuses y no debe ser distribuido, copiado, reproducido o utilizado para fines ajenos a los que fueron destinados. Este documento es una copia de un documento original que forma parte de un expediente de obra y no debe ser utilizado para fines ajenos a los que fueron destinados. Cualquier uso no autorizado de este documento será considerado una infracción de las leyes de derechos de autor y será perseguido legalmente. Este documento es propiedad de la Autoridad Metropolitana de Autobuses y no debe ser distribuido, copiado, reproducido o utilizado para fines ajenos a los que fueron destinados.

EN · Z · O.
Engineering, psc.

PO Box 3040, PMB 427
GURABO, PR 00778
TEL: (787) 649-6200 | LOPEZBAEZ@ENZOROUPLLC.ORG



HERNÁN E. LOPEZBAEZ, P.E. NEM
LIC. 10114

**BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9**

STEEL POST - TYPICAL POST LOCATION
FOR GRASS MOUNTING STANDARDS

FROM CUPEY TO SAN JUAN
MUNICIPALITY OF SAN JUAN

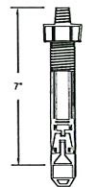
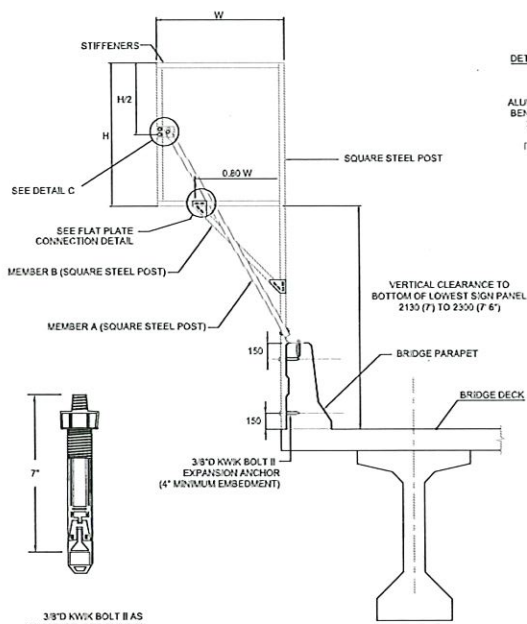
AUTORIZADO
**METROPOLITANA DE
AUTOBUSES**



METROPOLITAN BUS AUTHORITY
EQU 156319
SAN JUAN, PR 00913-5349

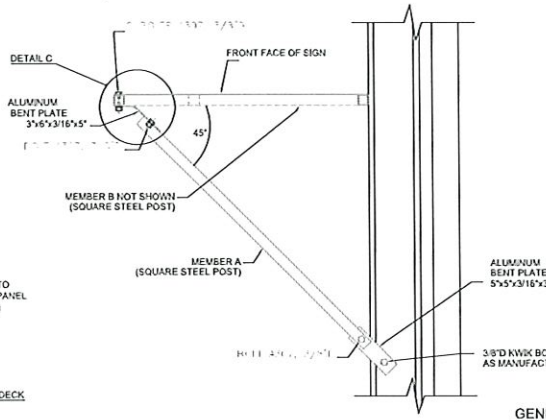
REVISION

DATE:	DRAWN BY:
JUNE 2022	ABZ
CHECKED BY:	BEV
DWG. TYPE:	TS-3.15
SHEET NO.:	88
OF	99

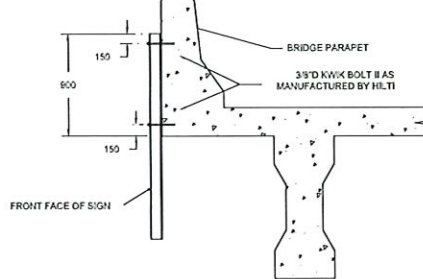


ANCHOR
3/8\"/>

ELEVATION



PLAN

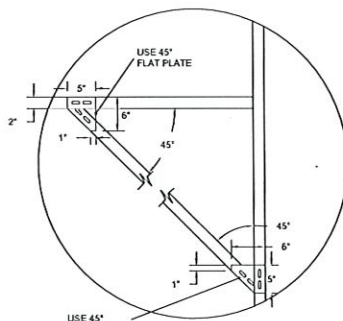


OVERHEAD MOUNTING

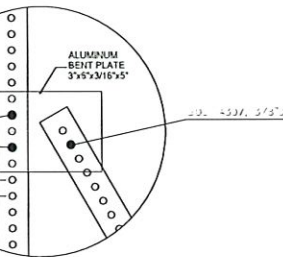
USE ONE STEEL FLANGED CHANNEL POST OR ONE SQUARE STEEL POST FOR SIGNS W12-2 600 (2) X 600 (2), 750 (2-4) X 750 (2-6), AND 600 (3) X 600 (3).
USE TWO STEEL FLANGED CHANNEL POST OR TWO SQUARE STEEL POST FOR SIGNS W12-2 1200 (4) X 1200 (4) AND 1500 (5) X 1500 (5) OR GREATER, OR ANY OTHER SIGNS INDICATED IN THE CONSTRUCTION PLANS.

GENERAL NOTES:

- FOR CANTILEVER SUPPORT MOUNTING ONLY SQUARE STEEL SHALL BE USED.
- CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS WHO WISH TO INCLUDE THEIR PRODUCTS INTO THE APPROVED LISTING OF ANCHORS MUST SUBMIT THE FOLLOWING INFORMATION FOR CONSIDERATION BY THE AUTHORITY: FULL DESCRIPTION AND DRAWINGS OF THE ANCHOR INCLUDING DIMENSION OF ALL COMPONENTS AND COMPLETE MATERIAL DESCRIPTION, GALVANIZING AND OTHER PERTINENT INFORMATION.
KW/K BOLT SHALL BE ZINC PLATED IN ACCORDANCE WITH ASTM B533, TYPE II FE/ZN 5.
- THE CONTRACTOR SHALL FOLLOW HILTI INSTRUCTIONS FOR 3/8\"/>



FLAT PLATE CONNECTION DETAIL



DETAIL C

CANTILEVER SUPPORT MOUNTING

- FOR SIGN PANELS WITH A SIGN PANEL AREA EQUAL OR LESS THAN 18 SQUARE FEET AND WIDTH EQUAL OR LESS THAN 1,200 (48”).
- FOR OCTAGONAL, DIAMOND, TOURISTIC AND CIRCULAR SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH EQUAL OR LESS THAN 600 (24”).

**BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 9**

**STEEL POST - TYPICAL POST LOCATION
FOR MOUNTING STANDARDS**

FROM CUPEY TO SAN JUAN
MUNICIPALITY OF SAN JUAN

EN - Z - O.
engineering, psc.

PO BOX 3040, PHB 427
GUAYAMA, PR 00978
TEL. (787) 649-6200 | LOPEZBAEZ@ENZORPFLC.ORG



HERNAN E. LOPEZBAEZ, PE MEM
LIC. 11541E

AUTORIZADO
**METROPOLITANA DE
AUTOBUSES**



METROPOLITAN BUS AUTHORITY
BOX 155349
SAN JUAN, PR 00913-5349

REVISION	
DATE: JUNE 2022	CHECKED BY: BEV
	DRAW BY: ABZ
	DWG. TYPE: TS-3.16
	SHEET NO. 69
	OF 69

Yo, Hernan E. Lopez Baez, Registrado No. 11541E, certificado como arquitecto de profesión y proyectista profesional y un miembro de la Corporación Profesional de Arquitectos de Puerto Rico, por el presente certifico que las especificaciones y planos de los estándares de los Reglamentos de Carreteras y las disposiciones administrativas de los Reglamentos y Códigos de Construcción de la Municipalidad de San Juan, y como Registrado y Excmo. Ingeniero de Edificación, Profesionista del Estado, Hecho por el presente declaro haber leído y haberme comprometido a cumplir con las especificaciones de los planos y proyectos de construcción de los estándares de los Reglamentos de Carreteras y las disposiciones administrativas de los Reglamentos y Códigos de Construcción de la Municipalidad de San Juan, y como Registrado y Excmo. Ingeniero de Edificación, Profesionista del Estado, Hecho por el presente declaro haber leído y haberme comprometido a cumplir con las especificaciones de los planos y proyectos de construcción de los estándares de los Reglamentos de Carreteras y las disposiciones administrativas de los Reglamentos y Códigos de Construcción de la Municipalidad de San Juan.