AUTORIDAD
METROPOLITANA DE
AUTOBUSES

SUBASTA FORMAL NÚM. 45-2223-003

REMODELACIÓN Y ROTULACIÓN DE PARADAS

PLANOS RUTA 5

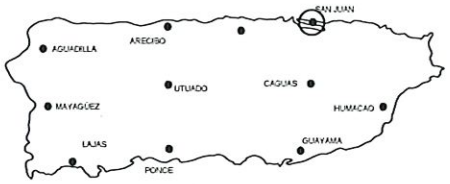
37 Ave. De Diego, Urb. San Francisco, Río Piedras / Box 195349, San Juan, PR 00919-5349
Teléfono 787-294-0500 / Fax 787-751-0527

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOPS

SCHEDULE OF DRAWING

SHEET NO.	DRAWING NO.	DESCRIPTION
1	TI-1	TITLE SHEET
2	GR-1.01	INDEX SHEET: ROUTE 5 | BUS STOPS
3	MOT-1.01	MAINTENACE OF TRAFFIC: NOTES AND DETAILS
4	MOT-1.02	MAINTENACE OF TRAFFIC DETAILS
5	MOT-1.03	MAINTENACE OF TRAFFIC DETAILS
6	MOT-1.04	MAINTENACE OF TRAFFIC DETAILS
ROUTE 5 | FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL		
7 - 38	TS-1.01 TO TS-1.32: ROUTE 5 | BUS STOPS	
ROUTE 5 | FROM SAN JUAN TERMINAL TO ITURREGUI TERMINAL		
39 - 72	TS-2.01 TO TS-2.34: ROUTE 5 | BUS STOPS	
73 - 88	TS-3.01 TO TS-3.16: TRAFFIC SIGNS DETAILS	

MUNICIPALITIES OF SAN JUAN AND CAROLINA
LOCALIZACION 1:20,000



AUTORIDAD
METROPOLITANA DE
AUTOBUSES

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
BALDORIOTY DE CASTRO AVE. (HIGHWAY PR-26) - MARGINAL ST.
HIGHWAY PR-37, PR-25, DEL TREN STREET & AIRPORT AVE.
MUNICIPALITIES OF CAROLINA & 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
INGENIERO LICENCIADO
LIC. 18154
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LIC. 18154PE

Yo, Hernan E. Lopez Baez, Ingeniero licencia 18154, certifico que soy el profesional que proyectó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes en las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia yo soy por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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OWNER:

DRAWING TYPE: TI-1

SHEET: 1 OF 88

ROUTE 5 | BUS STOPS

ROUTE 5: FROM SAN JUAN TO ITURREGUI TERMINAL

NUMBER	SHEET	BUS STOP	BUS STOP LOCATION	MUNICIPALITY
			SAN JUAN TERMINAL	
7	TS-1.01	9	ONLY LANE JUAN PONCE DE LEÓN AVE. AFTER OLIMPO ST.	SAN JUAN
8	TS-1.02	10	ONLY LANE JUAN PONCE DE LEÓN AVE. BEFORE OPPOSITE SIDE OF MADRID ST.	SAN JUAN
9	TS-1.03	11	ONLY LANE JUAN PONCE DE LEÓN AVE. BEFORE OPPOSITE SIDE OF WAYMOUTH ST.	SAN JUAN
10	TS-1.04	12	ONLY LANE JUAN PONCE DE LEÓN AVE. BEFORE CERRA ST.	SAN JUAN
11	TS-1.05	13	ONLY LANE JUAN PONCE DE LEÓN AVE. BEFORE OPPOSITE SIDE OF RONCABADO ST.	SAN JUAN
12	TS-1.06	14	ONLY LANE JUAN PONCE DE LEÓN AVE. BEFORE CONDADO ST.	SAN JUAN
13	TS-1.07	15	ONLY LANE JUAN PONCE DE LEÓN AVE. OPPOSITE SIDE OF VILLAMIL ST.	SAN JUAN
14	TS-1.08	16	ONLY LANE JUAN PONCE DE LEÓN AVE. AFTER OPPOSITE SIDE OF DUFFAUT ST.	SAN JUAN
15	TS-1.09	17	ONLY LANE JUAN PONCE DE LEÓN AVE. BEFORE LLOVERAS ST.	SAN JUAN
16	TS-1.10	18	ONLY LANE JUAN PONCE DE LEÓN AVE. BEFORE OPPOSITE SIDE OF DE DIEGO AVE.	SAN JUAN
17	TS-1.11	22	LOÍZA ST. INT. DEL PARQUE ST.	SAN JUAN
18	TS-1.12	23	LOÍZA ST. INT. TAFT ST.	SAN JUAN
19	TS-1.13	24	LOÍZA ST. BEFORE JEFFERSON ST.	SAN JUAN
20	TS-1.14	25	LOÍZA ST. BEFORE APONTE ST.	SAN JUAN
21	TS-1.15	26	LOÍZA ST. BEFORE MARÍA MOCZO ST.	SAN JUAN
22	TS-1.16	27	LOÍZA ST. INT. SANTA CECILIA ST.	SAN JUAN
23	TS-1.17	28	LOÍZA ST. AFTER OPPOSITE SIDE OF RAMPLA DEL ALMIRANTE ST.	SAN JUAN
24	TS-1.18	29	LOÍZA ST. BEFORE PROVIDENCIA ST.	SAN JUAN
25	TS-1.19	47	LAGUNA AVENUE BEFORE OPPOSITE SIDE OF ACUARIO ST.	CAROLINA
26	TS-1.20	48	LAGUNA AVENUE BEFORE OPPOSITE SIDE OF LUNA ST.	CAROLINA
27	TS-1.21	49	LUNA ST. INT. ANDRÓMEDA ST.	CAROLINA
28	TS-1.22	50	LUNA ST. INT. ASTRO ST.	CAROLINA
29	TS-1.23	51	LUNA ST. BEFORE TAURO ST.	CAROLINA
30	TS-1.24	52	LUNA ST. BEFORE SOL ST.	CAROLINA
31	TS-1.25	53	SOL ST. OPPOSITE SIDE OF SAGITARIO ST.	CAROLINA
32	TS-1.26	54	BALDORIOTY DE CASTRO MARGINAL FRONT METHODIST CHURCH	CAROLINA
33	TS-1.27	55	BALDORIOTY DE CASTRO MARGINAL INT. JOAQUINA ST.	CAROLINA
34	TS-1.28	56	BALDORIOTY DE CASTRO MARGINAL FRONT ENTERPRISE	CAROLINA
35	TS-1.29	57	BALDORIOTY DE CASTRO MARGINAL FRONT INTERSUITE CONDOMINIUM	CAROLINA
36	TS-1.30	58	BALDORIOTY DE CASTRO MARGINAL BEFORE SANTANA AVENUE	CAROLINA
37	TS-1.31	59	BALDORIOTY DE CASTRO MARGINAL FRONT FUENTE AGUA VIVA CHURCH	CAROLINA
38	TS-1.32	60	BALDORIOTY DE CASTRO MARGINAL BEFORE ITURREGUI AVENUE	CAROLINA
			ITURREGUI STATION	

ROUTE 5: FROM ITURREGUI TERMINAL TO SAN JUAN

NUMBER	SHEET	BUS STOP	BUS STOP LOCATION	MUNICIPALITY
			ITURREGUI STATION	
39	TS-2.01	1	BALDORIOTY DE CASTRO MARGINAL AFTER ITURREGUI AVENUE	CAROLINA
40	TS-2.02	2	BALDORIOTY DE CASTRO MARGINAL OPPOSITE SIDE OF FUENTE AGUA VIVA CHURCH	CAROLINA
41	TS-2.03	3	BALDORIOTY DE CASTRO MARGINAL AFTER SANTANA AVENUE	CAROLINA
42	TS-2.04	4	BALDORIOTY DE CASTRO MARGINAL OPPOSITE SIDE OF INTERSUITE CONDOMINIUM	CAROLINA
43	TS-2.05	5	BALDORIOTY DE CASTRO MARGINAL OPPOSITE SIDE OF JOAQUINA ST.	CAROLINA
44	TS-2.06	6	SOL ST. BEFORE PISCIS ST.	CAROLINA
45	TS-2.07	7	LUNA ST. AFTER SOL ST.	CAROLINA
46	TS-2.08	8	LUNA ST. INT. PEGASO ST.	CAROLINA
47	TS-2.09	9	LUNA ST. BEFORE ARIES ST.	CAROLINA
48	TS-2.10	10	LUNA ST. INT. ASTRAL ST.	CAROLINA
49	TS-2.11	11	LUNA ST. INT. COSMOS ST.	CAROLINA
50	TS-2.12	12	LAGUNA AVENUE BEFORE ACUARIO ST.	CAROLINA
51	TS-2.13	13	COSMOS ST. BEFORE LUNA ST.	CAROLINA
52	TS-2.14	14	ESTRELLA DEL NORTE ST. INT. ANDRÓMEDA ST.	CAROLINA
53	TS-2.15	15	CRUZ DEL SUR ST. BEFORE ASTRAL ST.	CAROLINA
54	TS-2.16	16	CRUZ DEL SUR ST. INT. LOS ÁNGELES ST.	CAROLINA
55	TS-2.17	33	LOÍZA ST. AFTER LAS AMÉRICAS AVENUE	SAN JUAN
56	TS-2.18	34	LOÍZA ST. AFTER RAMPA DEL ALMIRANTE ST.	SAN JUAN
57	TS-2.19	35	LOÍZA ST. BEFORE OPPOSITE SIDE OF MANUEL CORCHADO ST.	SAN JUAN
58	TS-2.20	36	LOÍZA ST. AFTER CORDERO ST.	SAN JUAN
59	TS-2.21	37	LOÍZA ST. INT. FAMILY COURT ST.	SAN JUAN
60	TS-2.22	38	LOÍZA ST. BEFORE F. KING'S COURT ST	SAN JUAN
61	TS-2.23	39	LOÍZA ST. BEFORE DE DIEGO AVE.	SAN JUAN
62	TS-2.24	43	JUAN PONCE DE LEÓN AVENUE BEFORE OPPOSITE SIDE OF LLOVERAS ST.	SAN JUAN
63	TS-2.25	44	JUAN PONCE DE LEÓN AVENUE BEFORE OPPOSITE SIDE OF HIPÓDROMO ST.	SAN JUAN
64	TS-2.26	45	JUAN PONCE DE LEÓN AVENUE BEFORE DEFFAUT ST.	SAN JUAN
65	TS-2.27	46	JUAN PONCE DE LEÓN AVENUE BEFORE LABRA ST.	SAN JUAN
66	TS-2.28	47	JUAN PONCE DE LEÓN AVENUE BEFORE JESÚS TIZOL ST.	SAN JUAN
67	TS-2.29	48	JUAN PONCE DE LEÓN AVENUE INT RUCABADO ST.	SAN JUAN
68	TS-2.30	49	JUAN PONCE DE LEÓN AVENUE INT. MONSERRATE ST.	SAN JUAN
69	TS-2.31	50	JUAN PONCE DE LEÓN AVENUE BEFORE HOARE ST.	SAN JUAN
70	TS-2.32	51	JUAN PONCE DE LEÓN AVENUE BEFORE TRIGO ST.	SAN JUAN
71	TS-2.33	52	JUAN PONCE DE LEÓN AVENUE BEFORE ENSENADA ST.	SAN JUAN
72	TS-2.34	53	JUAN PONCE DE LEÓN AVENUE OPPOSITE SIDE OF OLIMPO ST.	SAN JUAN
			SAN JUAN TERMINAL	

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BUS STOP SIGNAGE PROJECT - PHASE 1
INDEX SHEET: ROUTE 5 | BUS STOPS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITIES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION
DATE: JUNE 2022
CHECKED BY: BEV / DRAW BY: ABZ
DWG. TYPE: GR-1.01 / SHEET NO. 2 OF 88

ROUTE 5 | 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 NUMBER 639 - "MAINTENANCE AND PROTECTION OF TRAFFIC" OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2005 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 IS ISSUED OR WITHOUT DIRECT CONSENT FROM THE ENGINEER.

9. THE CONTRACTOR SHALL FURNISH TEMPORARY TRAFFIC CONTROL DEVICES THAT MEET NCHRP 350 CRITERIA FOR THE APPLICABLE CRASHWORTHINESS STANDARD.

10. 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.

11. 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 MOTORING 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.

12. THE CONTRACTOR SHALL MAINTAIN ACCESS AT ALL TIMES TO ADJACENT PROPERTIES DURING CONSTRUCTION. THIS WORK WILL REQUIRE COORDINATION WITH BUSINESSESS 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.

13. TEMPORARY CONCRETE BARRIER SHOULD HAVE AN OFF-SET END SECTION AS APPROVED BY THE ENGINEER.

14. NO EXCAVATION AND/OR PAVEMENT DROP-OFF SHAL 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 PRMBA FROM COVADONGA TERMINAL TO ITURREGUI TERMINAL, INCLUDING BALDORIOTY DE CASTRO AVE. (HIGHWAY PR-26) - MARGINAL ST., HIGHWAY PR-37, PR-25, DEL TREN STREET AND AIRPORT AVE. IN THE MUNICIPALITIES OF CAROLINA AND SAN JUAN. THE FOLLOWING CONSTRUCTION SCHEDULE AND BASIC SAFETY PRINCIPLES 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 RAMPS THAT REQUIRE A PARCIAL CLOSURE DURING THE PAVEMENT AND BRIDGE DECK REHABILITATION.

TRAFFIC FLOW:

1. THE TRAFFIC FLOW WILL BE FLOWING 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 TILL 4:30 AM. ALL TRAVELED LANES SHALL BE OPENED TO THE TRAFFIC DURING NON-WORKING HOUR.

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 9:30 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 PRMBA, SHALL BE COORDINATE WITH THE PRMBA 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 CODE	BACKGROUND	LEGEND/BORDER
W21-4, G20-2(a), W20-7A, W20-8	FLUORESCENT ORANGE	NON REFLECTIVE BLACK
R1-1	REFLECTIVE RED	REFLECTIVE WHITE

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
MAINTENACE OF TRAFFIC: NOTES AND DETAILS

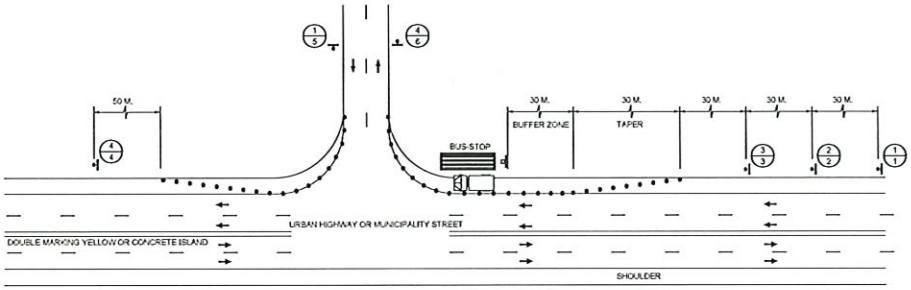
FROM COVADONGA TERMINAL TO ITURREGUI TERMINAL
MUNICIPALITIES OF SAN JUAN AND CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

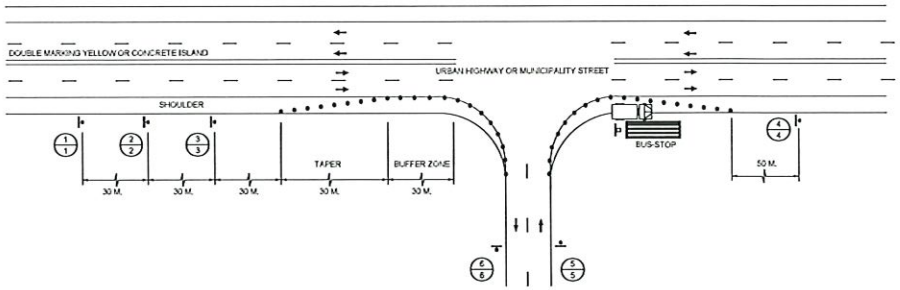
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: MOT-1.01	SHEET NO. 3 OF 88

ROUTE 5 | BUS STOPS

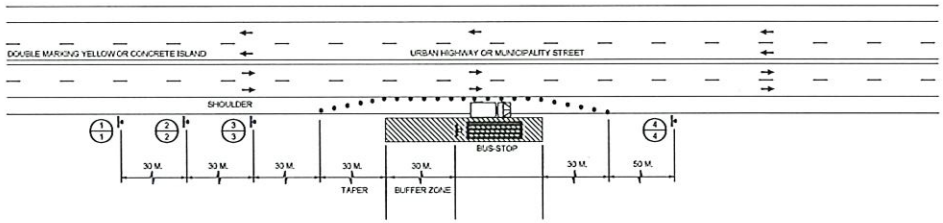


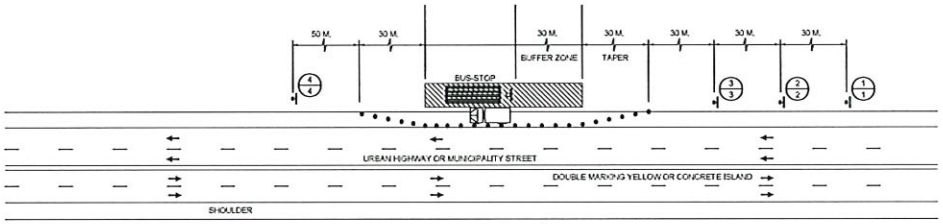
DETAIL - A

DETAIL - B



DETAIL - D





DETAIL - C

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 MPT 1, PRHTA STANDARD DRAWINGS
- WORKING TRUCK

Yo, Hernan E. Lopez Baez, ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También, certifico que estimo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
MAINTENACE OF TRAFFIC DETAILS

FROM COVADONGA TERMINAL TO ITURREGUI TERMINAL
MUNICIPALITIES OF SAN JUAN AND CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

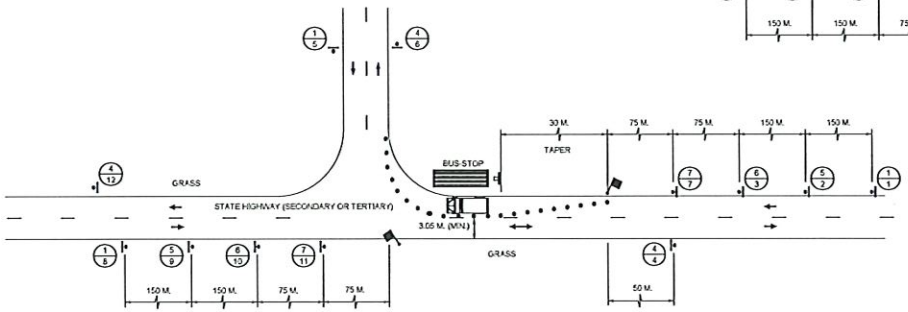
METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAWN BY: ABZ
DWG. TYPE: MOT-1.02	SHEET NO. 4 OF 88

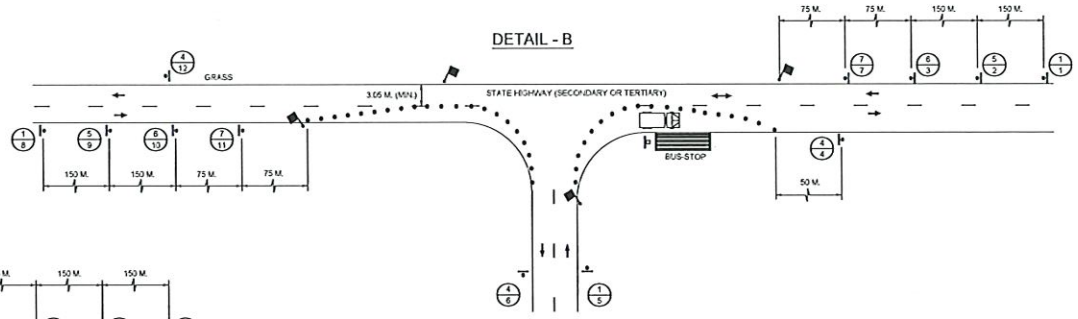
ROUTE 5 | BUS STOPS

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 MPT 1, FHWA STANDARD DRAWINGS
- WORKING TRUCK
- FLAG PERSON WITH RADIO COMMUNICATION SYSTEM SEE MUTCD SECTION 6E.07: FLAGGER PROCEDURES

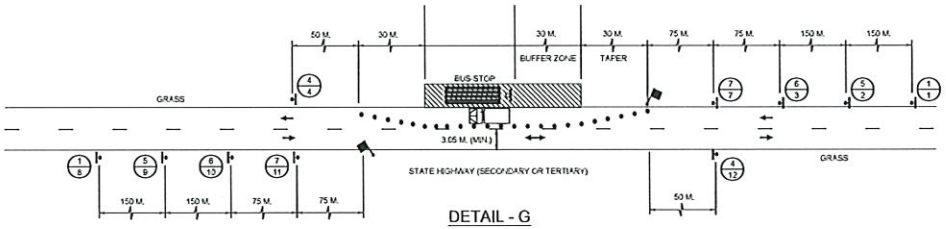


DETAIL - E



DETAIL - B

DETAIL - F



DETAIL - G

Yo, Hernan E. Lopez Baez, ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones compañeras. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia grave por mi, me expongo a amplia culpa, y por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
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HERNAN E. LOPEZ BAEZ, PE MEV
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
MAINTENACE OF TRAFFIC DETAILS

FROM COVADONGA TERMINAL TO ITURREGUI TERMINAL
MUNICIPALITIES OF SAN JUAN AND CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

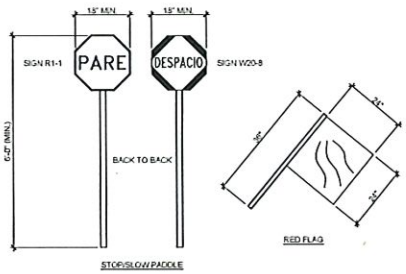
METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: MOT-1.03	SHEET NO. 5 OF 88

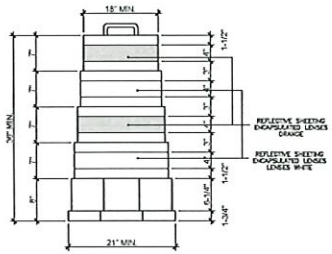
ROUTE 5 | BUS STOPS

TEMPORARY SIGN DATA

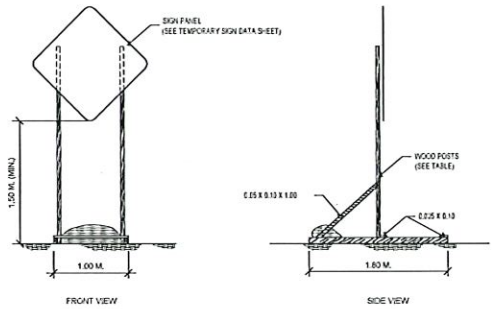
CODE NUMBER	LOCATION NUMBER	SIGN CODE	LEGEND	SIZE OF SIGN PANELS	OVERHEAD STRUCTURE TYPE	REFERENCE MANUAL	TOTAL ITEM
1	1, 5	W21-4	TRABAJO EN CARRETERA ADELANTE	36" X 36"	N/A	SEE MUTCD 2009 EDITION	1
2	2	W21-4	TRABAJO EN CARRETERA 80 M.	36" x 36"	N/A	SEE MUTCD 2009 EDITION	1
3	3	W21-4	TRABAJO EN CARRETERA 30 M.	36" x 36"	N/A	SEE MUTCD 2009 EDITION	1
4	4, 6	G20-2(a)	TERMINA TRABAJO EN CARRETERA	36" x 24"	N/A	SEE MUTCD 2009 EDITION	2
5	2, 9	W21-4	TRABAJO EN CARRETERA 300 M.	36" x 36"	N/A	SEE MUTCD 2009 EDITION	2
6	3, 10	W21-4	TRABAJO EN CARRETERA 150 M.	36" x 36"	N/A	SEE MUTCD 2009 EDITION	2
7	7, 11	W20-7A		30" x 30"	N/A	SEE MUTCD 2009 EDITION	1
8	STOP/SLOW PADDLE	R1-1 W20-8	PARE • DESPACIO BACK TO BACK	18" x 18"	N/A	LIGHT WEIGHT PADDLE	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

WOOD POST SIZES		MAXIMUM SIGN PANEL AREA (SQUARE METERS)	
MT. X MT.	IN. X IN.	1 POST	2 POSTS
0.10 X 0.10	4 X 4	1.00	2.00
0.10 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, Hernan E. López Báez, Ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones correspondientes. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier deficiencia leve o Multicausal de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
MAINTENACE OF TRAFFIC DETAILS

FROM COVADONGA TERMINAL TO ITURREGUI TERMINAL
MUNICIPALITIES OF SAN JUAN AND CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAWN BY: ABZ
DWG. TYPE: MOT-1.04	SHEET NO. 6 OF 88

ROUTE 5 | BUS STOP #9

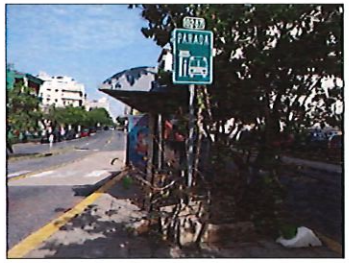
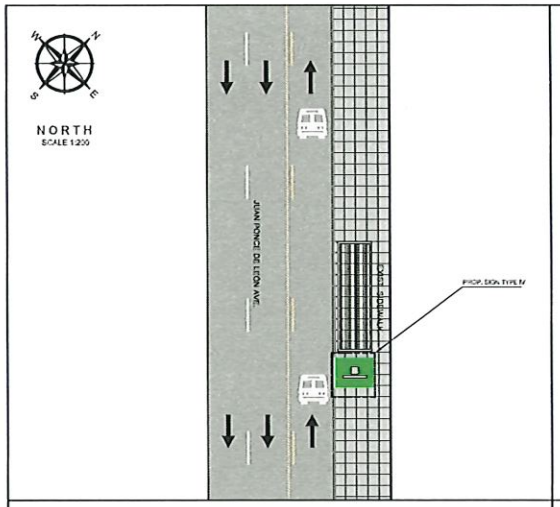


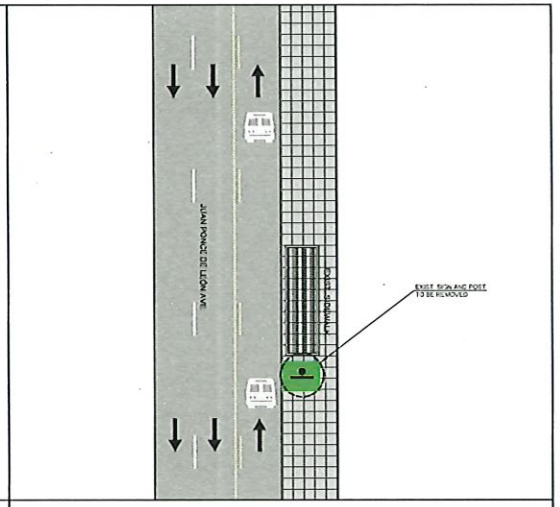
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

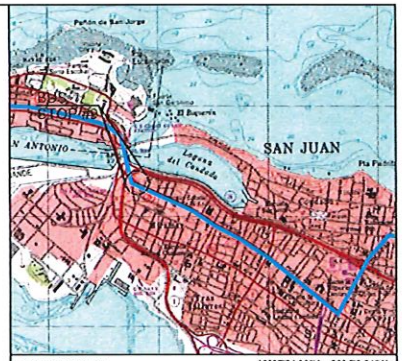


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#9



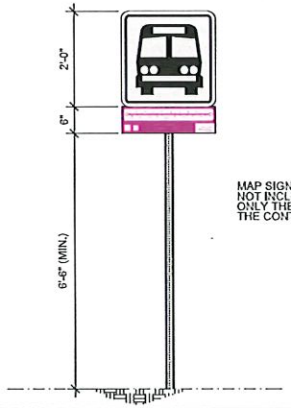
EXIST. CONDITIONS - ROUTE 5 | B.S.#9

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°27'24.99"N , 66° 5'8.84"W

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



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
- PRIMA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITS 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL REMOVE THE EXISTING TREE & 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 0.60 M.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18161, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones, y que he leído, formado, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de la Agencia, Junta Reglamentadora o Corporación Pública con jurisdicción. Reconozco que cualquier violación falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados o por otra persona con mi conocimiento, me hacen responsable de cualquier acción, liabilidad y daños incurridos por la OGPe.

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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. #18161

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #9

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. AFTER OLIMPO ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

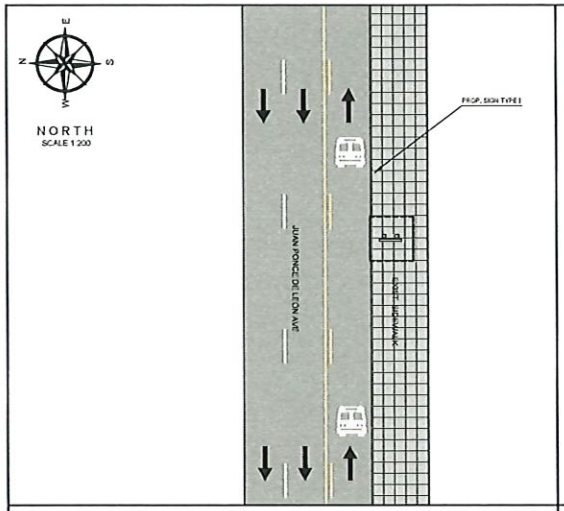
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.01	SHEET NO. 7 OF 88

ROUTE 5 | BUS STOP #10

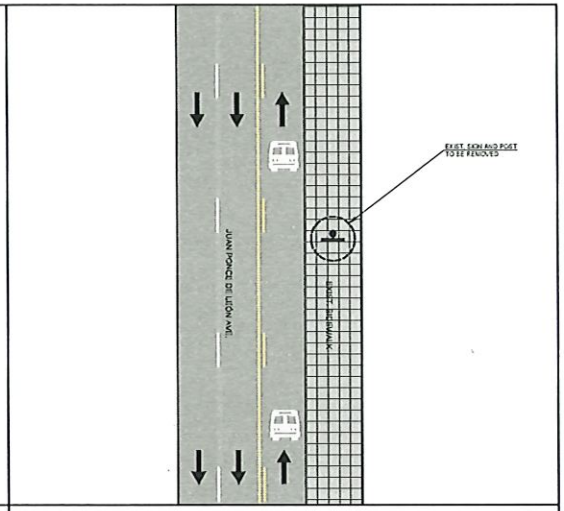
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

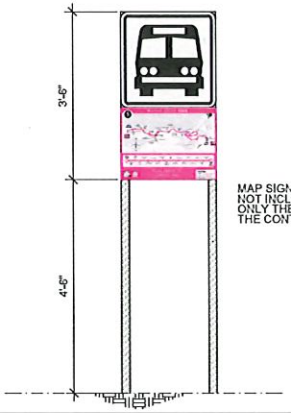


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#10



EXIST. CONDITIONS - ROUTE 5 | B.S.#10

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE I

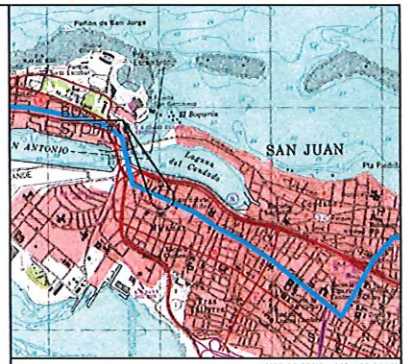
NOT TO SCALE

LEGEND

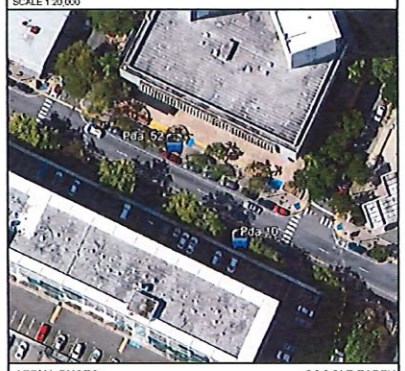
- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PMD OF THE MUNICIPALITY OF SAN JUAN. ABOUT THE SAME TILE TO INSTALL, BUT THREE TILES (3). 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 0.60 M.



LOCATION PLAN
SCALE 1:20,000
18°27'20.83"N , 66° 4'59.85"W



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

Yo Hernan E. Lopez Baez, Ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que estando que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Renuncio que cualquier deficiencia falta o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacer responsable de cualquier acción judicial y disciplinaria por la ley.

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INGENIERO
LIC. 18154
PUERTO RICO

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #10

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. BEFORE
OPPOSITE SIDE OF MADRID ST. MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

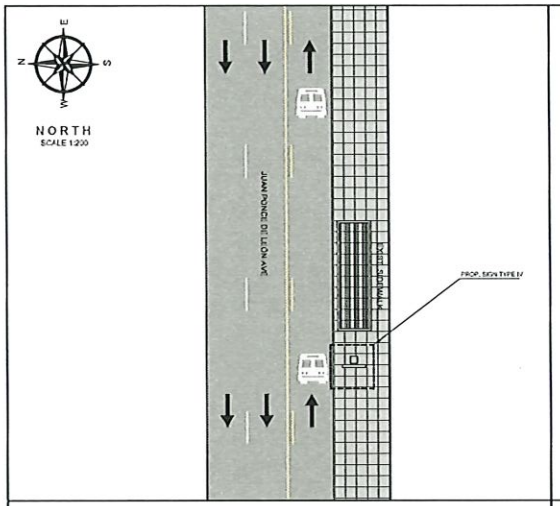
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.02	SHEET NO.: 8 OF 88

ROUTE 5 | BUS STOP #11

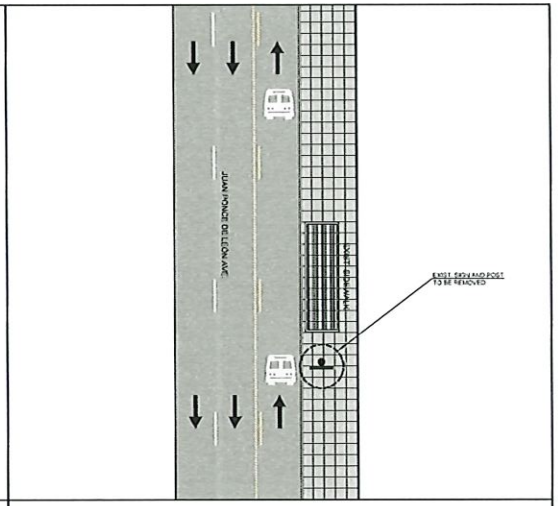
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

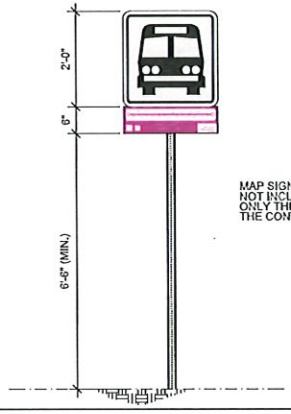


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#11



EXIST. CONDITIONS - ROUTE 5 | B.S.#11

2.5 0 5 15
SCALE 1:200



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
- PRIMA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
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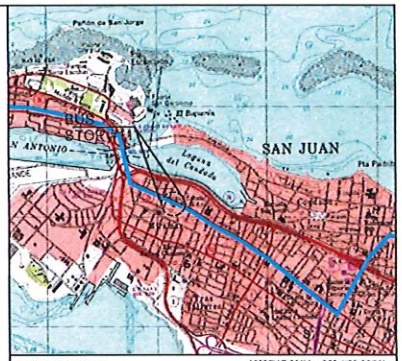
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED BOX IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PRO OF THE MUNICIPALITY OF SAN JUAN ABOUT THE SAME TILE TO INSTALL. BUS WHEEL TILES (5), 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 0.60 M.



LOCATION PLAN
SCALE 1:20,000
18°27'17.69"N , 66° 4'53.02"W

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

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-34, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones, completo en todo. También certifico que el diseño, así como diseñado y especificado, cumple con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier incumplimiento o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados o por otra persona con mi consentimiento, me hace responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18-34PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #11

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. BEFORE OPPOSITE SIDE OF WAYMOUTH ST. MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

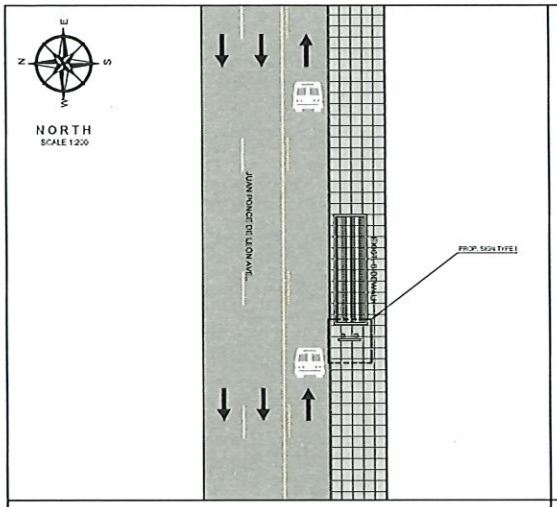
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.03	SHEET NO. 9 OF 88

ROUTE 5 | BUS STOP #12

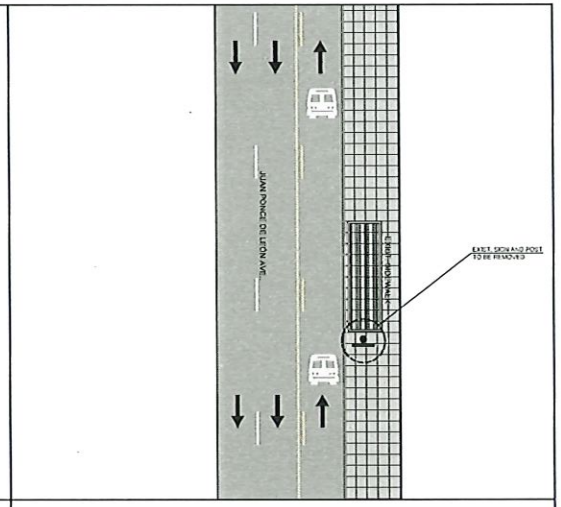
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

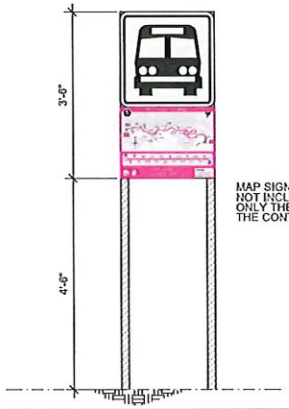


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#12



EXIST. CONDITIONS - ROUTE 5 | B.S.#12

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE I

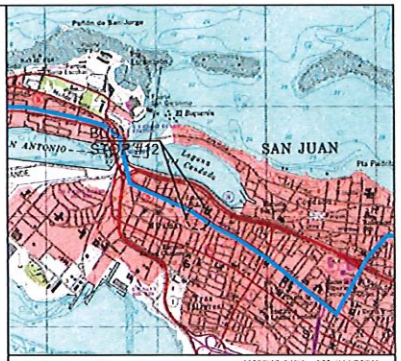
NOT TO SCALE

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 EXCAVATION, DEMOLITION AND PERMITS 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE FRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THIS 1'-0" BEHIND THE EXISTING LOCATION. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PAD OF THE MUNICIPALITY OF SAN JUAN. ABOUT THE SAME TIME TO INSTALL BUS TYPE "B.S.2", REFER TO P-1010.01.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.61 M.



LOCATION PLAN
SCALE 1:20,000

18°27'12.81"N , 66° 4'44.76"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-34, certifico que soy el profesional que corresponde, diseñé y preparé estos planos y las especificaciones completas aquí. También certifico que el diseño aquí ofrecido y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier inobservancia o falsificación de los hechos que se haya producido por desconocimiento o por negligencia que me por ello, me agrava a empleados o a cualquier persona con el consentimiento, me hacer responsable de cualquier acción judicial y civil frente por la OGPe.

ENZO Engineering, psc.
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Guaraso, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 18-34PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #12

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. BEFORE CERRA ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

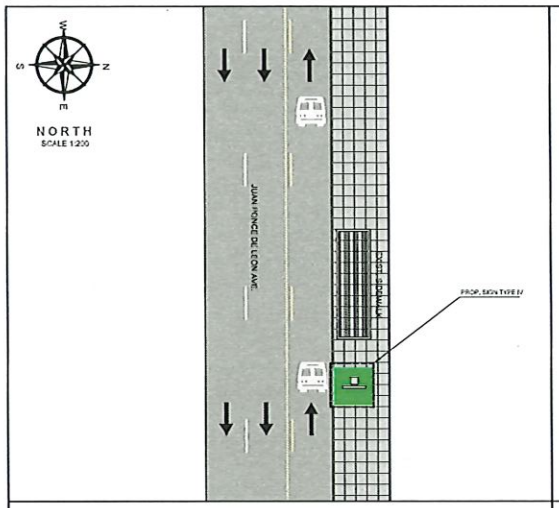
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.04	SHEET NO. 10 OF 88

ROUTE 5 | BUS STOP #13

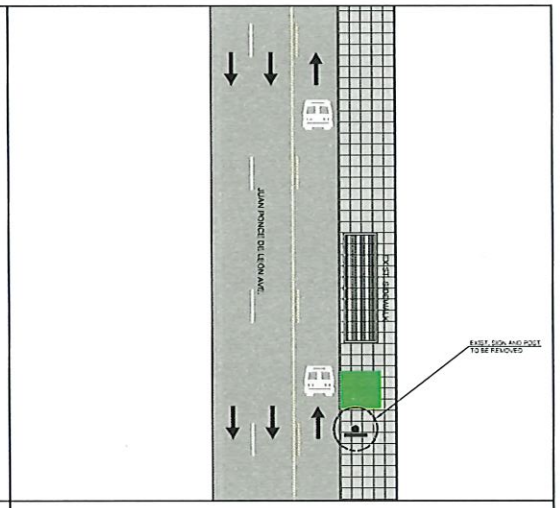
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

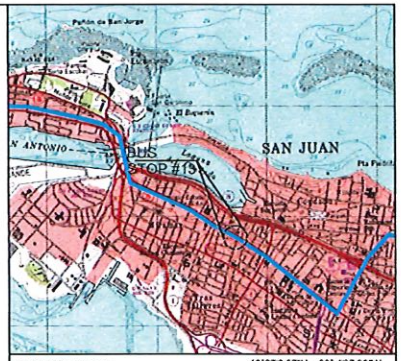


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#13

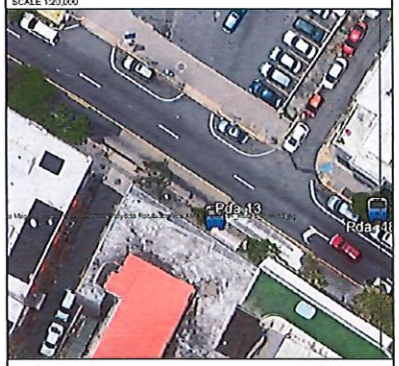


EXIST. CONDITIONS - ROUTE 5 | B.S.#13

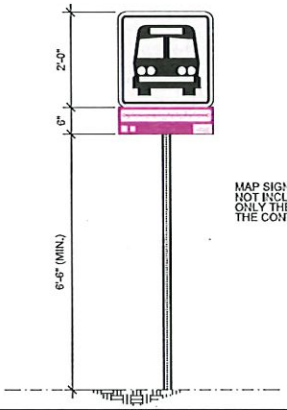
2.5 0 5 15
SCALE 1:200



LOCATION PLAN 18°27'8.67"N , 66° 4'37.38"W
SCALE 1:20,000



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



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
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND FIRES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA 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 2.62M.

Yo, Hernan E. López Báez, Ingeniero Licencia 18184, certifico que soy el profesional que conceptualizó, diseñó y/o preparó estos planos y las especificaciones complementarias. Further, certifico que el diseño por Ustos diseño y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación total o bifurcación de los trabajos que se haya producido por desconocimiento o por negligencia, ya sea por mi, mis agentes o empleados o por otra persona con mi consentimiento, me hacen responsable de cualquier acción judicial y civil hecha por la OGPe.

ENZO Engineering, psc.
PO Box 3040, PMB 427
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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18184

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #13

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. BEFORE OPPOSITE SIDE OF RONCABADO ST. MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

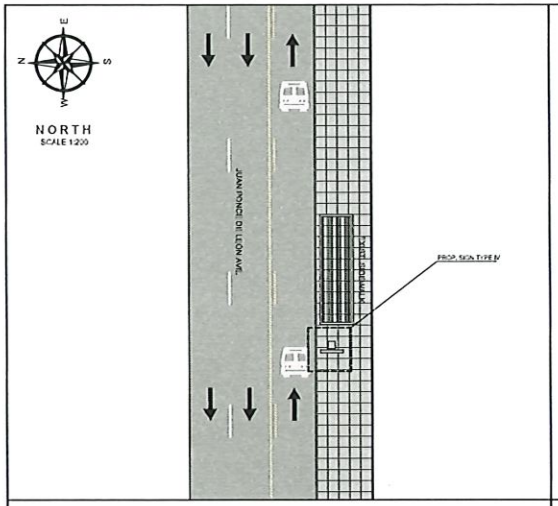
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.05	SHEET NO. 11 OF 88

ROUTE 5 | BUS STOP #14

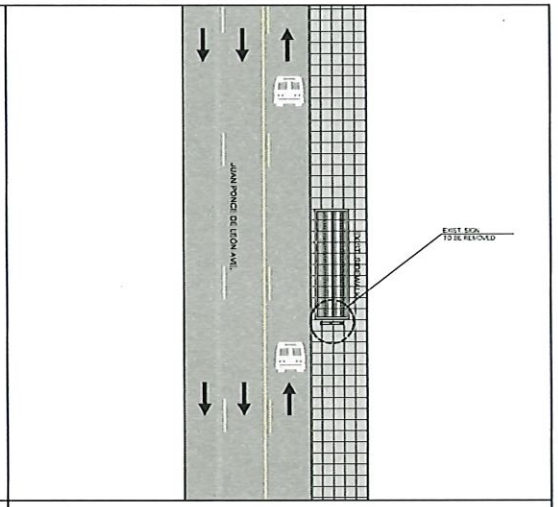
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

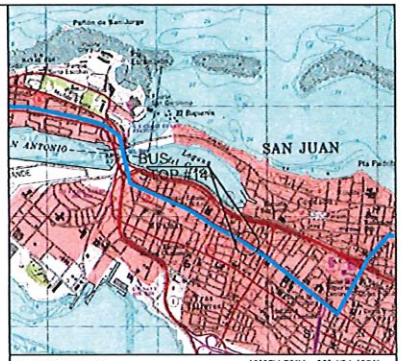


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#14

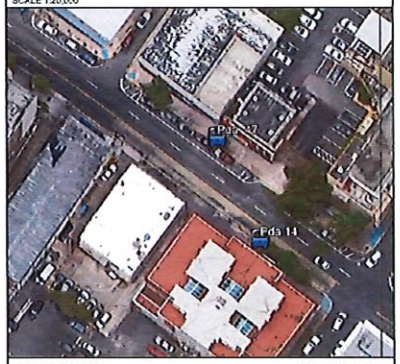


EXIST. CONDITIONS - ROUTE 5 | B.S.#14

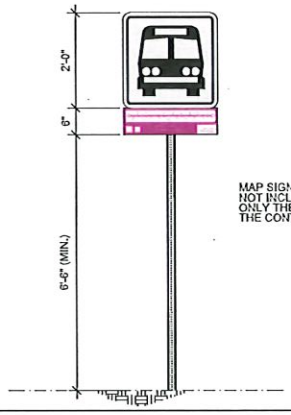
2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°27'4.73"N , 66° 4'31.10"W



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



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
- PRIVIA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITS 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 REMOVED THE EXISTING SIGN. THESE STRUCTURE SHALL BE DELIVERED TO THE PRIVIA PERSONNEL.
4. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones, cumpliendo con los Reglamentos Conjuntos y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier incumplimiento total o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y administrativa por la OGPe.

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LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18-54PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #14

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. BEFORE CONDADO ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

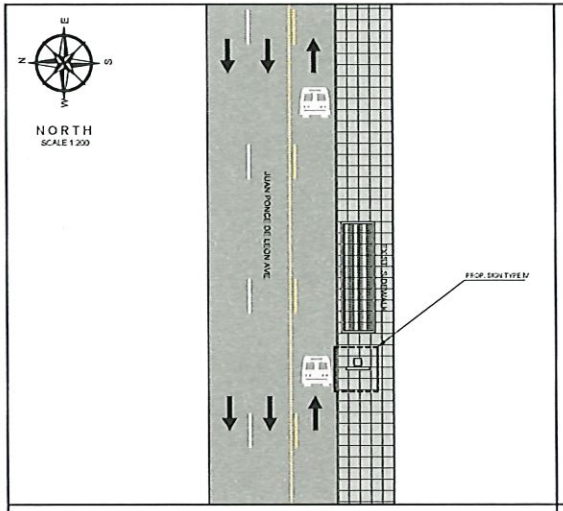
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.06	SHEET NO. 12 OF 88

ROUTE 5 | BUS STOP #11

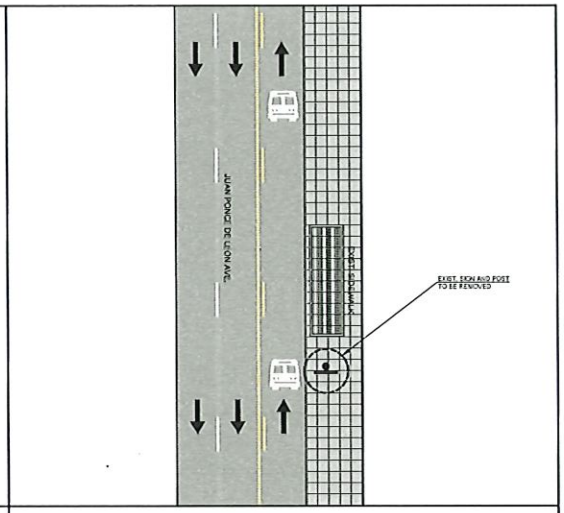
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

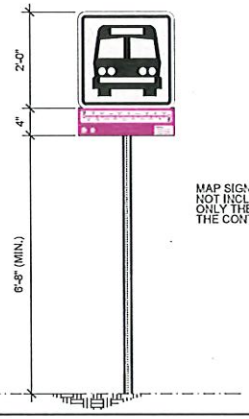


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#11



EXIST. CONDITIONS - ROUTE 5 | B.S.#11

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE IV

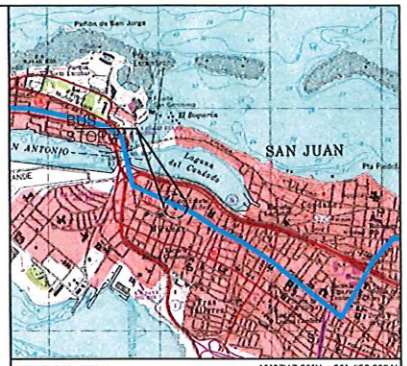
NOT TO SCALE

LEGEND:

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

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH ING OF THE MUNICIPALITY OF SAN JUAN ABOUT THE SAME TILE TO INSTALL. BUT THESE TILES (3) 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 0.60 M.



LOCATION PLAN
SCALE 1:20,000
18°27'17.69"N , 66° 4'53.02"W

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

Yo Hernan E. Lopez Baez, Ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que estimo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Reconozco que cualquier deficiencia falta o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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Gurabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO
LICENCIADO
PUERTO RICO

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #11

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. BEFORE OPPOSITE SIDE OF WAYMOUTH ST. MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.05	SHEET NO. 13 OF 88

ROUTE 5 | BUS STOP #16

PHOTO - 1

PHOTO - 2

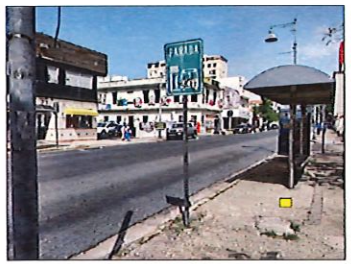
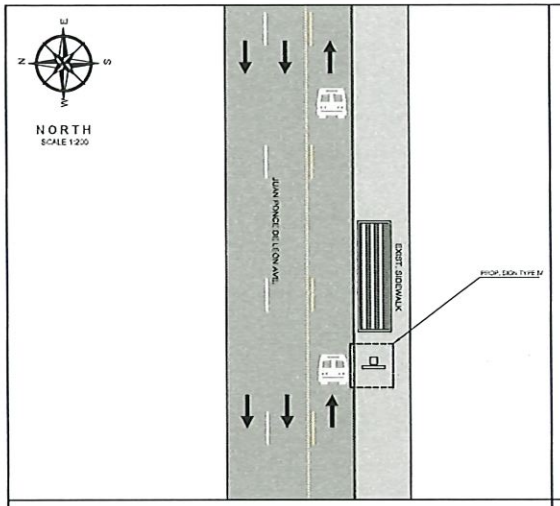
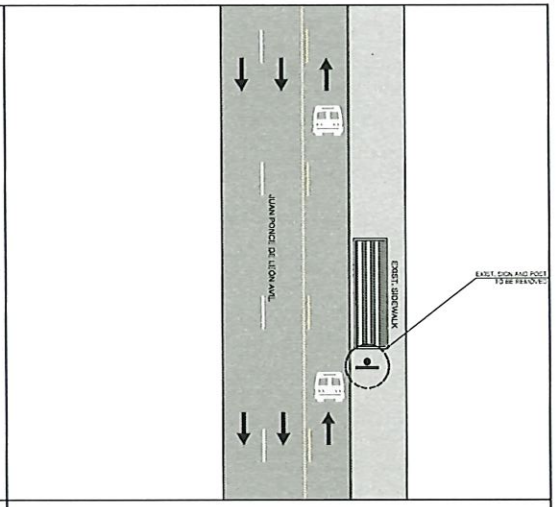


PHOTO - 3: PROPOSED SIGN LOCATION

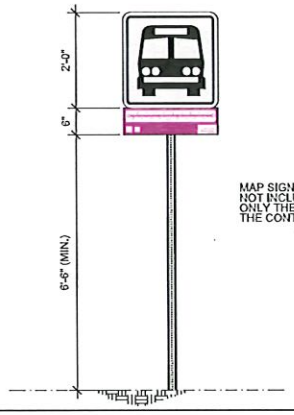


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#16



EXIST. CONDITIONS - ROUTE 5 | B.S.#16

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE IV

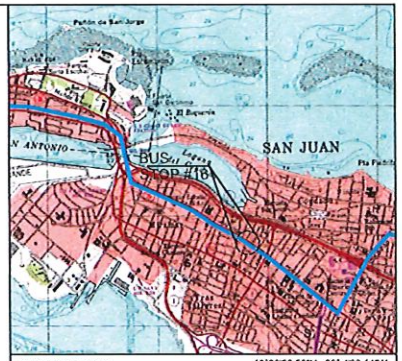
NOT TO SCALE

LEGEND:

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

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE FRIMSA 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 0.30 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN SIDEWALK AREA. REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000
18°26'56.56"N , 66° 420.14"W

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

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-34, certifico que soy el profesional que confeccionó dicho plano y que los especificaciones, cómputos varios, formulas y cálculos que en dicho plano y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de las Agencias, Juntas, Reglamentadoras o Corporaciones Públicas con jurisdicción. Asimismo, que cualquier declaración falsa o falsificación de los hechos que se haya proferido por desconocimiento o por negligencia que sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hacer responsable de cualquier acción judicial y disciplinaria por la OGPe.

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Guraeo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18-34PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #16

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. AFTER OPPOSITE SIDE OF DUFFAUT ST. MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.08	SHEET NO. 14 OF 88

ROUTE 5 | BUS STOP #17

PHOTO - 1

PHOTO - 2

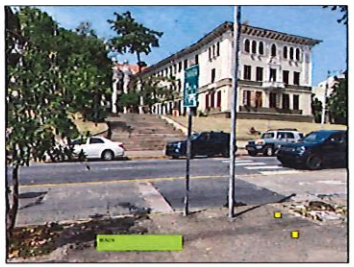
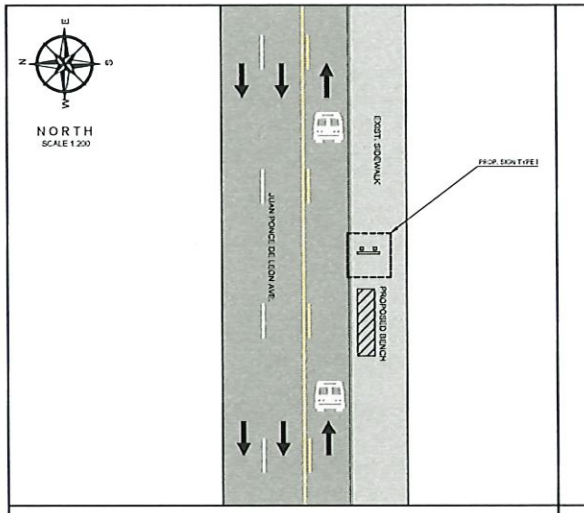
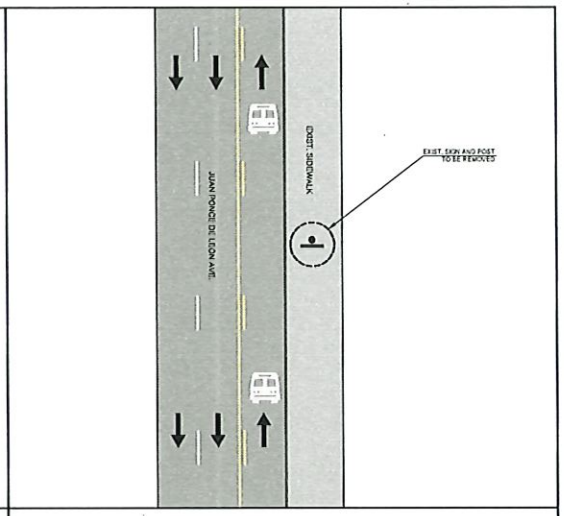


PHOTO - 3: PROPOSED SIGN LOCATION

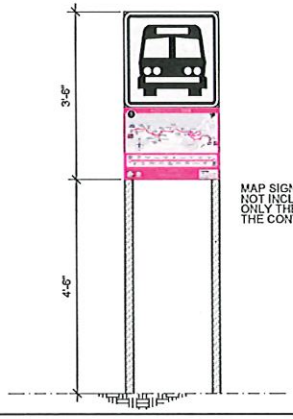


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#17



EXIST. CONDITIONS - ROUTE 5 | B.S.#17

2.5 0 5 15
SCALE 1:200



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

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
- FRIMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION
- PROPOSED BENCH

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE FRIMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED BENCH AND SIGN IN THE SIDEWALK 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 2.50 M.
7. THE CONTRACTOR SHALL TRIM THE BRANCHES TREE.

LOCATION PLAN
SCALE 1:20,000
18°26'50.82"N , 66° 4'12.93"W

AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.86.42 PRO

Yo, Hernan E. Lopez Baez, Ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones completo material. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
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Guraso, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #17

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. BEFORE LLOVERAS ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.09	SHEET NO. 15 OF 88

ROUTE 5 | BUS STOP #18

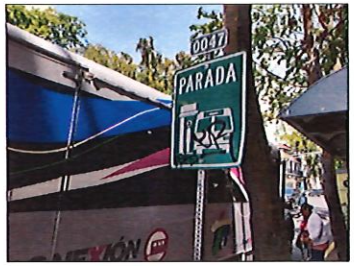
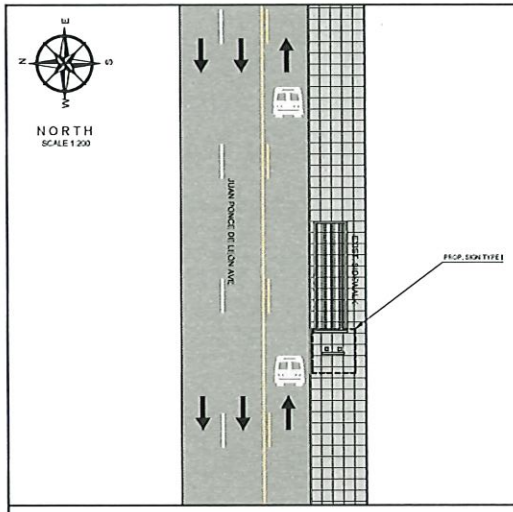


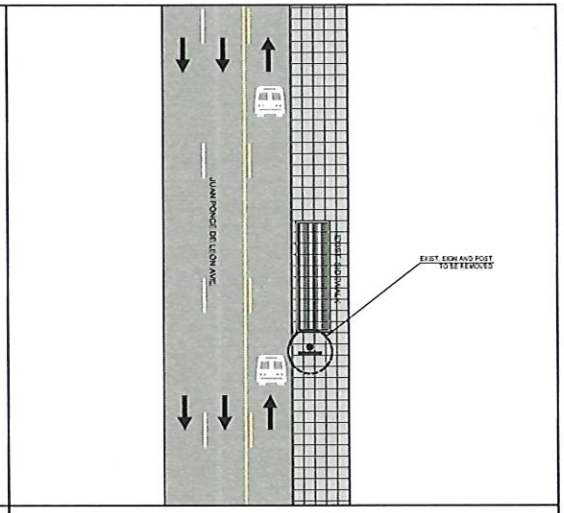
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

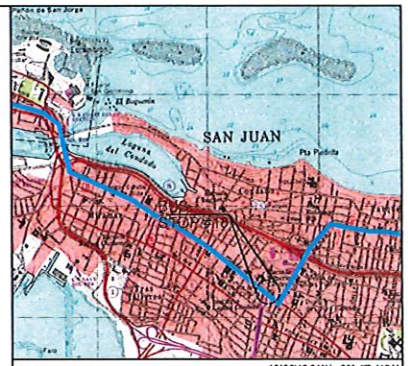


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#18



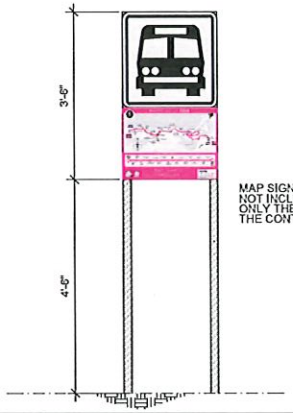
EXIST. CONDITIONS - ROUTE 5 | B.S.#18

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°26'45.81"N , 66° 47.41"W

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



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

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
- PRIMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES 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 REMOVES THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PWD OF THE MUNICIPALITY OF SAN JUAN. ABOUT THE SAME TILE TO INSTALL, BUY THREE TILES (3). 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 0.60 M.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones completo en tales. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento me hacen responsable de incurrir acción judicial y disciplinaria por la JCPR.

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INGENIERO
LICENCIADO
PUERTO RICO

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #18

FROM SAN JUAN TO ITURREGUI AVENUE
EXCLUSIVE LANE JUAN PONCE DE LEÓN AVE. BEFORE OPPOSITE SIDE OF DE DIEGO AVE. MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

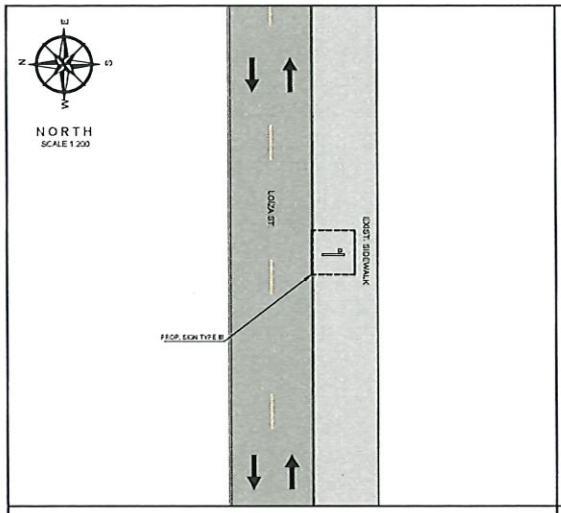
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAWN BY: ABZ
DWG. TYPE: TS-1.10	SHEET NO. 16 OF 88

ROUTE 5 | BUS STOP #22

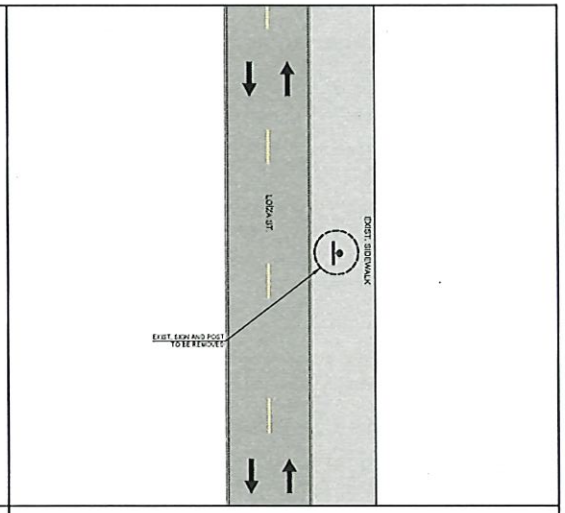
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

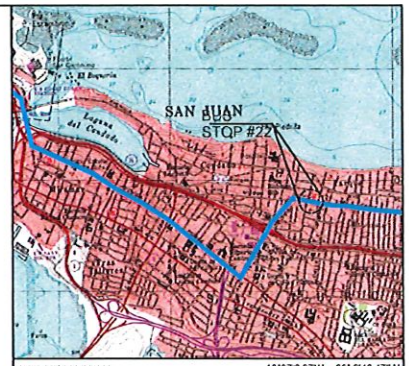


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#22



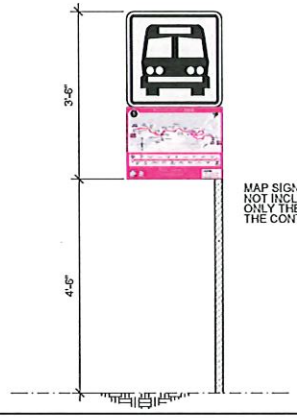
EXIST. CONDITIONS - ROUTE 5 | B.S.#22

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°27'6.87"N , 66° 3'45.47"W

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



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

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
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

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2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPSED CANTILEVER SIGN NEXT TO PROPERTY'S WALL. 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 0.61 M.
7. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.

Yo, Hernan E. López Baez, Ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones compleméntanos. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier desviación falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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Gurabo, PR 00778
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HERNAN E. LOPEZ BAEZ
INGENIERO
LICENCIADO
PUERTO RICO

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #22

FROM SAN JUAN TO ITURREGUI AVENUE
LOÍZA ST. INT. DEL PARQUE ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

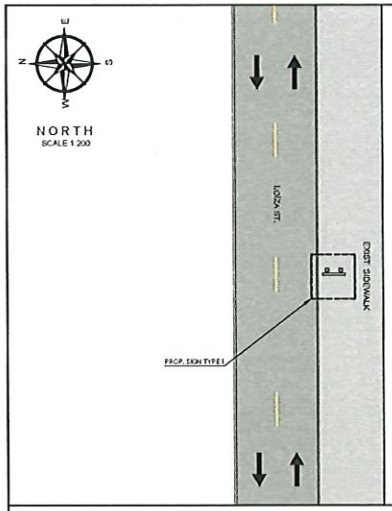
REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAW BY ABZ
DWG. TYPE TS-1.11	SHEET NO. 17 OF 88

ROUTE 5 | BUS STOP #23

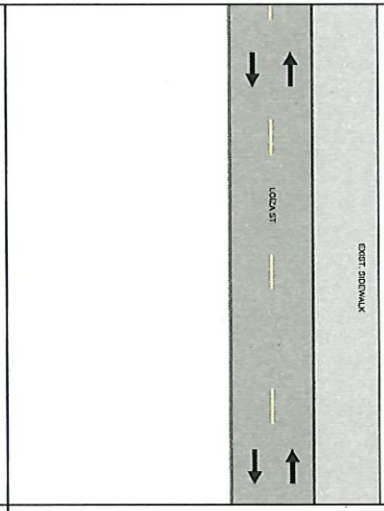
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

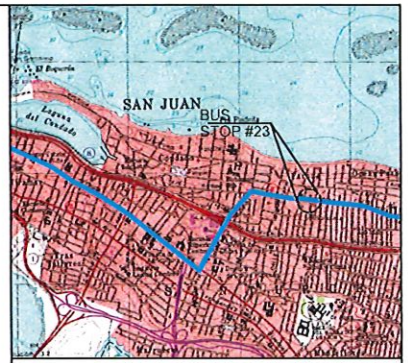


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#23



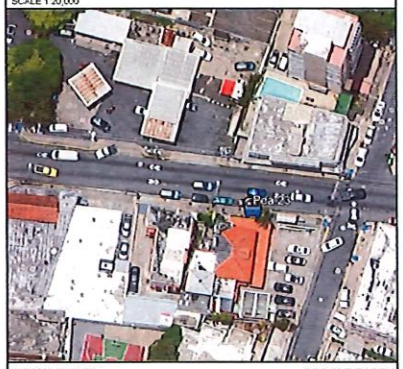
EXIST. CONDITIONS - ROUTE 5 | B.S.#23

2.5 0 5 15
SCALE 1:200



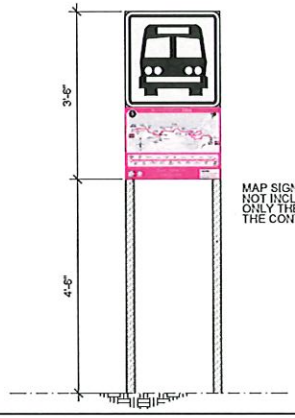
LOCATION PLAN
SCALE 1:20,000

18°27'6.01"N , 66° 3'39.99"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO



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

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 EXCAVATION, DEMOLITION AND PIPES 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.
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 DURB SHALL BE 0.61 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA. REFER TO PHOTO #1.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la DOPR.

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #23

FROM SAN JUAN TO ITURREGUI AVENUE
LOÍZA ST. INT. TAFT ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

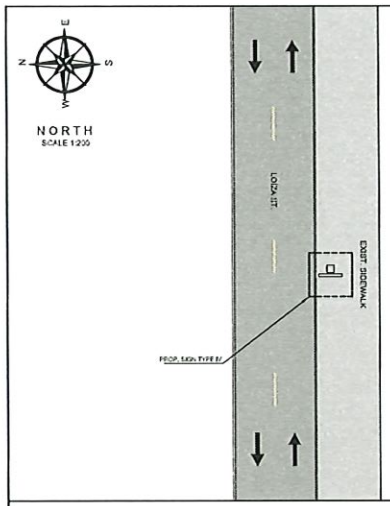
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.12	SHEET NO. 18 OF 88

ROUTE 5 | BUS STOP #24

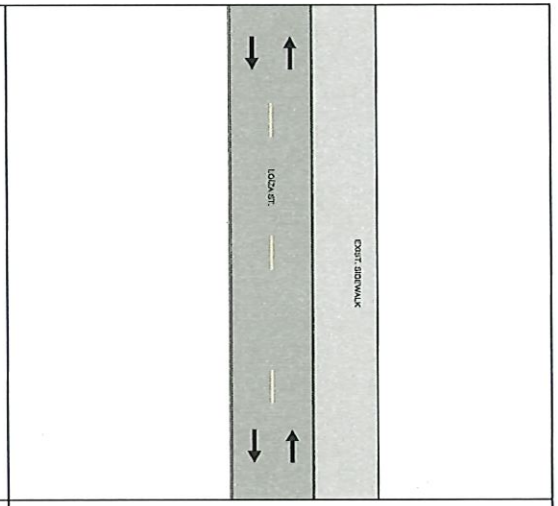
PHOTO - 1

PHOTO - 2

PHOTO - 3; PROPOSED SIGN LOCATION

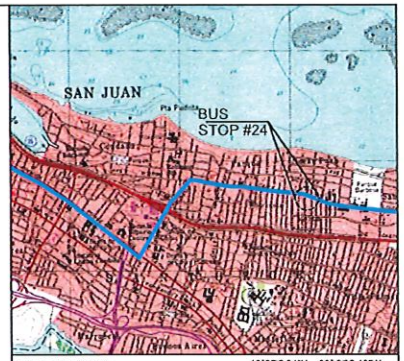


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#24

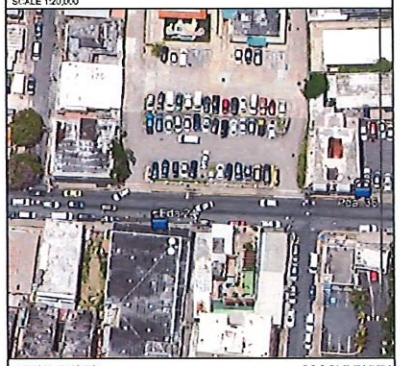


EXIST. CONDITIONS - ROUTE 5 | B.S.#24

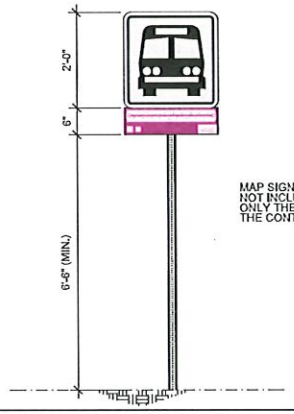
2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°27'5.04"N , 66° 3'32.45"W



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



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
- FRIMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

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2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
4. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones complementarias. Tambien certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias, Juntas, Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier inobservancia total o fraccionada de las leyes que se hayan promulgado por descuidadez, o por negligencia que sea por mi, mis agentes o empleados o por una persona con mi consentimiento, me hacen responsable de cualquier acción judicial y daños ante por 10 Pr.

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

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #24

FROM SAN JUAN TO ITURREGUI AVENUE
LOÍZA ST. BEFORE JEFFERSON ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

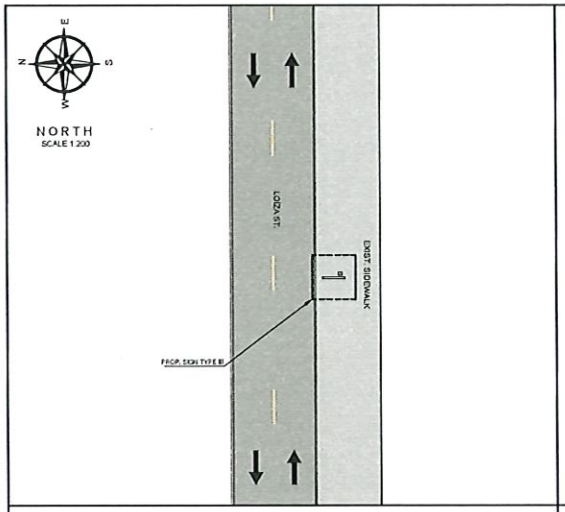
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.13	SHEET NO. 19 OF 88

ROUTE 5 | BUS STOP #25

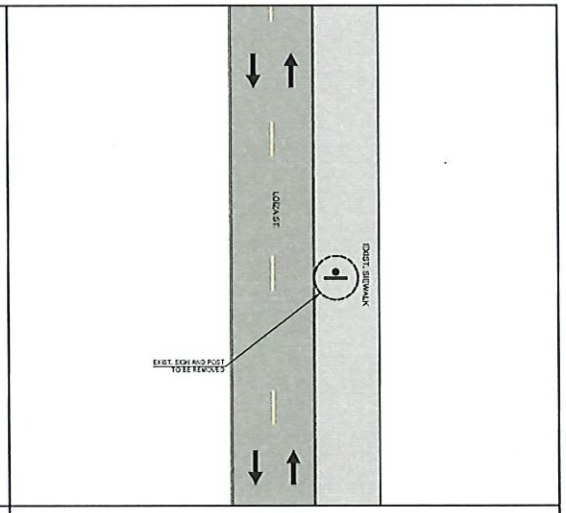
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

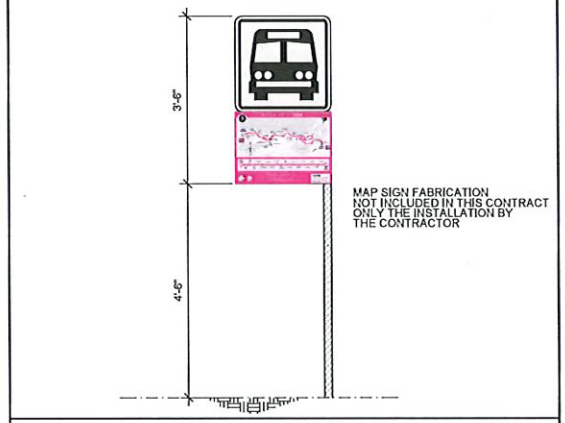


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#25



EXIST. CONDITIONS - ROUTE 5 | B.S.#25

2.5 0 5 15
SCALE 1:200



PROPOSED SIGN TYPE III

NOT TO SCALE

LEGEND:

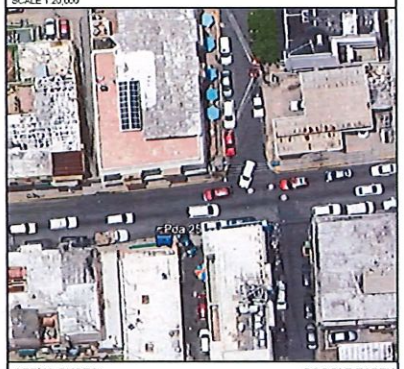
- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL REMOVE THE EXISTING POST WITHOUT SIGN IN FRONT OF THE PROPERTY & SHALL INSTALL THE PROPOSED SIGN IN THIS LOCATION. REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD OUR SHALL BE 0.50 M.
7. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
8. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.

LOCATION PLAN
SCALE 1:20,000

18°27'4.29"N , 66° 3'27.01"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. López Baez, Ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier deficiencia falta o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados o por otras personas con mi consentimiento me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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

HERNAN E. LOPEZ BAEZ
INGENIERO
LICENCIADO
PUERTO RICO

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #25

FROM SAN JUAN TO ITURREGUI AVENUE
LOÍZA ST. BEFORE APONTE ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAWN BY: ABZ
DWG. TYPE: TS-1.14	SHEET NO. 20 OF 88

ROUTE 5 | BUS STOP #26

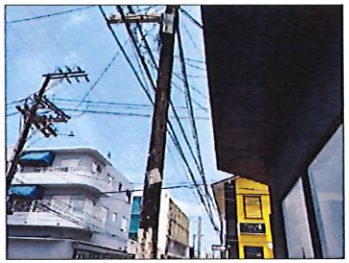
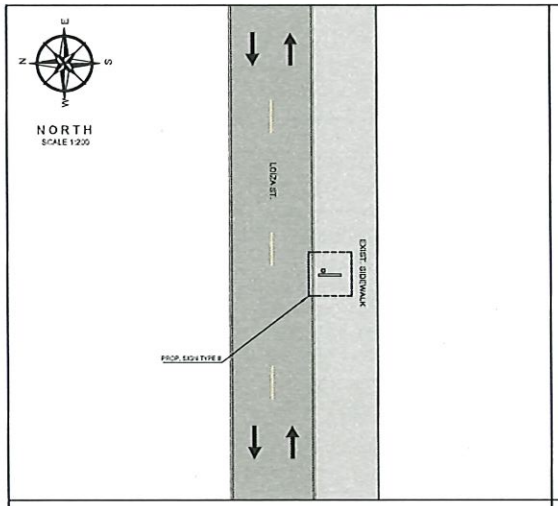


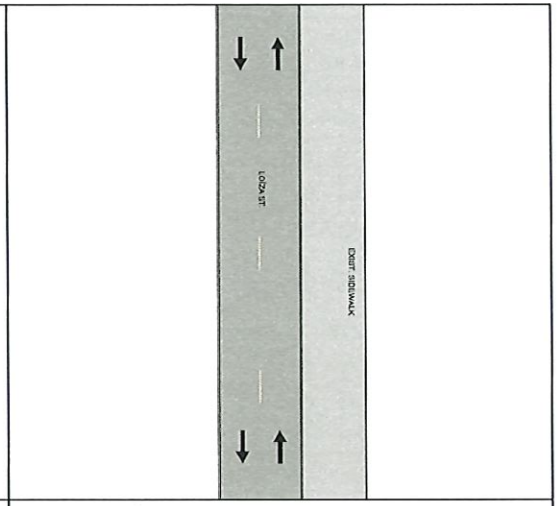
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

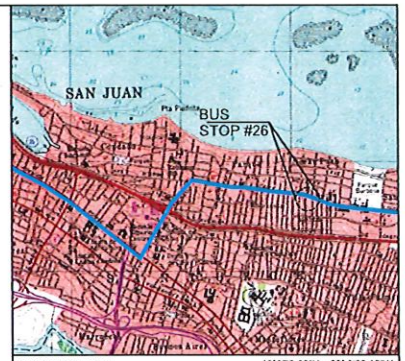


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#26

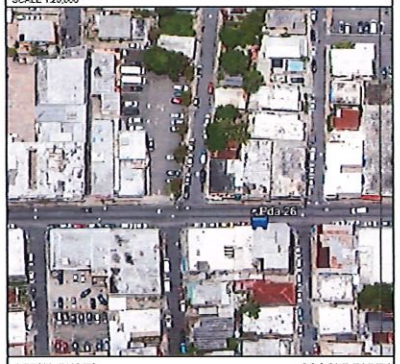


EXIST. CONDITIONS - ROUTE 5 | B.S.#26

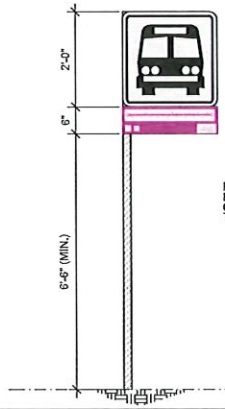
2.5 0 5 15
SCALE 1:200



LOCATION PLAN 18°27'3.65"N , 65° 3'22.15"W
SCALE 1:20,000



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



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

PROPOSED SIGN TYPE II 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 (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 INSTALL THE PROPOSED SIGN IN SIDEWALK IN FRONT OF THE ACCESS POLE, REFER TO PHOTO #3.
4. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 1.83 M.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones, conforme a ellas. También certifico que el diseño del sistema y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de las Agencias, Juntas, Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier omisión o falsedad en los hechos que se haya producido por desconocimiento, por negligencia o por mal uso de agentes o empleados o por otra persona con el consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #26

FROM SAN JUAN TO ITURREGUI AVENUE
LOÍZA ST. BEFORE MARÍA MOCZO ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.15	SHEET NO. 21 OF 88

ROUTE 5 | BUS STOP #27

PHOTO - 1

PHOTO - 2

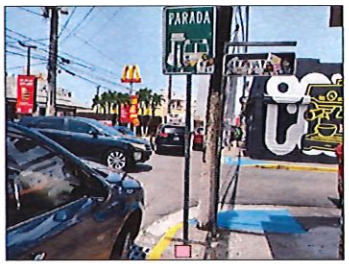
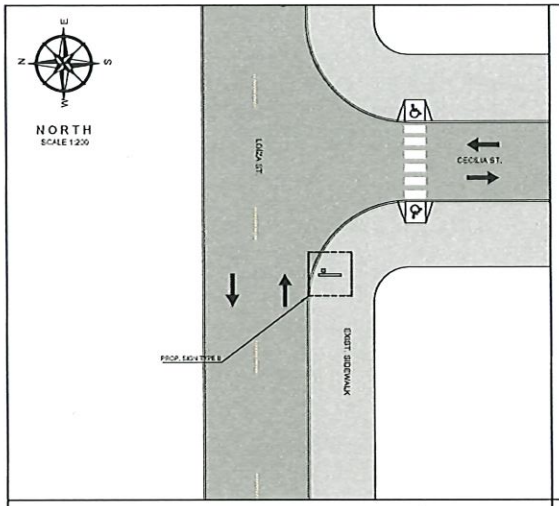
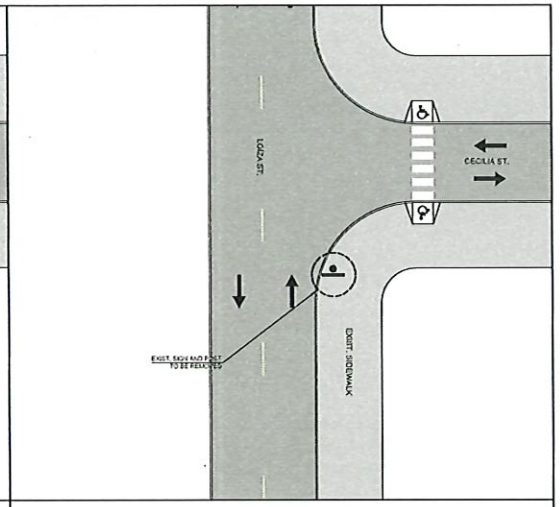


PHOTO - 3: PROPOSED SIGN LOCATION

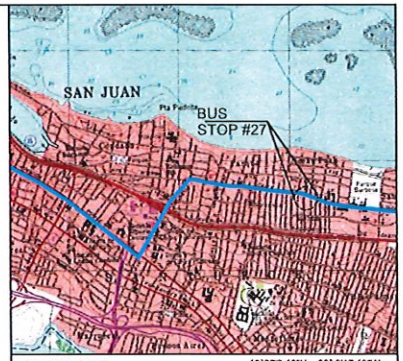


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#27

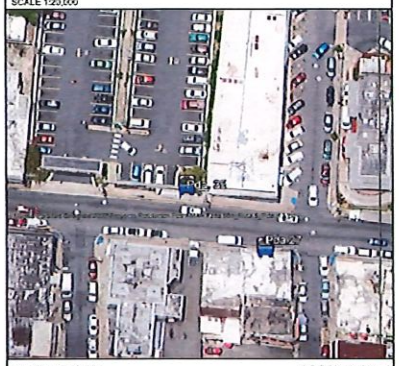


EXIST. CONDITIONS - ROUTE 5 | B.S.#27

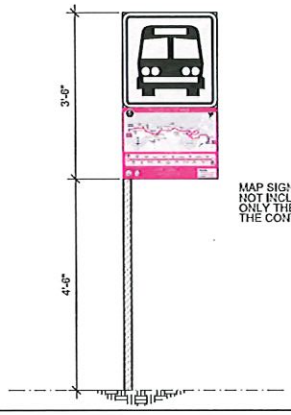
2.5 0 5 15
SCALE 1:200



LOCATION PLAN 18°27'3.16"N , 66° 3'17.13"W
SCALE 1:20,000



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



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

PROPOSED SIGN TYPE II 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 PIPES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA 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 0.61 M.
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 SHALL INSTALL THE PROPOSED SIGN IN SIDEWALK AREA. REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones completas aquí. Certifico que el diseño que aparece en estos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de la Agencia. Estos Reglamentos y Disposiciones Públicas son jurisdicciones. Reconozco que cualquier indicación falsa o falsificación de los hechos que se haya proferido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 5496

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #27

FROM SAN JUAN TO ITURREGUI AVENUE
LOÍZA ST. INT. SANTA CECILIA ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

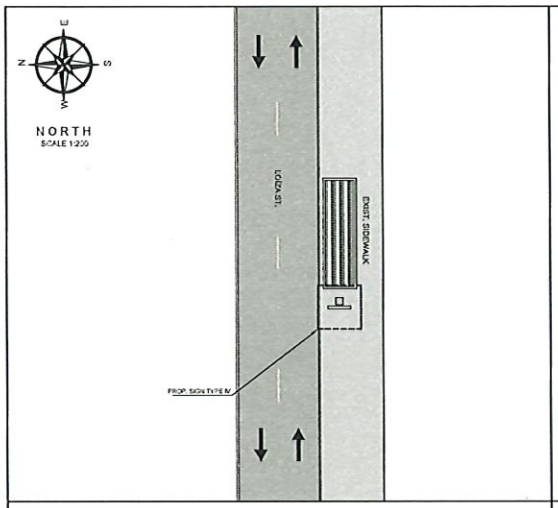
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.16	SHEET NO. 22 OF 88

ROUTE 5 | BUS STOP #28

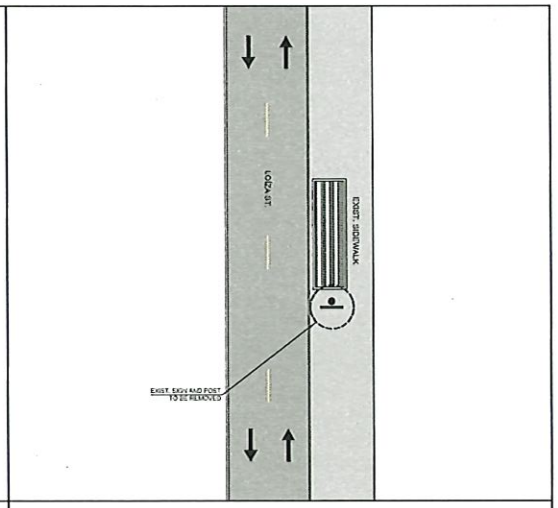
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

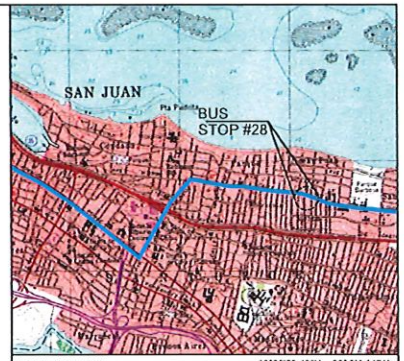


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#28



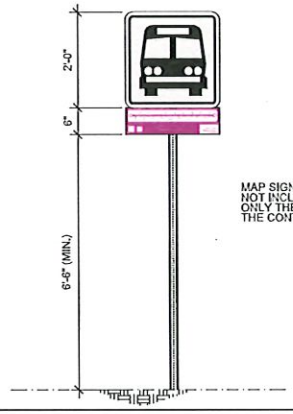
EXIST. CONDITIONS - ROUTE 5 | B.S.#28

2.5 0 5 15
SCALE 1:200



LOCATION PLAN 18°26'59.43"N , 66° 3'4.14"W
SCALE 1:20,000

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



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
- PRIMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE INTERNAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
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 IN SIDEWALK AREA. REFER TO PLATO #3.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que el diseño de estos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier indicación falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otra persona con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #28

FROM SAN JUAN TO ITURREGUI AVENUE
LOÍZA ST. AFTER OPPOSITE SIDE OF RAMPLA DEL ALMIRANTE ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.17	SHEET NO. 23 OF 88

ROUTE 5 | BUS STOP #29

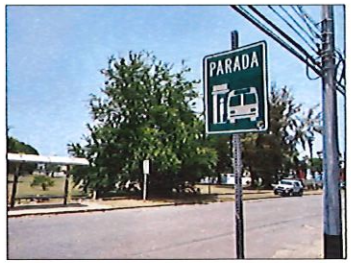
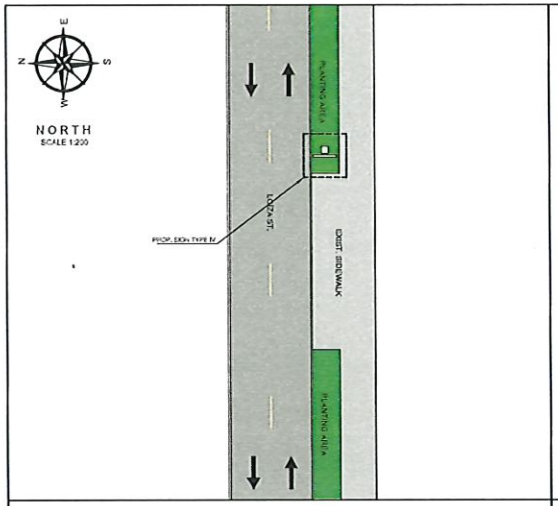


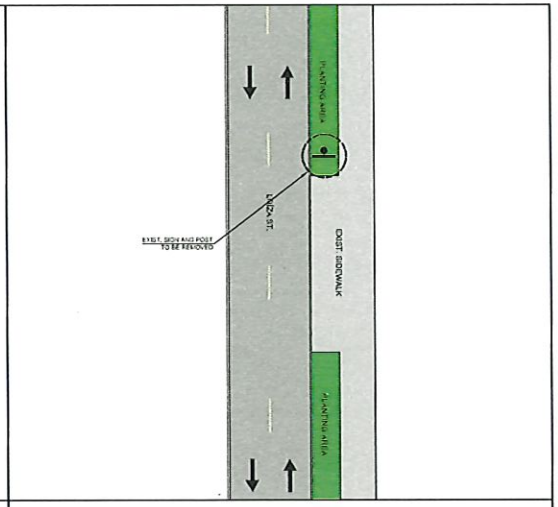
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

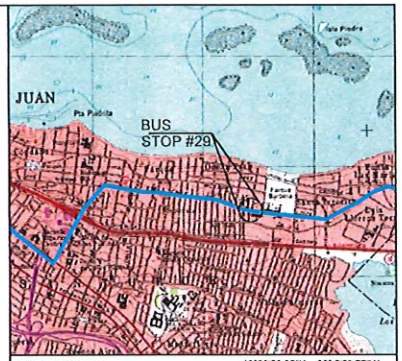


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#29



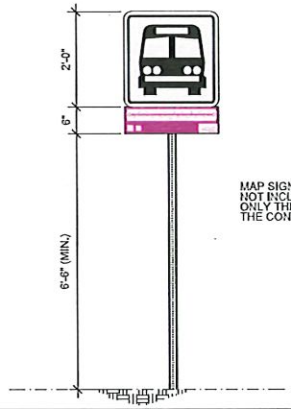
EXIST. CONDITIONS - ROUTE 5 | B.S.#29

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°26'58.05"N , 66° 2'53.77"W

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



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
- PRIMA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMSA 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 MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.61 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.

Yo, Hernan E. López Báez, Ingeniero licencia 18-51, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones, cumplen con las disposiciones aplicables del Reglamento Conjunto, las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier dolo, error o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, que me por mí o mis agentes, empleados o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y pública que se inicie.

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

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. #18-51

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #29

FROM SAN JUAN TO ITURREGUI AVENUE
LOÍZA ST. BEFORE PROVIDENCIA ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

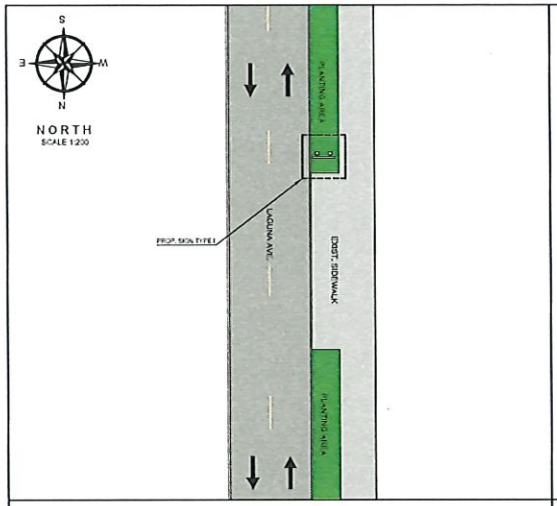
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.18	SHEET NO. 24 OF 88

ROUTE 5 | BUS STOP #47

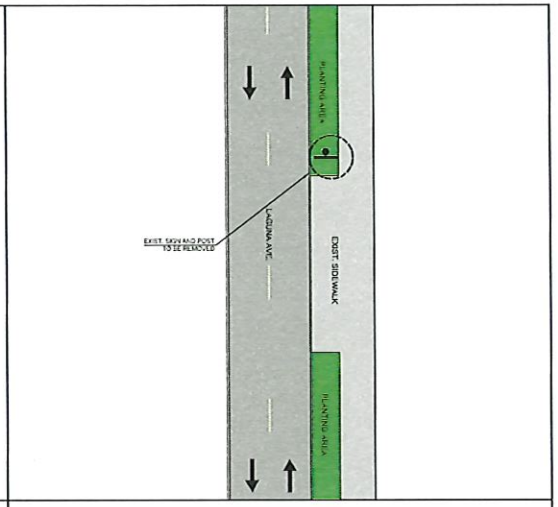
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

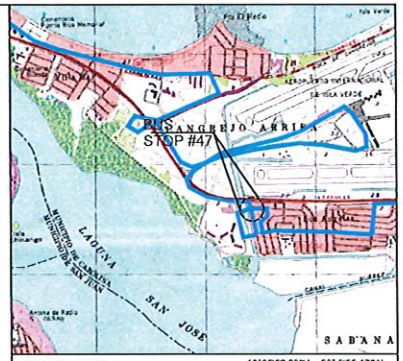


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#47



EXIST. CONDITIONS - ROUTE 5 | B.S.#47

2.5 0 5 15
SCALE 1:200

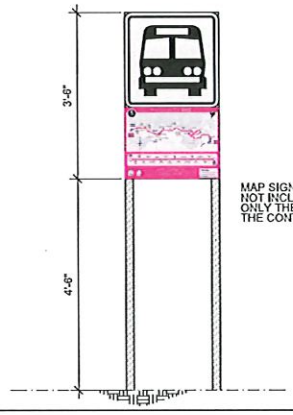


LOCATION PLAN
SCALE 1:20,000

18°25'52.63"N, 65° 0'55.17"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO



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

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
- PRIMA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMA 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 0.60 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTIN AREA. REFER TO PHOTO 3.
7. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que corresponde diseñ y preparé estos planos y las especificaciones, cumplen con las Normas, Reglas, certifico que se ajustan a las leyes, reglamentos y ordenanzas aplicables del Reglamento Conjunto y los dispositivos aplicables de los Reglamentos y Códigos de Construcción Agencias de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier desviación o alteración de las normas que se haya producido por desconocimiento, por negligencia o por error del mío, agentes o empleados o por otras personas con el conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Guaynabo, PR 00778
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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18-54PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #47

FROM SAN JUAN TO ITURREGUI AVENUE
LAGUNA AVENUE BEFORE OPPOSITE SIDE OF ACUARIO ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

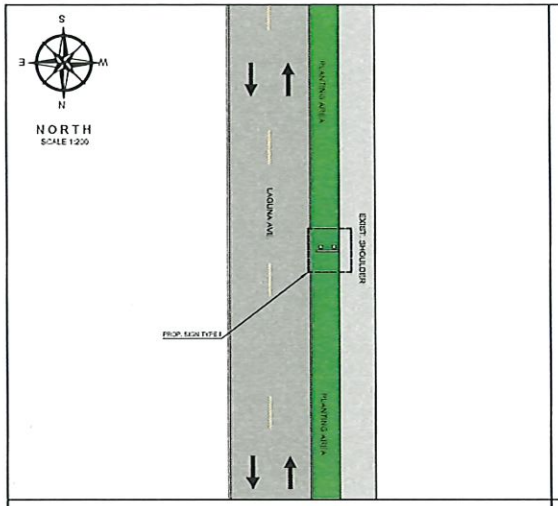
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.19	SHEET NO. 25 OF 88

ROUTE 5 | BUS STOP #48

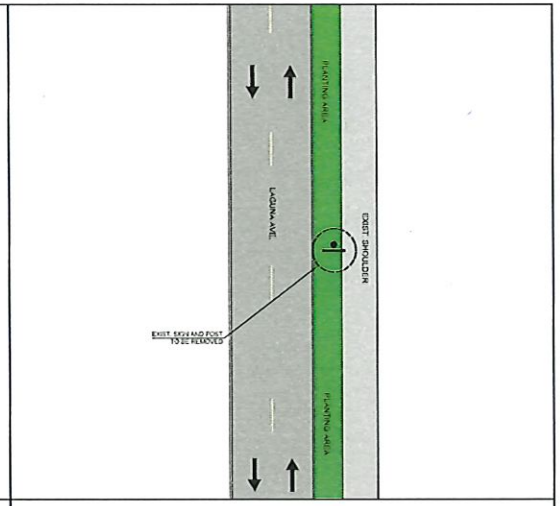
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION



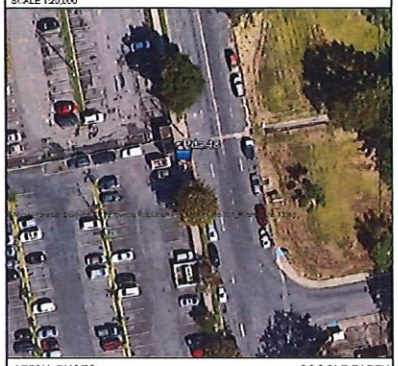
PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#48



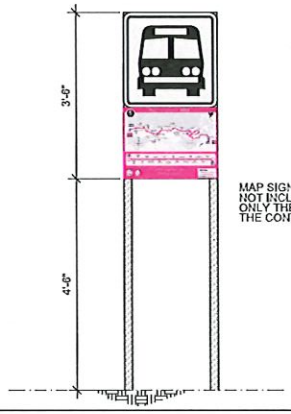
EXIST. CONDITIONS - ROUTE 5 | B.S.#48

2.5 0 5 15
SCALE 1:200

LOCATION PLAN
SCALE 1:20,000
18°25'45.44"N , 66° 0'53.48"W



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



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

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
- PRUSA EXCLUSIVE LANE (ANA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRUSA 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 0.61 M.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18184, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones completas aquí. Certifico, además, que el diseño de estas obras y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aplicables de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier incumplimiento total o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados o por otra persona con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18184PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #48

FROM SAN JUAN TO ITURREGUI AVENUE
LAGUNA AVENUE BEFORE OPPOSITE SIDE OF LUNA ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.20	SHEET NO. 26 OF 88

ROUTE 5 | BUS STOP #49

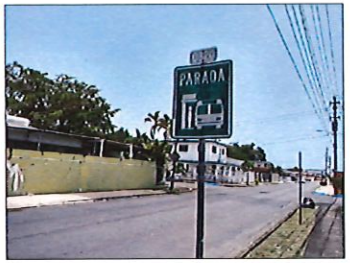
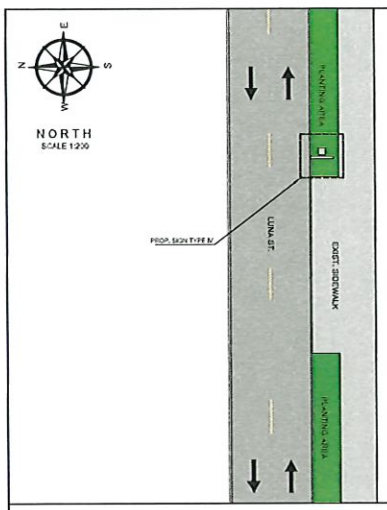


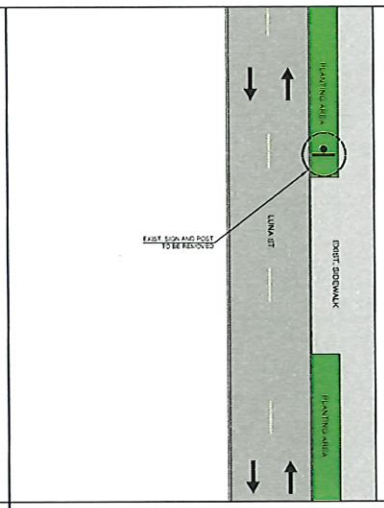
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

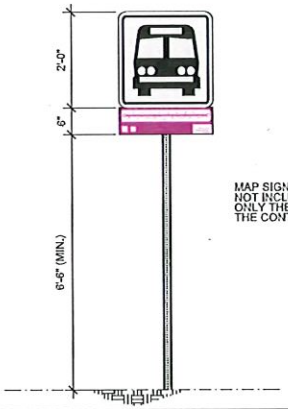


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#49



EXIST. CONDITIONS - ROUTE 5 | B.S.#49

2.5 0 5 15
SCALE 1:200



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
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

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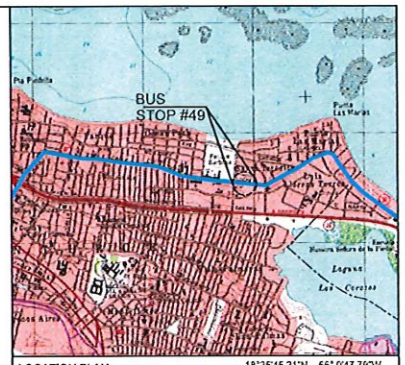
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, 2'-0" TO 8'-0 EXISTING LOCATION. REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE SIDEWALK LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.50 M.
7. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.



LOCATION PLAN
SCALE 1:20,000

18°25'45.21"N , 66° 0'47.79"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, Licencia No. 24, certifico que soy el profesional que contribuyó, diseñó y/o preparó estos planos y las especificaciones, cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aplicables de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación de los mismos que se haga posteriormente por desconocimiento, o por negligencia, o no por mi, más agencias o empleados, o por otras personas que no consultaron mi opinión responsable de cualquier acción judicial y/o administrativa por la OGPe.

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Guraabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 24PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #49

FROM SAN JUAN TO ITURREGUI AVENUE
LUNA ST. INT. ANDRÓMEDA ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

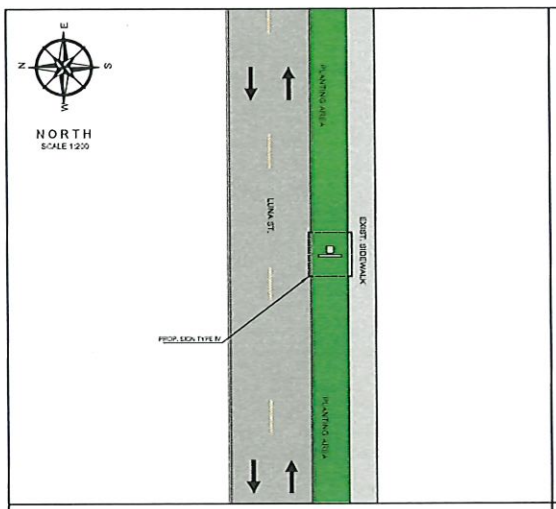
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.21	SHEET NO. 27 OF 88

ROUTE 5 | BUS STOP #50

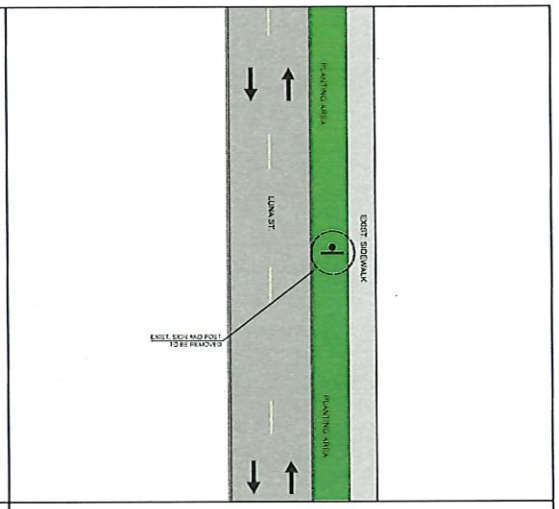
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

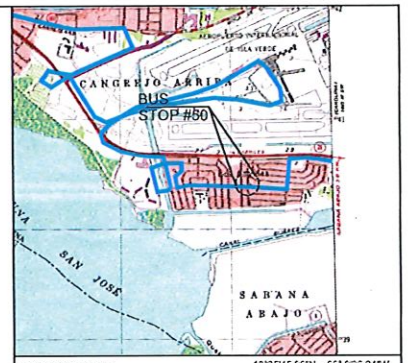


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#50



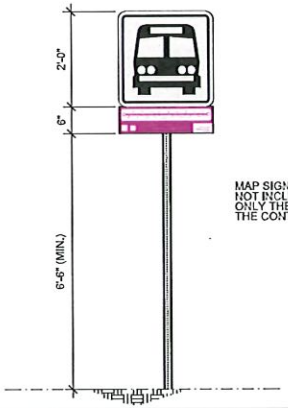
EXIST. CONDITIONS - ROUTE 5 | B.S.#50

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'45.56"N , 66° 0'36.24"W

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



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
- FRIMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE FRIMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, 3'-0" IN FRONT THE EXISTING ELECTRICITY POLE MOUNTED TRANSFORMER. 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 0.61 M.
7. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.

Yo, Hernan E. Lopez Baez, Ingeniero, Licencia 18151, certifico que soy el profesional que contribuyó, diseñó y/o preparó estos planos y las especificaciones completas adjuntas. Certifico, además que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya suministrado por desconocimiento o por negligencia de mi parte, de agencias o empleados o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la DCFM.

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

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18 SAFE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #50

FROM SAN JUAN TO ITURREGUI AVENUE
LUNA ST. INT. ASTRO ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

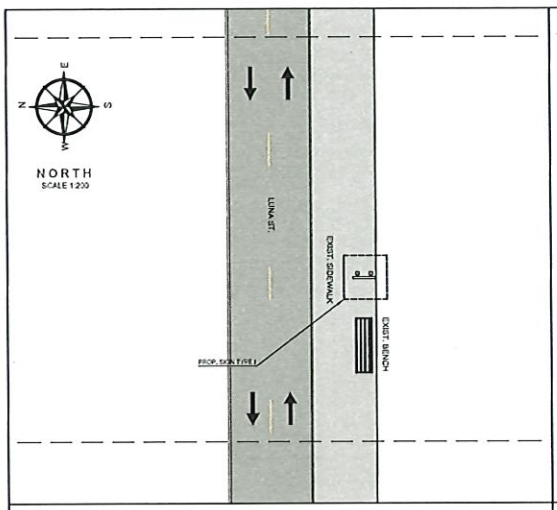
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.22	SHEET NO. 28 OF 88

ROUTE 5 | BUS STOP #51

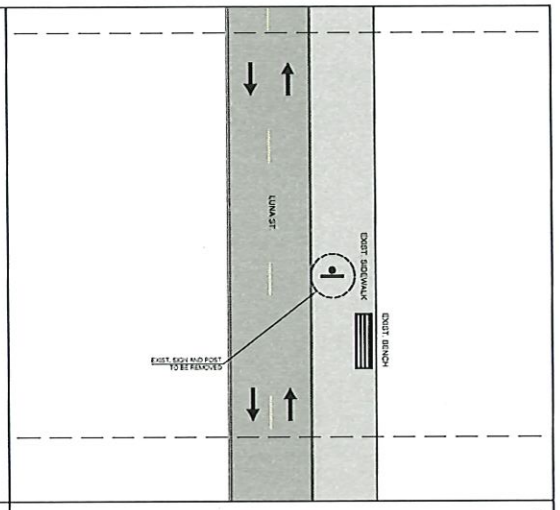
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

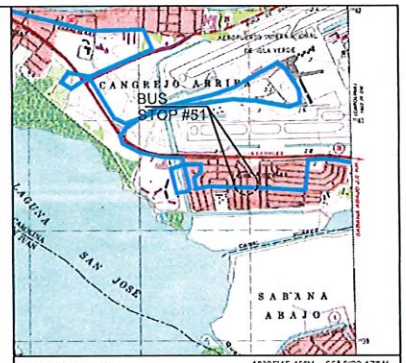


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#51



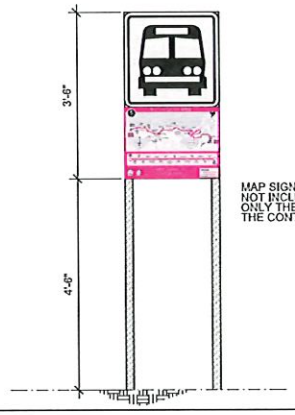
EXIST. CONDITIONS - ROUTE 5 | B.S.#51

2.5 0 5 15
SCALE 1:200



LOCATION PLAN 18°25'45.49"N , 66° 0'29.17"W
SCALE 1:20,000

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



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

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
- PRIMA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK, NEXT TO BRIDGE WALL 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 2.00M.

Yo, Hernan E. Lopez Baez, Ingeniero, Licencia 18184, certifico que soy el profesional que certificó, diseñó y/o preparó estos planos y las especificaciones complementarias. Certifico, además, que el diseño que aparece en estos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto, las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación o falsificación de los hechos que se haya producido por desconocimiento, por negligencia, por mal uso, por error, omisión o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18184PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #51

FROM SAN JUAN TO ITURREGUI AVENUE
LUNA ST. BEFORE TAURO ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

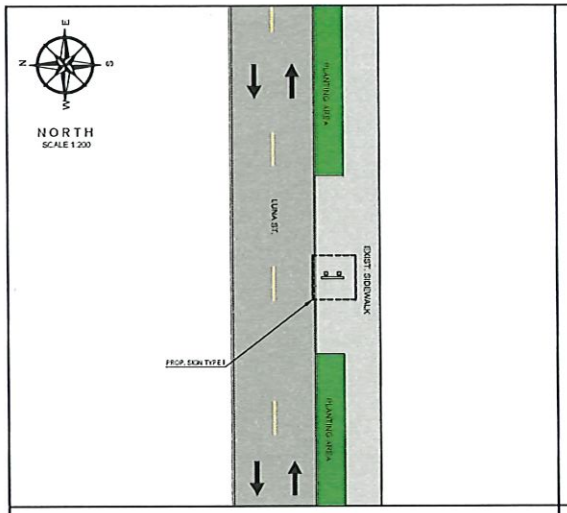
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.23	SHEET NO. 29 OF 88

ROUTE 5 | BUS STOP #52

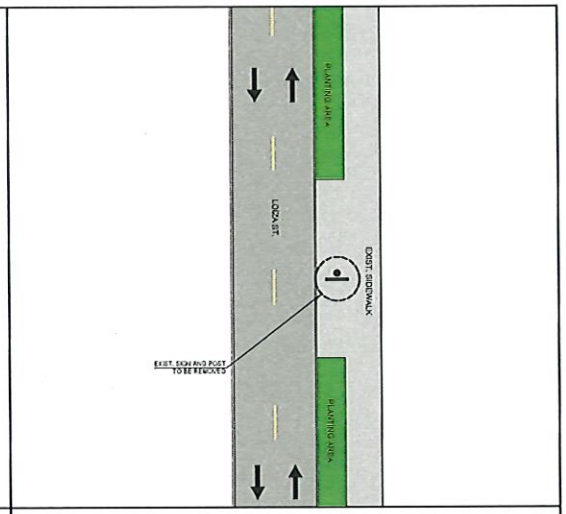
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

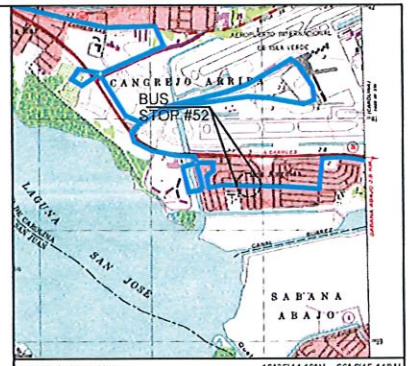


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#52



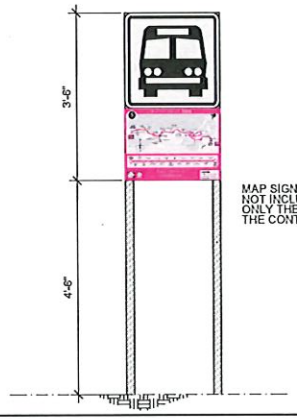
EXIST. CONDITIONS - ROUTE 5 | B.S.#52

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'44.19"N , 66° 0'15.11"W

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



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

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 EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINING 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA 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 2.50 ft.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.

Yo, Hernan E. López Báez, ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que entiendo que estos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otra persona por mí consentida, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Guaraba, PR 00778
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INGENIERO HERNAN E. LOPEZ BAEZ PUERTO RICO

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #52

FROM SAN JUAN TO ITURREGUI AVENUE
LUNA ST. BEFORE SOL ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

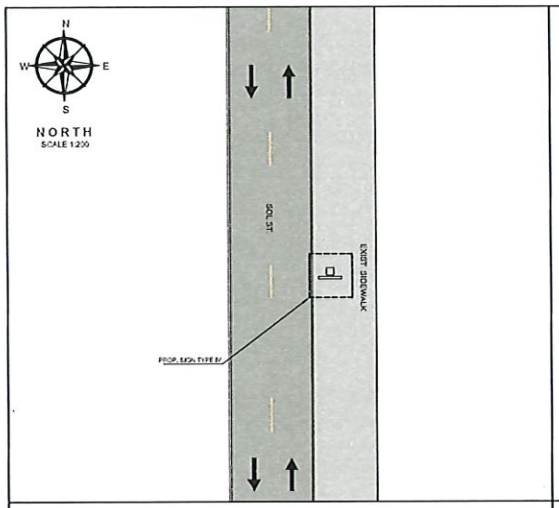
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.24	SHEET NO. 30 OF 88

ROUTE 5 | BUS STOP #53

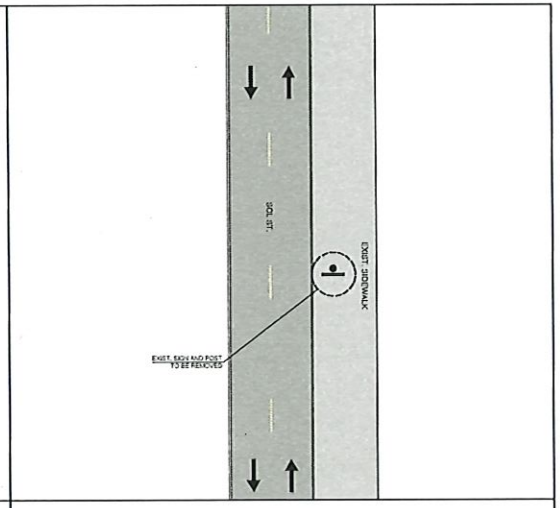
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

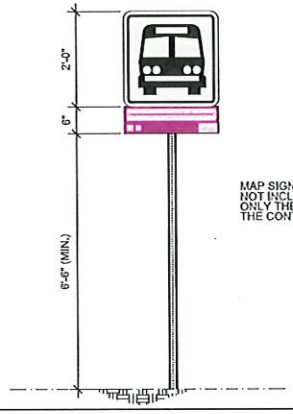


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#53



EXIST. CONDITIONS - ROUTE 5 | B.S.#53

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE IV

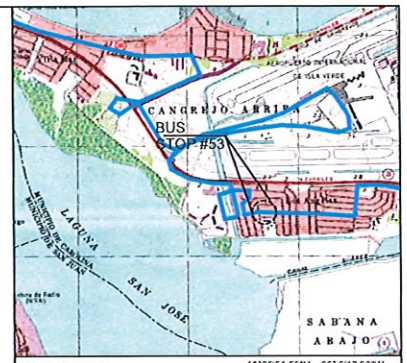
NOT TO SCALE

LEGEND:

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

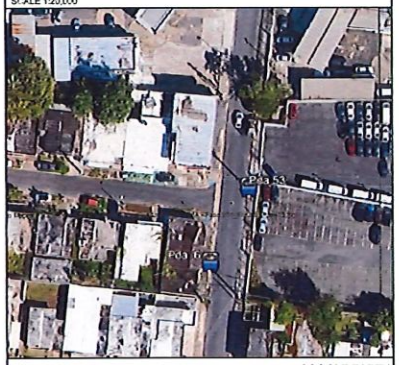
NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMA 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 MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 6'-6".
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000

18°25'51.50"N , 66° 0'12.38"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que verificó, diseñó y preparó estos planos y las especificaciones complementarias. Certifico, además que el diseño que ahora aparece y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas, Reglamentadoras y Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación total o fraccionaria de los trabajos que se hayan producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción, judicial y disciplinaria por la OGPe.

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Guraeo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18-54PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #53

FROM SAN JUAN TO ITURREGUI AVENUE
SOL ST. OPPOSITE SIDE OF SAGITARIO ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.25	SHEET NO. 31 OF 88

ROUTE 5 | BUS STOP #54

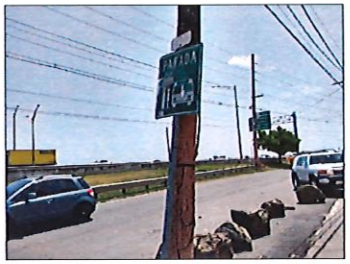
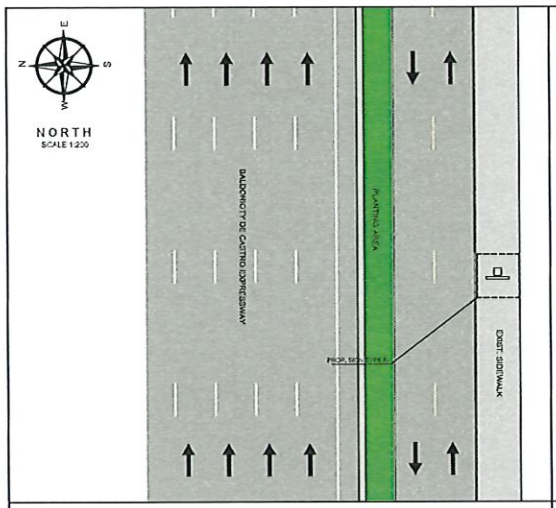


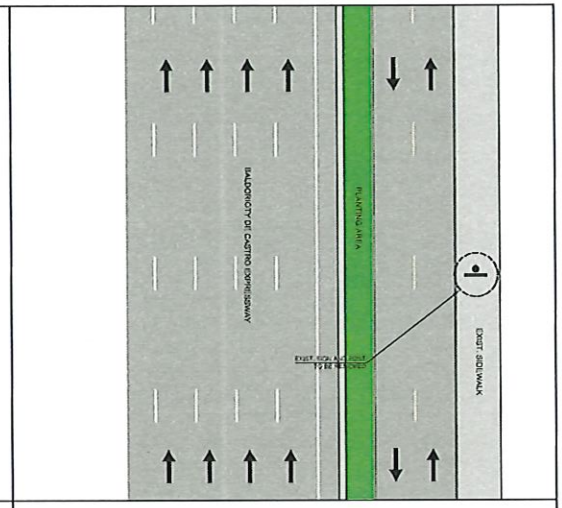
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

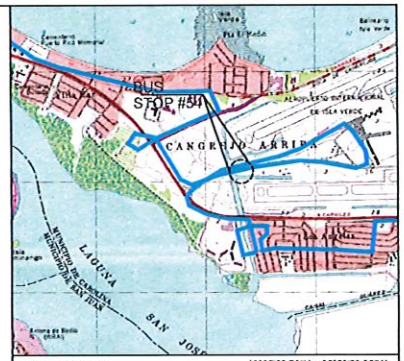


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#54

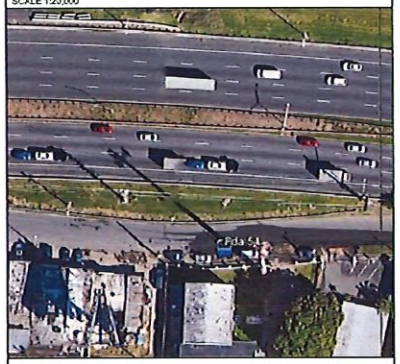


EXIST. CONDITIONS - ROUTE 5 | B.S.#54

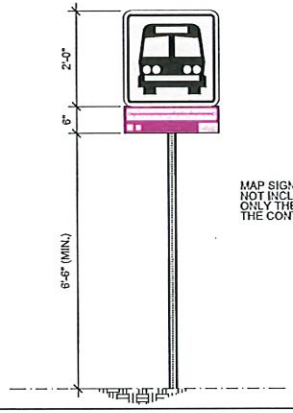
2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'52.72"N , 65°59'59.35"W



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



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
- PRIMA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN SIDEWALK AREA, IN FRONT OF THE PROPERTY WALL. 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 0.61 M.
7. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones completas bajo mi firma. También certifico que a tenor de las leyes y reglamentos aplicables del Reglamento Conjunto y las disposiciones aplicables a los Reglamentos y Códigos de Construcción Aprobados de las Agencias, Juntas Reglamentadoras y Corporaciones Públicas con jurisdicción. Reconozco que incluido pero sin limitarse a la totalidad de las horas que se haya pagado por descuidadas o por negligencia ya sea por mí, mis agentes o empleados o por otras personas con mi consentimiento, me hacer responsable de cualquier acción judicial y daños pagados por la OGPe.

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Guaraeo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18-54PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #54

FROM SAN JUAN TO ITURREGUI AVENUE
BALDORIOTY DE CASTRO MARGINAL FRONT METHODIST CHURCH
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.26	SHEET NO. 32 OF 88

ROUTE 5 | BUS STOP #55

PHOTO - 1

PHOTO - 2

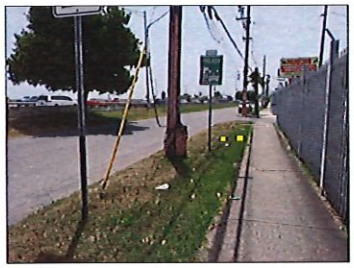
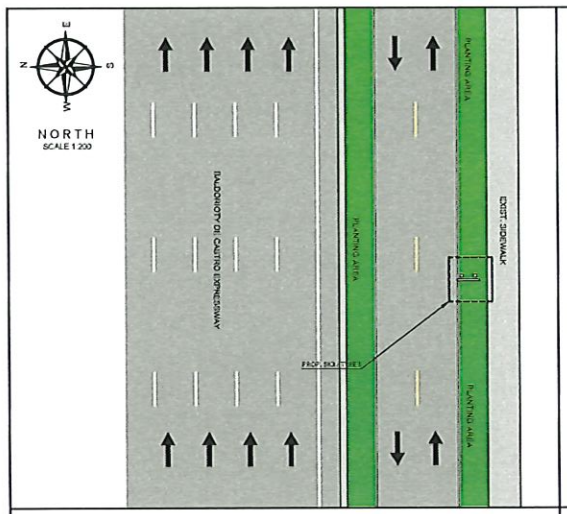
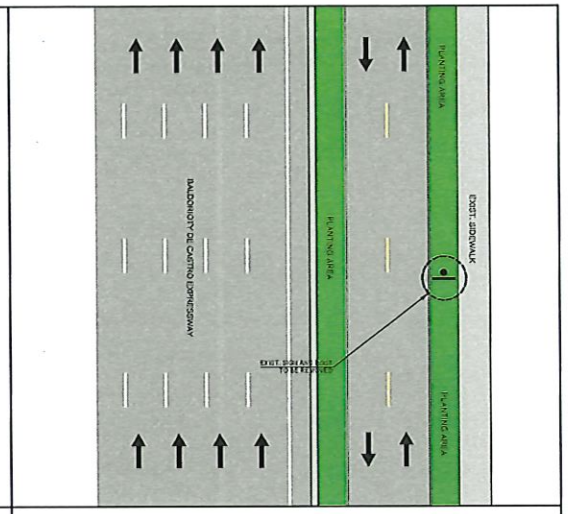


PHOTO - 3: PROPOSED SIGN LOCATION

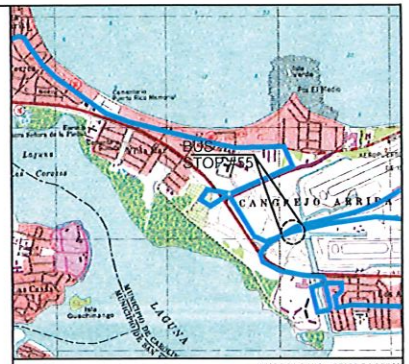


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#55

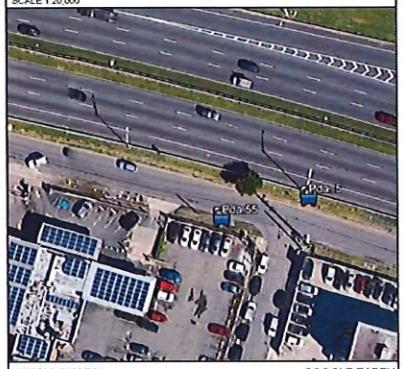


EXIST. CONDITIONS - ROUTE 5 | B.S.#55

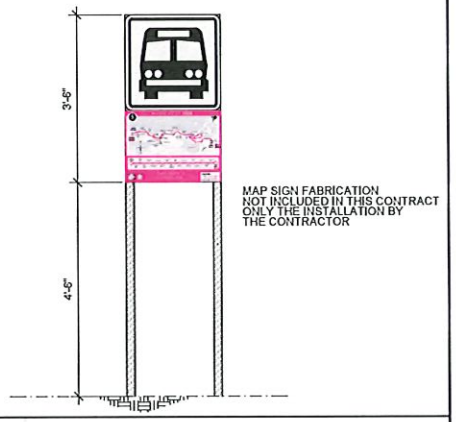
2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'51.84"N , 65°59'54.35"W



AERIAL PHOTO
SCALE 1:1,000
GOOGLE EARTH
VERSION: 7.3.4.8642 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
- FRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH INDIVIDUAL SITE DURING THE PROJECT.
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURE SHALL BE DELIVER TO THE PRUSA 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 MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD OUTS SHALL BE 6.56 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.

Yo, Hernan E. López Baez, Ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones completo-verdaderas. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier deficiencia falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis aparentes empleados o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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

HERNAN E. LOPEZ BAEZ
INGENIERO
LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #55

FROM SAN JUAN TO ITURREGUI AVENUE
BALDORIOTY DE CASTRO MARGINAL INT. JOAQUINA ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAWN BY: ABZ
DWG. TYPE: TS-1.27	SHEET NO. 33 OF 88

ROUTE 5 | BUS STOP #56

PHOTO - 1

PHOTO - 2

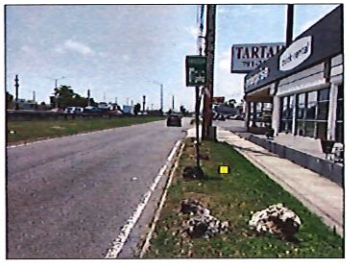
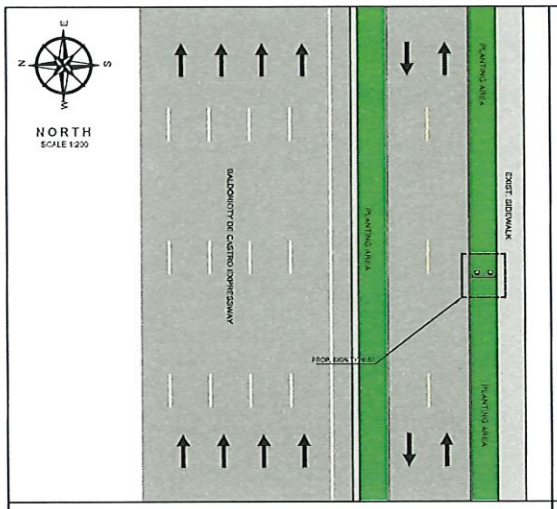
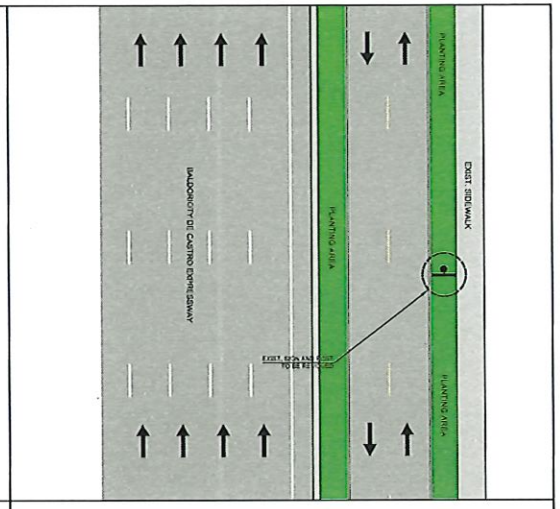


PHOTO - 3: PROPOSED SIGN LOCATION

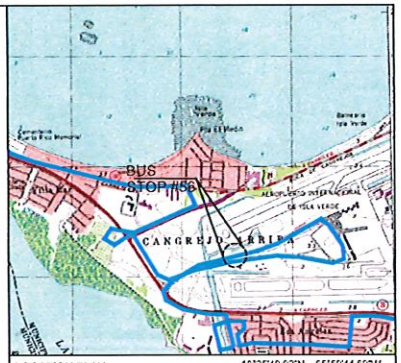


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#56

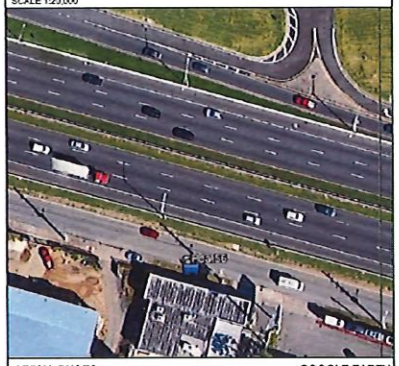


EXIST. CONDITIONS - ROUTE 5 | B.S.#56

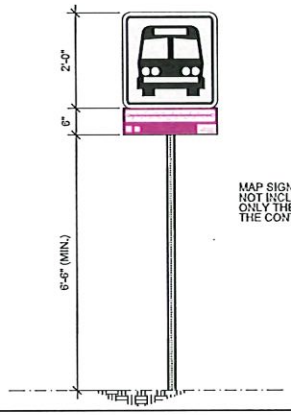
2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'49.02"N , 65°59'44.69"W



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



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
- PRVISA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRVISA 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 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 THE PLANTING AREA, REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero, Licencia 18 84, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones complementarias. Certifico, además que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas, Reglamentadoras y Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otra persona con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
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Guaraso, PR 00778
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HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18 84PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #56

FROM SAN JUAN TO ITURREGUI AVENUE
BALDORIOTY DE CASTRO MARGINAL FRONT ENTERPRISE
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

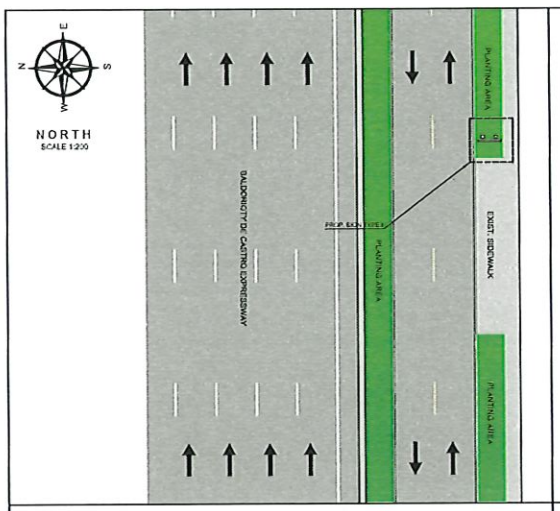
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.28	SHEET NO. 34 OF 88

ROUTE 5 | BUS STOP #57

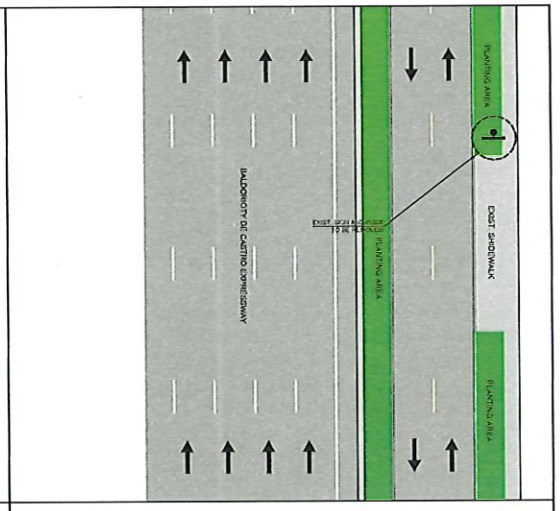
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

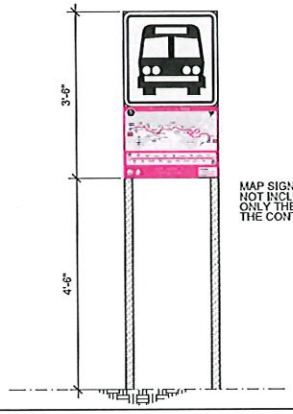


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#57



EXIST. CONDITIONS - ROUTE 5 | B.S.#57

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE I

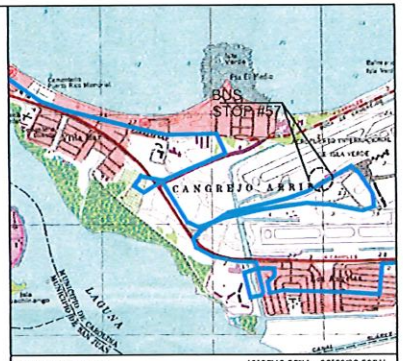
NOT TO SCALE

LEGEND:

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

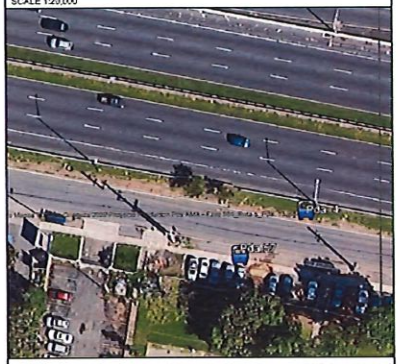
NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 RESERVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMSA 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 MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.61 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000

18°25'46.55"N , 65°59'35.58"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que corresponde, diseñe y/o preparé estos planos y las especificaciones, cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas, Reglamentadoras y Corporaciones Públicas con jurisdicción. Reconozco que cualquier violación total o fraccionaria de las leyes que se vean afectadas por responsabilidad, ya sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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PUERTO RICO
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LIC. 18-54PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #57

FROM SAN JUAN TO ITURREGUI AVENUE
BALDORIOTY DE CASTRO MARGINAL FRONT INTERSUITE CONDOMINIUM
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

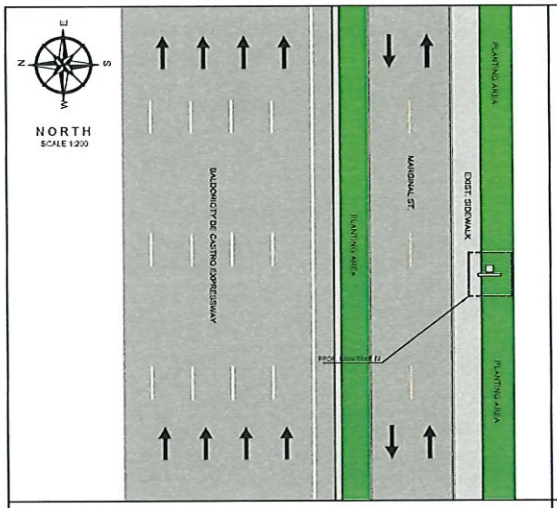
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.29	SHEET NO. 35 OF 88

ROUTE 5 | BUS STOP #58

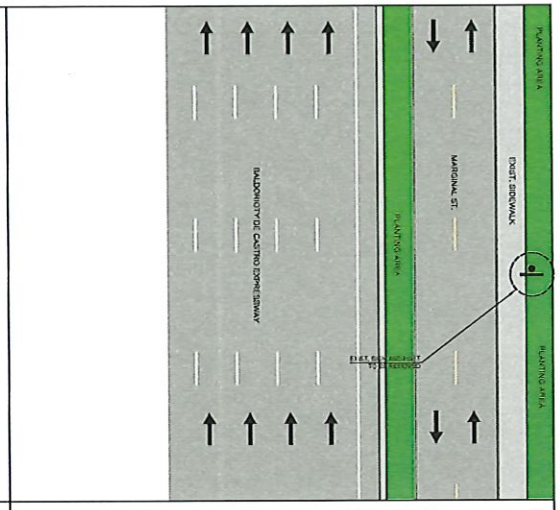
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

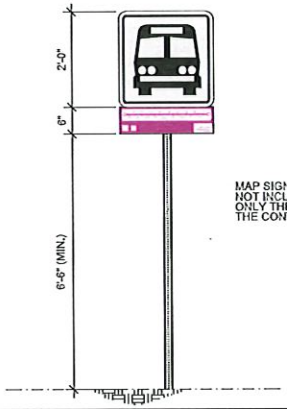


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#58



EXIST. CONDITIONS - ROUTE 5 | B.S.#58

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE IV

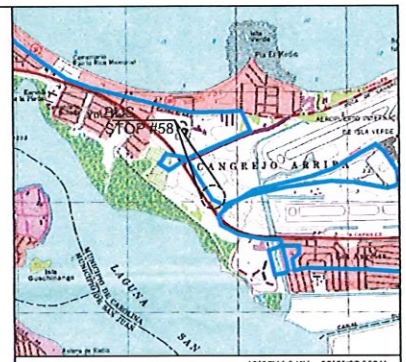
NOT TO SCALE

LEGEND:

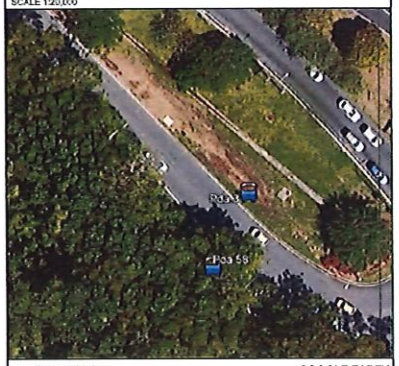
- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRIMA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMA PERSONNEL.
4. THE CONTRACTOR SHALL REVOVE 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 0.61 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA. REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000
18°25'41.04"N , 65°59'27.05"W



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

Yo, Hernan E. Lopez Baez, Ingeniero, Licencia 18-34, certifico que soy el profesional que conceptualizó, diseñó y/o preparó estos planos y las especificaciones, cumplen con las Disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción, Agencias de los Agencias, Juntas, Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier violación total o fabricación de los hechos que se vean y/o afecten por desconocimiento o por negligencia de mi parte, más aquellas imputables a otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y/o civil ante por la OGPe.

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HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18-SAFE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #58

FROM SAN JUAN TO ITURREGUI AVENUE
BALDORIOTY DE CASTRO MARGINAL BEFORE SANTANA AVENUE
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.30	SHEET NO. 36 OF 88

ROUTE 5 | BUS STOP #59

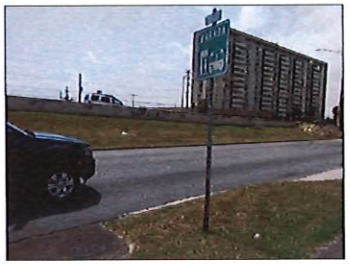
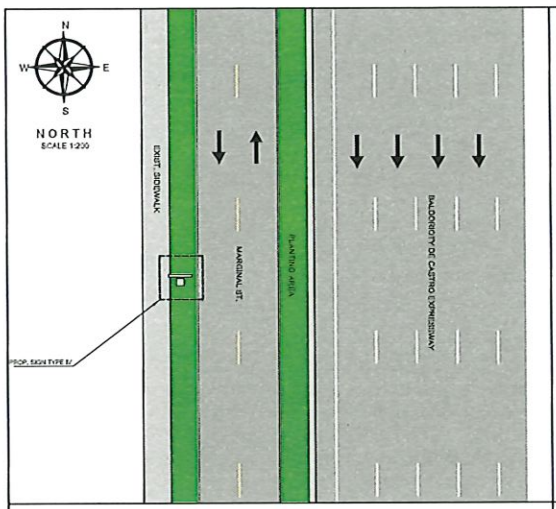


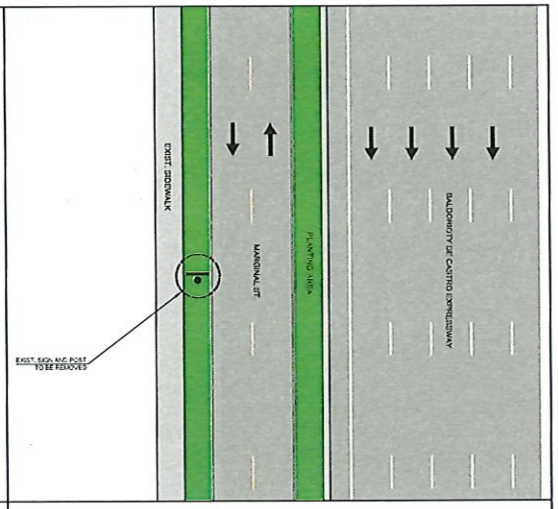
PHOTO - 1

PHOTO - 2

PHOTO - 3; PROPOSED SIGN LOCATION

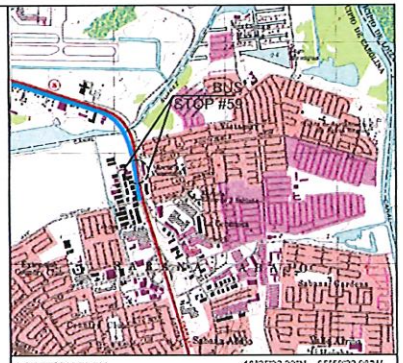


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#59



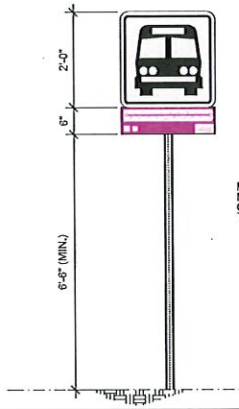
EXIST. CONDITIONS - ROUTE 5 | B.S.#59

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'32.33"N , 65°59'22.08"W

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



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
- PRIMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMBA 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 0.60 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA. REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que certificaron, diseñó y/o preparó estos planos y las especificaciones completas adjuntas. También certifico que en dichos diseños y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier incumplimiento o falsificación de los hechos que se hayan producido por desconocimiento o por negligencia de mi parte por mí o de agentes o empleados a por otras personas por mi consultadas, me hacen responsable de cualquier acción judicial y civil ante la ley OCPR.

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

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18-54PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #59

FROM SAN JUAN TO ITURREGUI AVENUE
BALDORIOTY DE CASTRO MARGINAL FRONT FUENTE AGUA VIVA CHURCH
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

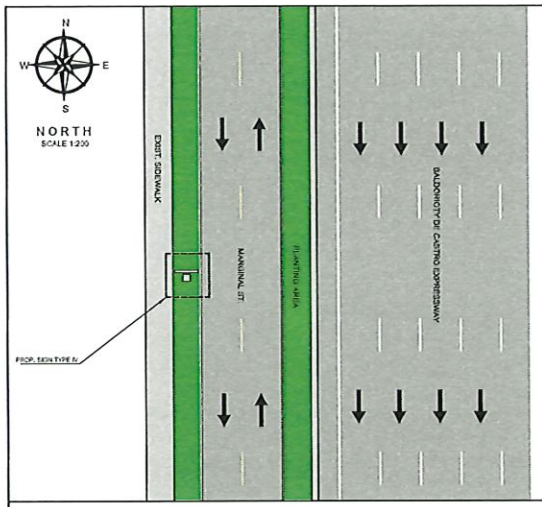
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.31	SHEET NO. 37 OF 88

ROUTE 5 | BUS STOP #60

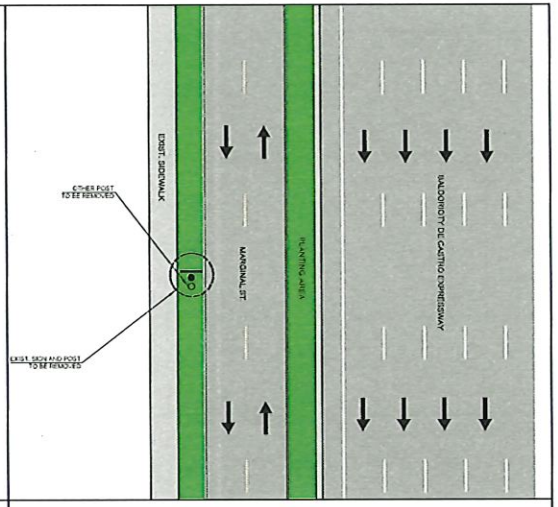
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

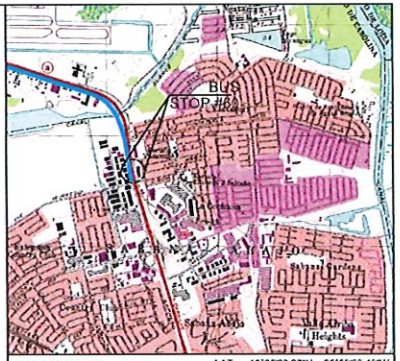


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#60



EXIST. CONDITIONS - ROUTE 5 | B.S.#60

2.5 0 5 15
SCALE 1:200

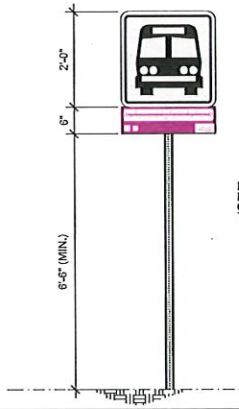


LOCATION PLAN
SCALE 1:20,000

LAT: 18°25'23.27"N , 65°59'20.40"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO



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
- PRIMA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL REMOVE THE ANOTHER EXISTING POST WITH-OUT SIGN, REFER TO PHOTO #2.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.61 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones, conforme a ley. Además, certifico que el diseño que aquí se refiere y las especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación hecha a la(s) planta(s) de la(s) obra(s) que se haya proyectado por desconocimiento, por negligencia, o sin por mi, mis agentes o empleados o por otra persona con mi consentimiento, me hacen responsable de cualquier acción judicial y/o civil iniciada por la OGPe.

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

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18-54PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #60

FROM SAN JUAN TO ITURREGUI AVENUE
BALDORIOTY DE CASTRO MARGINAL BEFORE ITURREGUI AVENUE
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.32	SHEET NO. 38 OF 88

ROUTE 5 | BUS STOP #1

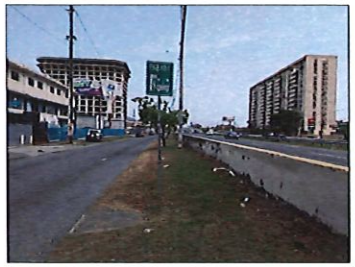


PHOTO - 1

PHOTO - 2

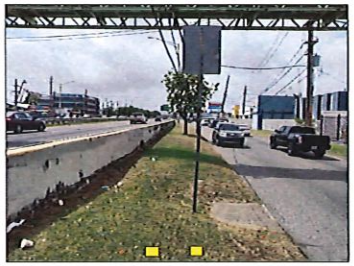
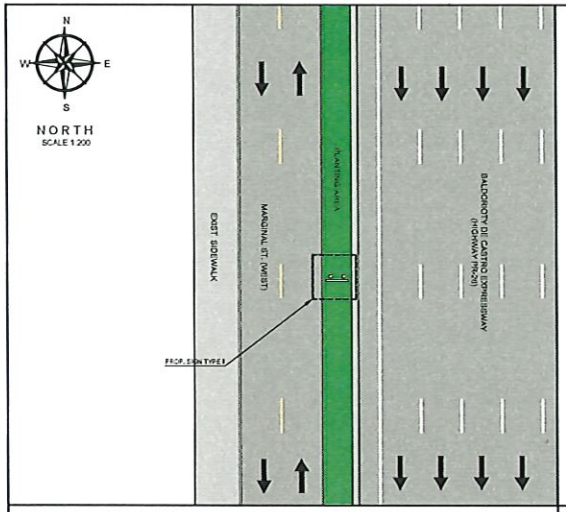
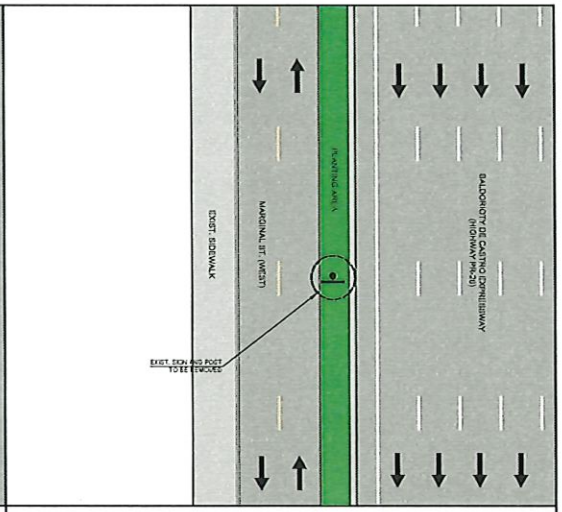


PHOTO - 3: PROPOSED SIGN LOCATION

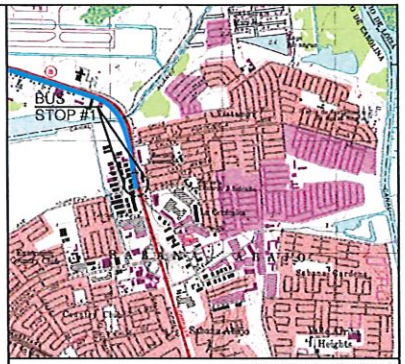


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#1



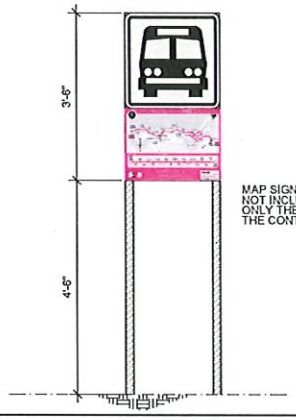
EXIST. CONDITIONS - ROUTE 5 | B.S.#1

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'22.08"N , 65°59'19.82"W

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



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

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 EXCAVATION, DEMOLITION AND PIPES 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 REMOVES THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA 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 MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.61 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones completamente. También certifico que enfiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Reconozco que cualquier deficiencia leve o falta de acuerdo que no haya producido por desconocimiento o por negligencia yo por mi, mis agentes o empleados, o por otras personas con mi conocimiento me hacer responsable de cualquier acción judicial y disciplinaria por la DCPR.

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Gurabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #1

FROM ITURREGUI AVENUE TO SAN JUAN
BALDORIOTY DE CASTRO AVE. (HIGHWAY PR-26) - MARGINAL ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.01	SHEET NO.: 39 OF 88

ROUTE 5 | BUS STOP #2

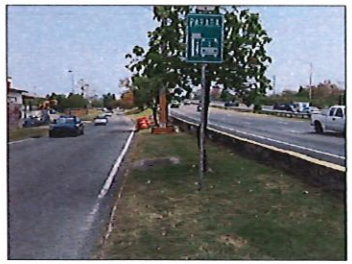
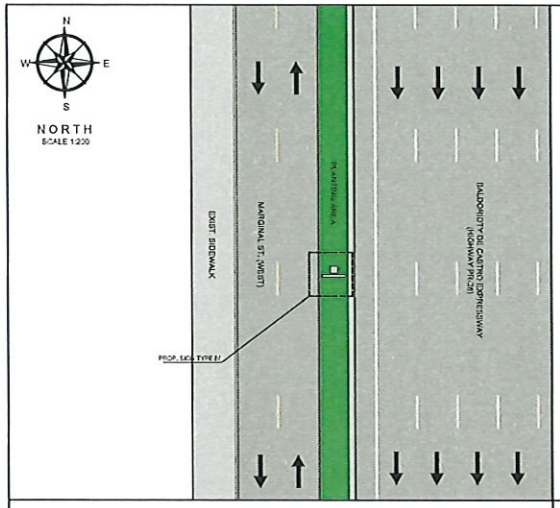


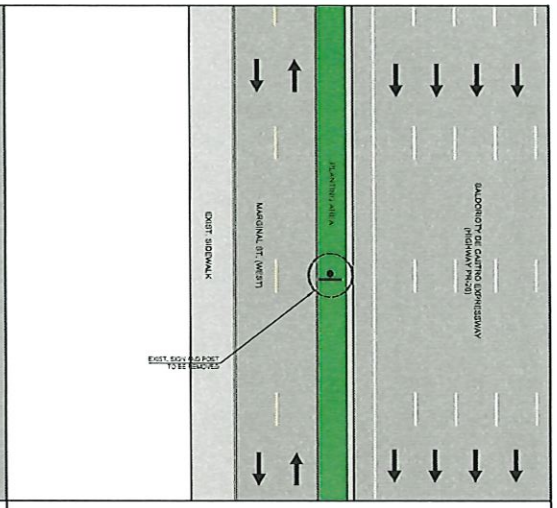
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION



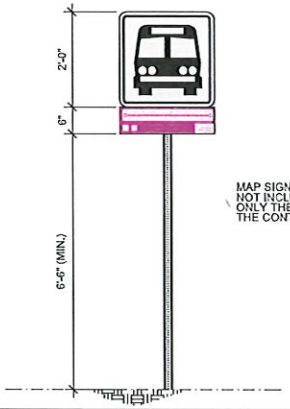
PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#2



EXIST. CONDITIONS - ROUTE 5 | B.S.#2

2.5 0 5 15

SCALE 1:200



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
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
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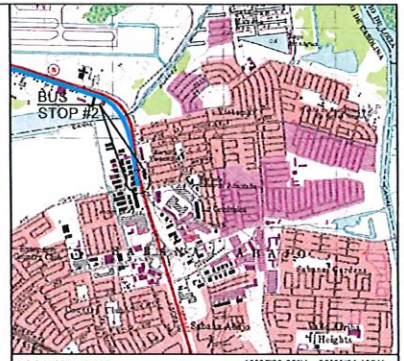
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.



LOCATION PLAN 18°25'29.82"N , 65°59'21.16"W

SCALE 1:20,000

AERIAL PHOTO GOOGLE EARTH

SCALE 1:1,000 VERSION: 7.3.4.8542 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18 [illegible] certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias, Juntas, Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier deficiencia falsa o falsificación de los hechos que se haya producido por desconocimiento, por negligencia, o no por mí, me expone a complicidad, y por otra persona con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria ante la OGPe.

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

HERNAN E. LOPEZ BAEZ
INGENIERO
LIC. 18 [illegible]
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18 [illegible]

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #2

FROM ITURREGUI AVENUE TO SAN JUAN
BALDORIOTY DE CASTRO MARGINAL OPPOSITE SIDE OF
FUENTE AGUA VIVA CHURCH MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.02	SHEET NO. 40 OF 88

ROUTE 5 | BUS STOP #3

PHOTO - 1

PHOTO - 2

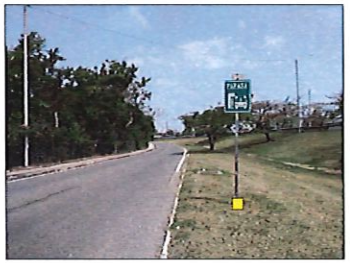
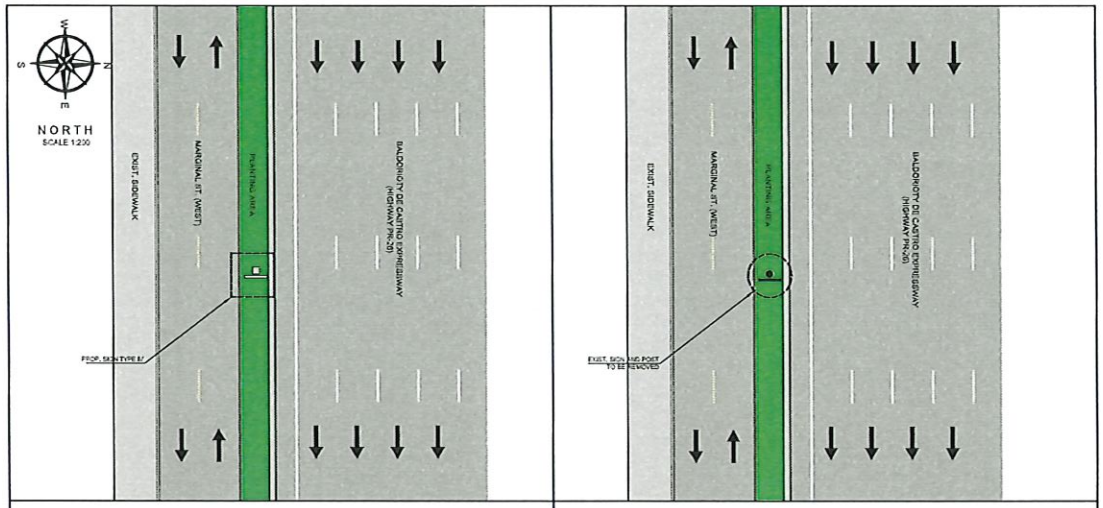


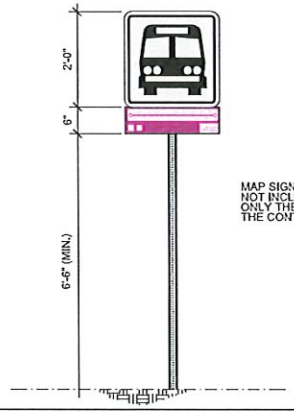
PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#3

EXIST. CONDITIONS - ROUTE 5 | B.S.#3

2.5 0 5 15
SCALE 1:200



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
- PRMBA EXCLUSIVE LANE (MIA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERS PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
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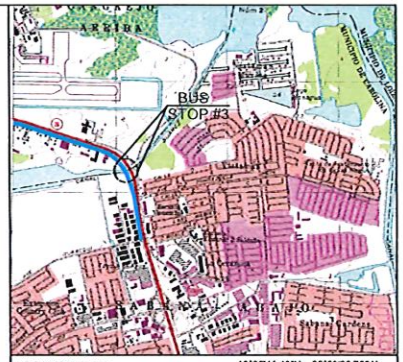
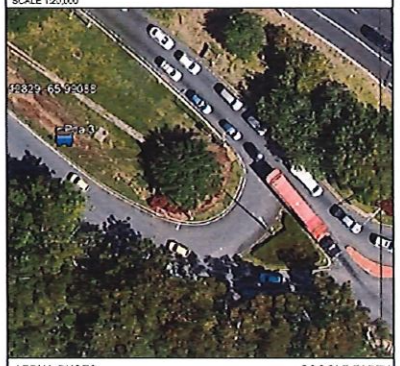
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA. REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000

18°25'41.45"N , 65°59'26.75"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia N-24, certifico que soy el profesional que certificaré, diseñé y preparé estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de la Agencia, Junta, Reglamento interno o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados o por otras personas con el conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
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HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
N-24

HERNAN E. LOPEZ BAEZ, FE MEM
UC-18 SAFE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #3

FROM ITURREGUI AVENUE TO SAN JUAN
BALDORIOTY DE CASTRO MARGINAL AFTER SANTANA AVENUE
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.03	SHEET NO. 41 OF 88

ROUTE 5 | BUS STOP #4

PHOTO - 1

PHOTO - 2

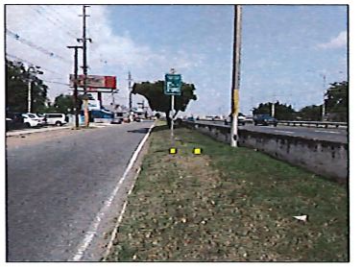
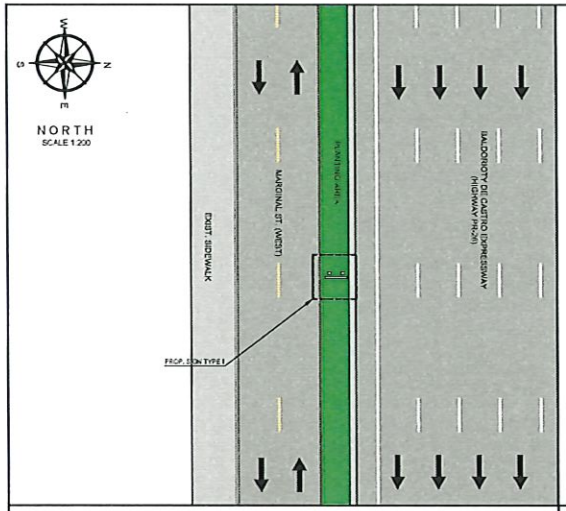
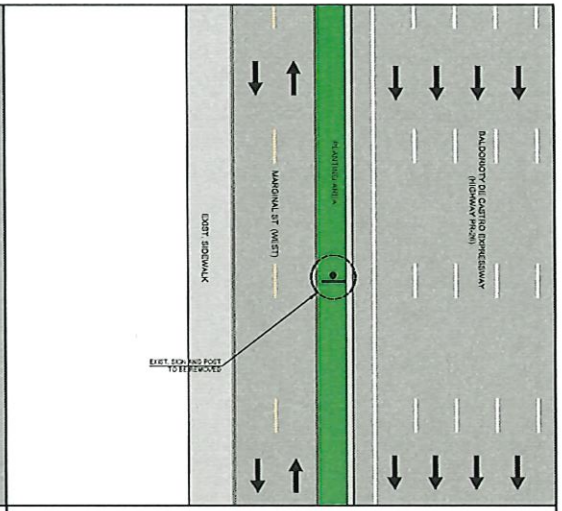


PHOTO - 3: PROPOSED SIGN LOCATION

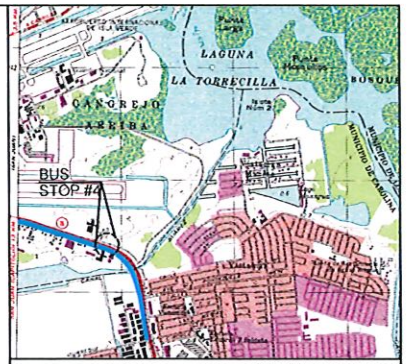


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#4



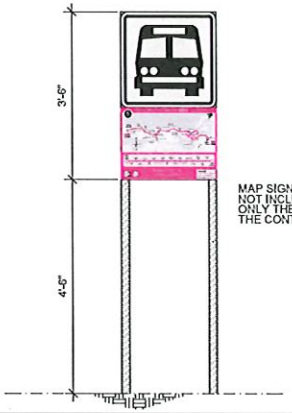
EXIST. CONDITIONS - ROUTE 5 | B.S.#4

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'46.80"N , 65°59'36.06"W

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



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

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 (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES 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.
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Yo, Hernan E. López Báez, ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones completamente. También certifico que enfatiza que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias. Asimismo Reglamentarias o Corporaciones Públicas con jurisdicción. Renuncio que cualquier deficiencia falta o falsificación de los hechos que se haya producido por desconocimiento o por negligencia de mi por mi, mis agentes o empleados o por otras personas con mi conocimiento me hacen responsable de cualquier acción jurídica y disciplinaria por la OGPe.

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

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #4

FROM ITURREGUI AVENUE TO SAN JUAN
BALDORIOTY DE CASTRO MARGINAL OPPOSITE SIDE OF
INTERSUITE CONDOMINIUM MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

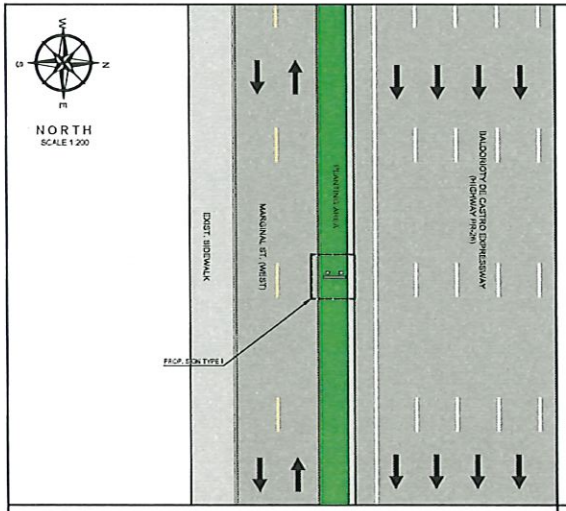
REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAWN BY ABZ
DWG. TYPE TS-2.04	SHEET NO. 42 OF 88

ROUTE 5 | BUS STOP #5

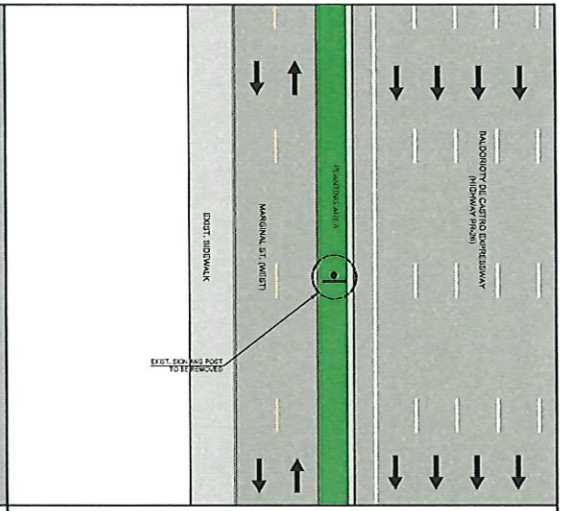
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

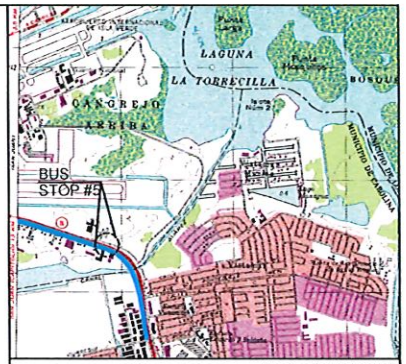


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#5

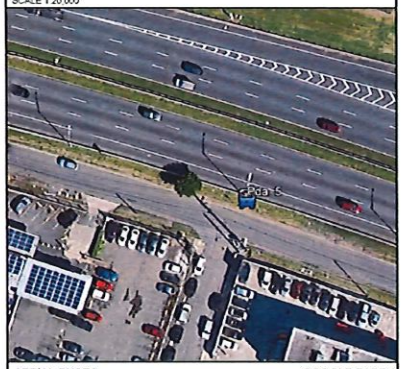


EXIST. CONDITIONS - ROUTE 5 | B.S.#5

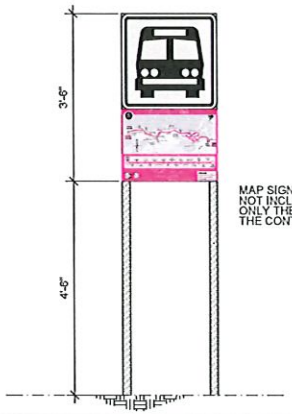
2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°25'52.00"N , 65°59'53.63"W



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



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

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 (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING GROUND 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. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que certificamos diseñe y prepare estos planos y las especificaciones complementarias. También certifico que enfatiza que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias. Estos Reglamentos/Códigos o Disposiciones Públicas son jurídicas. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de su objeto: acción judicial y disciplinaria por la ECPA.

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

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #5

FROM ITURREGUI AVENUE TO SAN JUAN
BALDORIOTY DE CASTRO MARGINAL OPPOSITE SIDE OF JOAQUINA ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

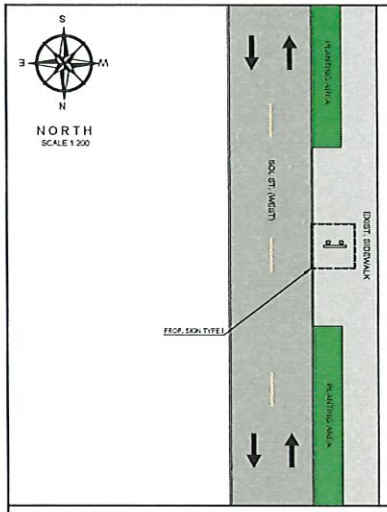
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.05	SHEET NO.: 43 OF 88

ROUTE 5 | BUS STOP #6

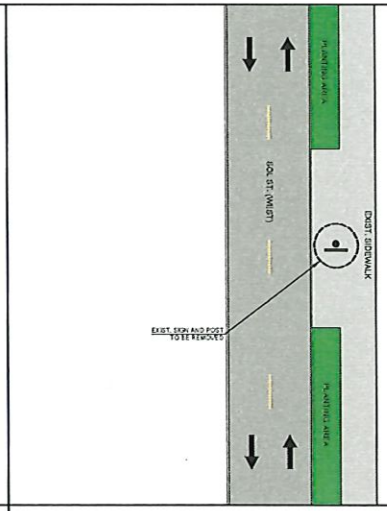
PHOTO - 1

PHOTO - 2

PHOTO - 3. PROPOSED SIGN LOCATION

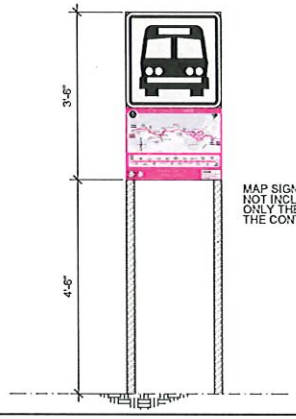


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#6



EXIST. CONDITIONS - ROUTE 5 | B.S.#6

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE I

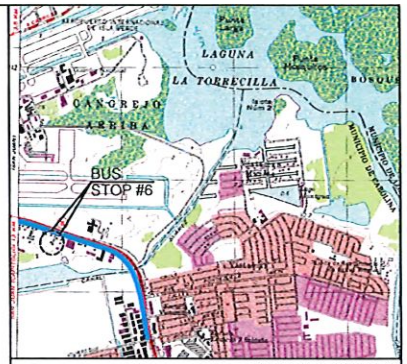
NOT TO SCALE

LEGEND

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

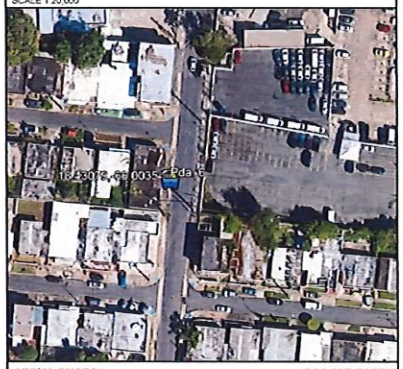
NOTES

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND FEES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMBA 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 INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000

18°25'50.83"N , 66° 0'12.74"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones correspondientes. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Renuncio que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mí, mis agentes o empleados, o por otras personas por mí conocimiento me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ
INGENIERO
LICENCIADO
PUERTO RICO

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #6

FROM ITURREGUI AVENUE TO SAN JUAN
SOL ST. BEFORE PISCIS ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

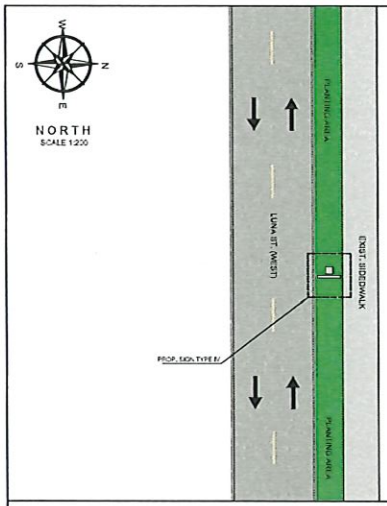
REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAWN BY ABZ
DWG. TYPE TS-2.06	SHEET NO. 44 OF 88

ROUTE 5 | BUS STOP #7

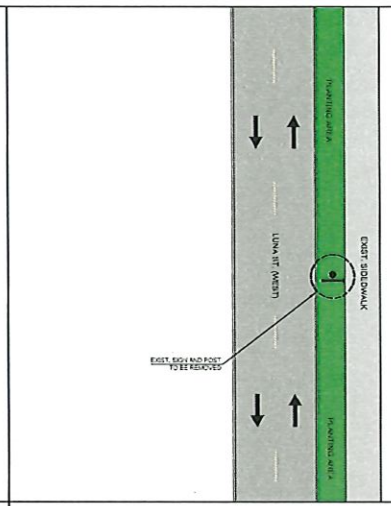
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

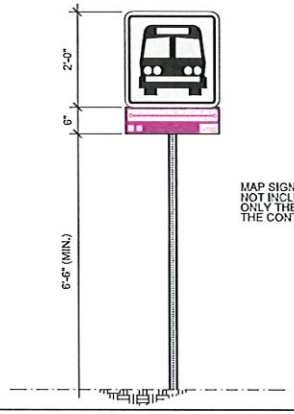


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#7



EXIST. CONDITIONS - ROUTE 5 | B.S.#7

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE IV

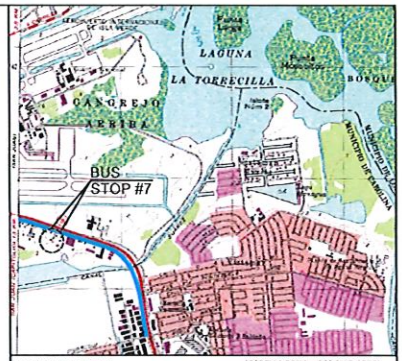
NOT TO SCALE

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 EXCAVATION, DEMOLITION AND PERS 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMSA 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 0.61 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000

18°25'44.52"N , 66° 0'15.15"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia N° 34, certifico que soy el profesional que confeccionó, diseñó y/o preparó esos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier indicación falsa o falsificación de los hechos que se vierta o aduzca por desconocimiento o por negligencia, o en su por mi, más agresiva o empleada o por otra persona con mi conocimiento, me hacen responsable de cualquier acción judicial y dictámenes por la OGPe.

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

HERNAN E. LOPEZ BAEZ
Ingeniero
LICENCIADO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, FE MEM
LIC. 18 SAPE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #7

FROM ITURREGUI AVENUE TO SAN JUAN
LUNA ST. AFTER SOL ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

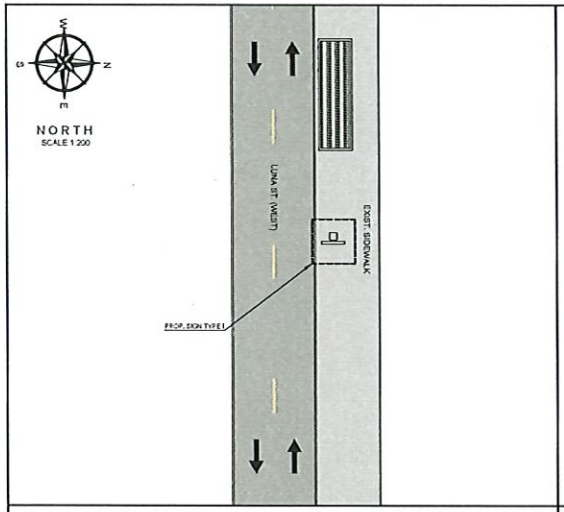
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.07	SHEET NO. 45 OF 88

ROUTE 5 | BUS STOP #8

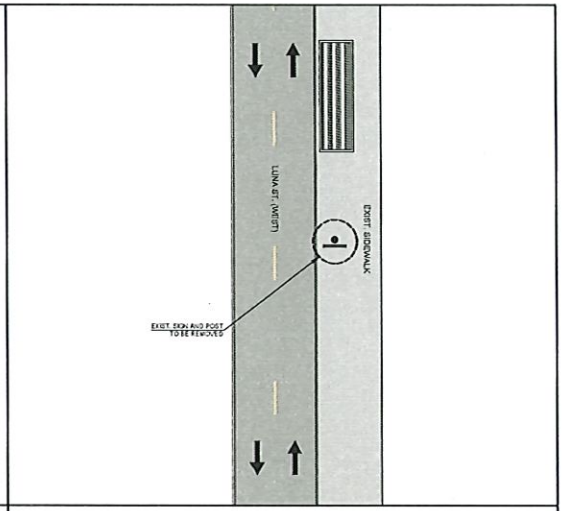
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

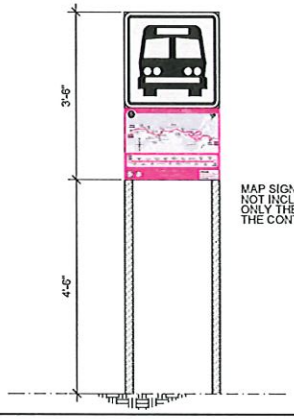


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#8



EXIST. CONDITIONS - ROUTE 5 | B.S.#8

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE I

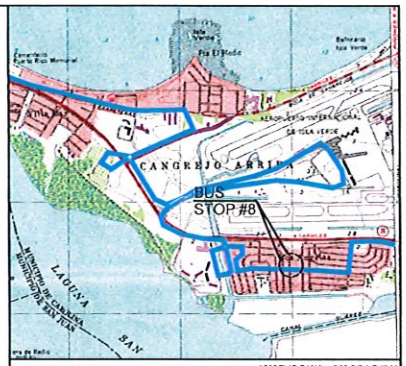
NOT TO SCALE

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 EXCAVATION, DEMOLITION AND FIRES 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 REMOVES THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA 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 DURB SHALL BE 2.50 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000
18°25'45.51"N , 66° 0'24.54"W

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

Yo, Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que certificamos, diseña y prepara estos planos y las especificaciones aquí mencionadas. También certifico que enfiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Renuncio que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mi, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la SJPs.

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

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #8

FROM ITURREGUI AVENUE TO SAN JUAN
LUNA ST. INT. PEGASO ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

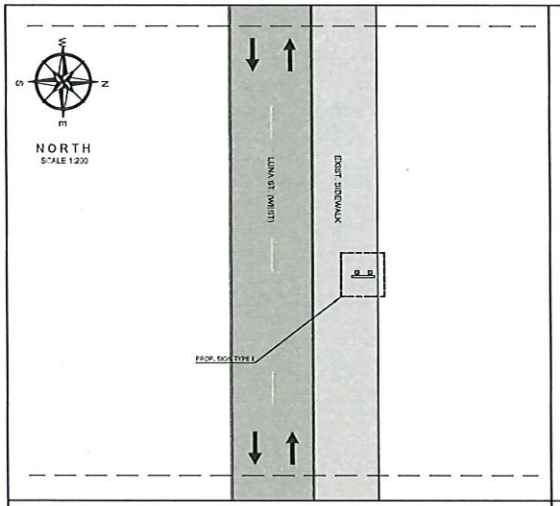
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.08	SHEET NO. 46 OF 88

ROUTE 5 | BUS STOP #9

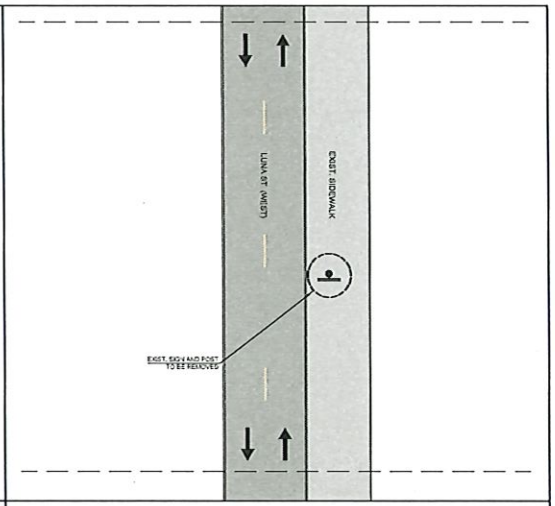
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

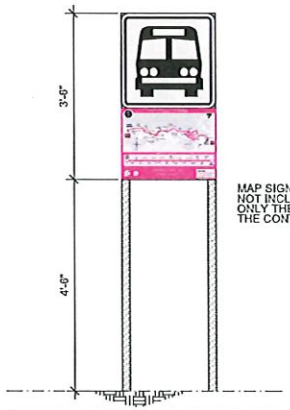


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#9



EXIST. CONDITIONS - ROUTE 5 | B.S.#9

2.5 0 5 15
SCALE 1:200



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

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:

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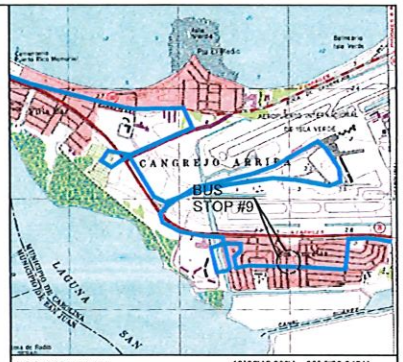
2. THE CONTRACTOR SHALL CONSULT THE PROJECT ENGINEER BEFORE THE INSTALLATION OF EACH STRUCTURE.
3. THE CONTRACTOR SHALL REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK NEXT TO THE WALL BRIDGE.



LOCATION PLAN
SCALE 1:20,000

18°25'45.83"N , 65° 0'28.84"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que certificaremos, diseño y/o proceso estas planos y las especificaciones completas aquí. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de los Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier violación total o fraccionaria de los hechos que se vayan a realizar por desconocimiento, o por negligencia, o por por mi, mis agentes o empleados, o por otra persona por mi considerada, me hacen responsable de cualquier acción judicial y/o multa que la SOPU.

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

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18-54PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #9

FROM ITURREGUI AVENUE TO SAN JUAN
LUNA ST. BEFORE ARIES ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.09	SHEET NO. 47 OF 88

ROUTE 5 | BUS STOP #10

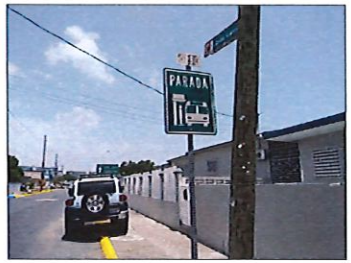
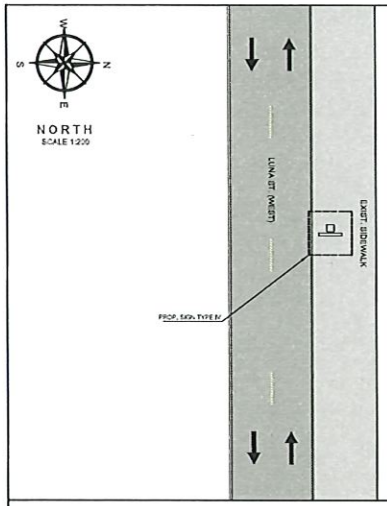


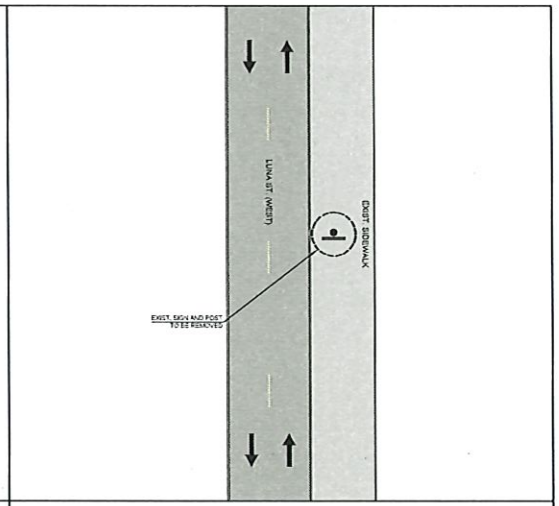
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

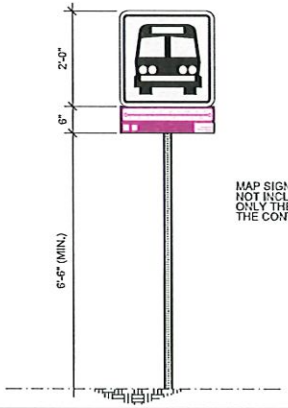


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#10



EXIST. CONDITIONS - ROUTE 5 | B.S.#10

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE IV

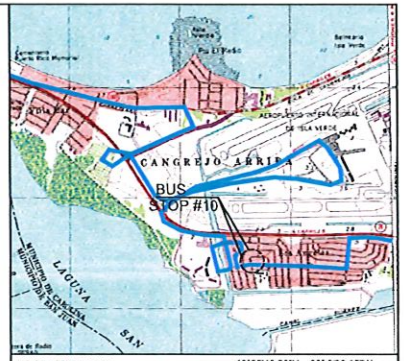
NOT TO SCALE

LEGEND:

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

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND FREE 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA 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 0.61 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA. REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000

18°25'46.26"N , 66° 0'36.15"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18184, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier omisión, falta o malfuncción de los hechos que se basa lo provisto por desconocimiento, o por negligencia, ya sea por mí, mis agentes o empleados o por otras personas por mí consultadas, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18184PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #10

FROM ITURREGUI AVENUE TO SAN JUAN
LUNA ST. INT. ASTRAL ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.10	SHEET NO. 48 OF 88

ROUTE 5 | BUS STOP #11

PHOTO - 1

PHOTO - 2

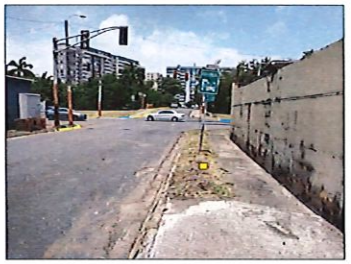
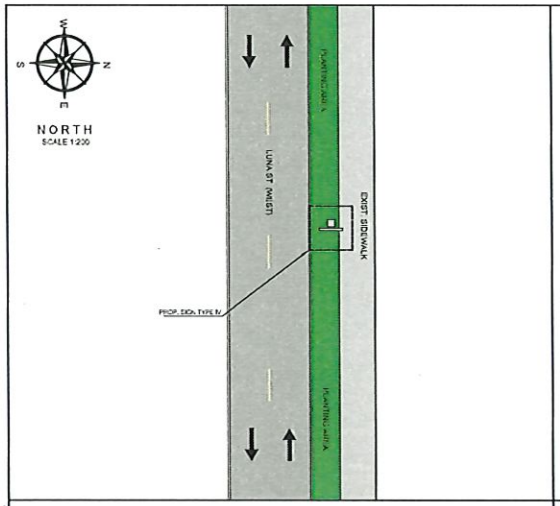
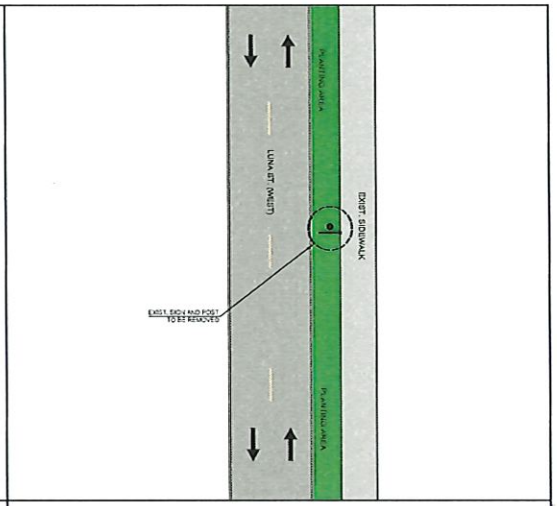


PHOTO - 3: PROPOSED SIGN LOCATION

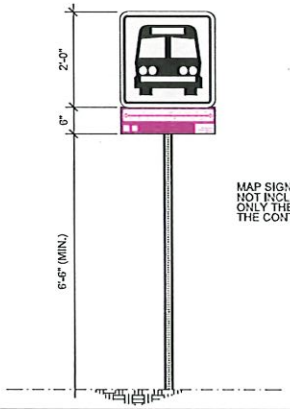


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#11



EXIST. CONDITIONS - ROUTE 5 | B.S.#11

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE IV

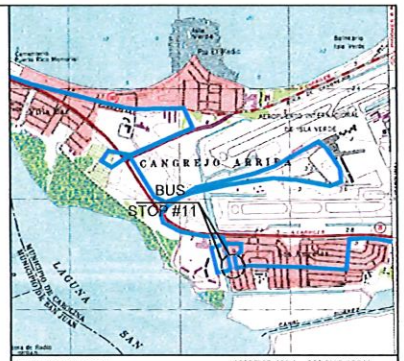
NOT TO SCALE

LEGEND:

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

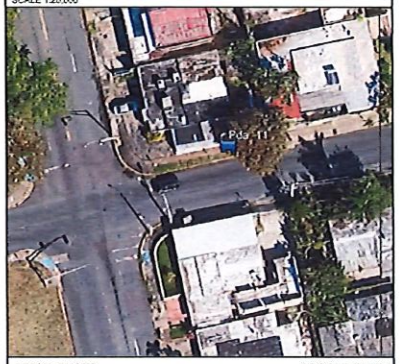
NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA 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 0.61 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA. REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000

18°25'45.45"N , 65° 0'48.12"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18154, certifico que soy el profesional que certificaré, diseño y/o preparé estos planos y las especificaciones, cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción, Normas de los Agencias, Juntas, Reglamentaciones o Corporaciones Públicas por jurisdicción. Reconozco que cualquier violación total o fallificación de los hechos que se haya producido por desconocimiento, o por negligencia, ya sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE VEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #11

FROM ITURREGUI AVENUE TO SAN JUAN
LUNA ST. INT. COSMOS ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

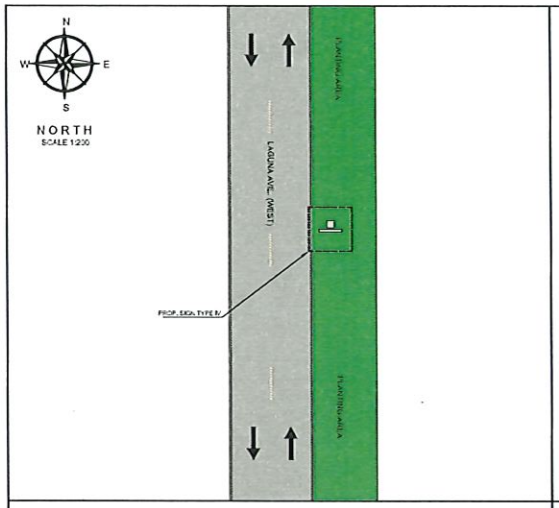
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.11	SHEET NO. 49 OF 88

ROUTE 5 | BUS STOP #12

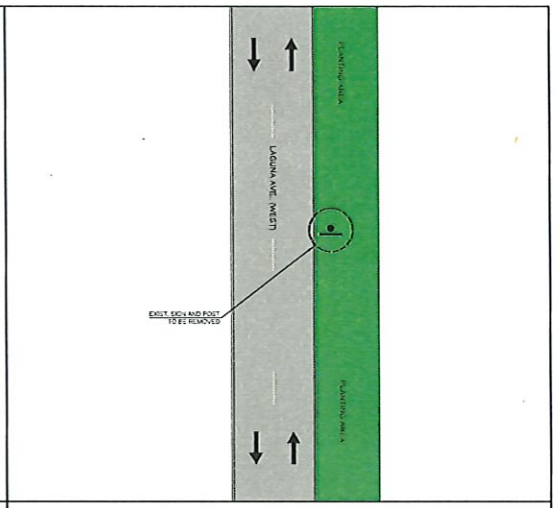
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION



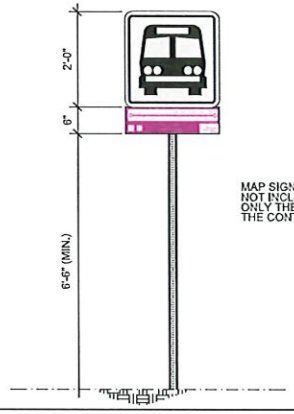
PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#12



EXIST. CONDITIONS - ROUTE 5 | B.S.#12

2.5 0 5 15

SCALE 1:200



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

PROPOSED SIGN TYPE IV

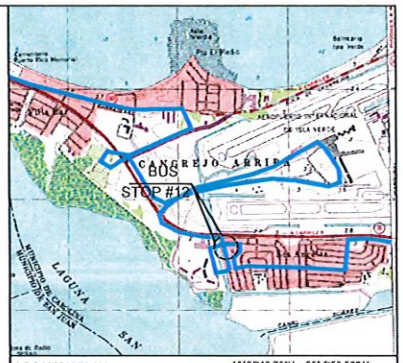
NOT TO SCALE

LEGEND:

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

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES 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 REMOVES THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL CUT THE BRANCHES.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 1.07 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.



LOCATION PLAN

SCALE 1:20,000

18°25'48.78"N , 65° 0'53.67"W

AERIAL PHOTO

SCALE 1:1,000

GOOGLE EARTH

VERSION: 7.3.4.8542 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia N.Ú. certifico que soy el profesional que corresponde, diseño y/o preparo estos planos y las especificaciones, cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de las Agencias, Juntas, Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación total o fallificación de los hechos que se vean plasmados por desconocimiento, por negligencia, o no por mi, más agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier análisis, falsedad y deficiencia que la DOPA.

ENZO Engineering, psc.

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

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, FE MEM
LIC. 18 54FE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #12

FROM ITURREGUI AVENUE TO SAN JUAN
LAGUNA AVENUE BEFORE ACUARIO ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

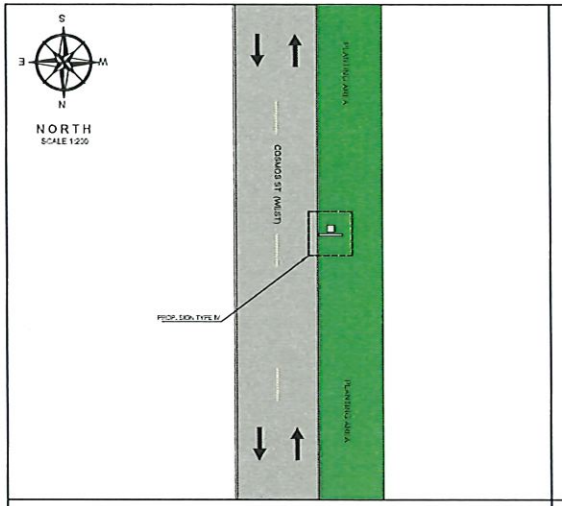
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.12	SHEET NO. 50 OF 88

ROUTE 5 | BUS STOP #13

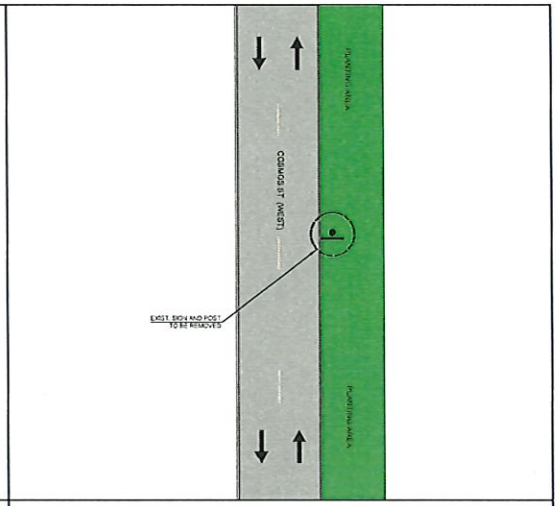
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

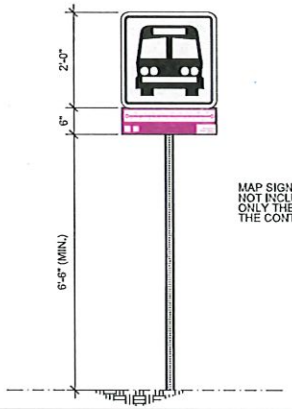


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#13



EXIST. CONDITIONS - ROUTE 5 | B.S.#13

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE IV

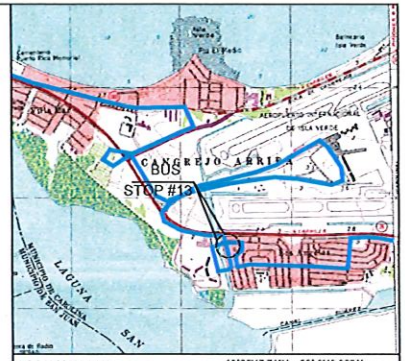
NOT TO SCALE

LEGEND:

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

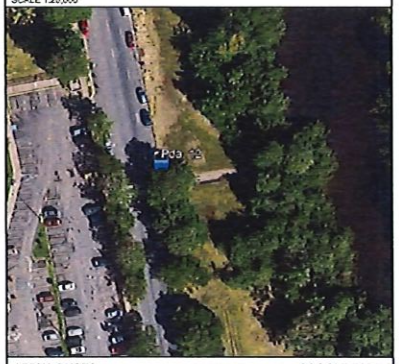
NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND FIRES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA 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 0.61 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000

18°25'47.71"N , 66° 0'49.92"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, Recinto 19 Sin, certifico que soy el profesional que certificó, diseñó y/o preparó esos planos y las especificaciones, conforme sentia. Certifico que el diseño que dicho planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier omisión falsa o falsificación de los hechos que se haya producido por desconocimiento, o por negligencia, o mal por mi, mi agente o empleados o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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HERNAN E. LOPEZ BAEZ
INGENIERO HERNDOO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18SAPE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #13

FROM ITURREGUI AVENUE TO SAN JUAN
COSMOS ST. BEFORE LUNA ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

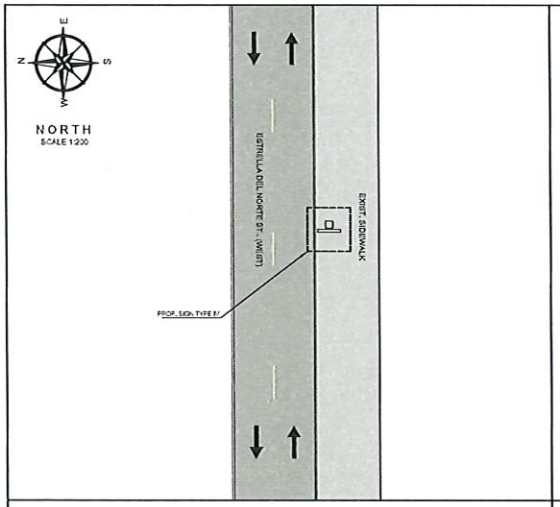
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.13	SHEET NO. 51 OF 88

ROUTE 5 | BUS STOP #14

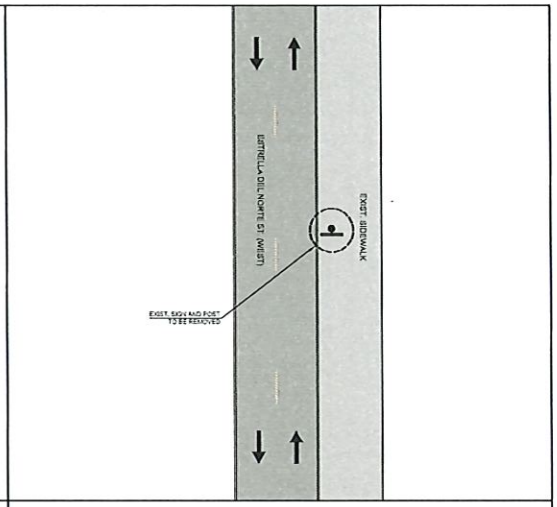
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

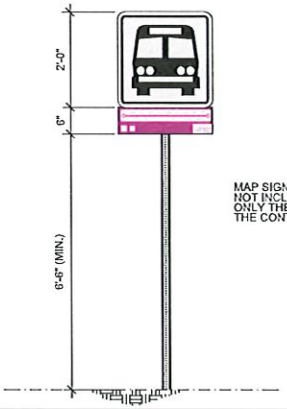


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#14



EXIST. CONDITIONS - ROUTE 5 | B.S.#14

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE IV

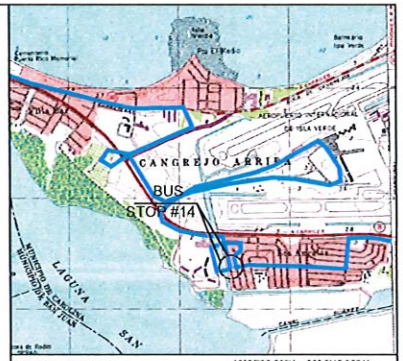
NOT TO SCALE

LEGEND:

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

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER 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 0.61 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000

18°25'38.29"N , 65° 0'45.95"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia N°31, certifico que soy el profesional que conceptualizó, diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que el diseño que diseñe, planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras y Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mis agentes o empleados, o por otra persona con mi conocimiento, me hacer responsable de cualquier acción judicial y disciplinaria por la OGPe.

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

HERNAN E. LOPEZ BAEZ
INGENIERO
LICENCIADO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 31-54PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #14

FROM ITURREGUI AVENUE TO SAN JUAN
ESTRELLA DEL NORTE ST. INT. ANDRÓMEDA ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

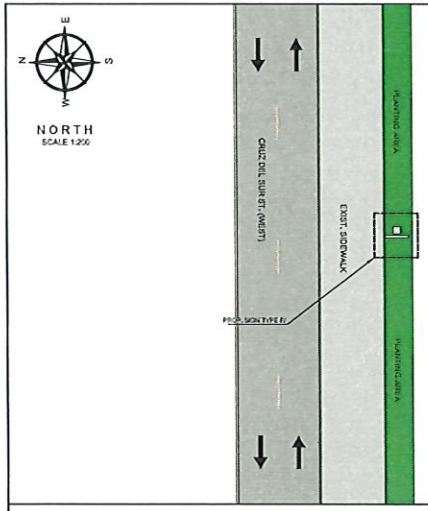
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.14	SHEET NO. 52 OF 68

ROUTE 5 | BUS STOP #15

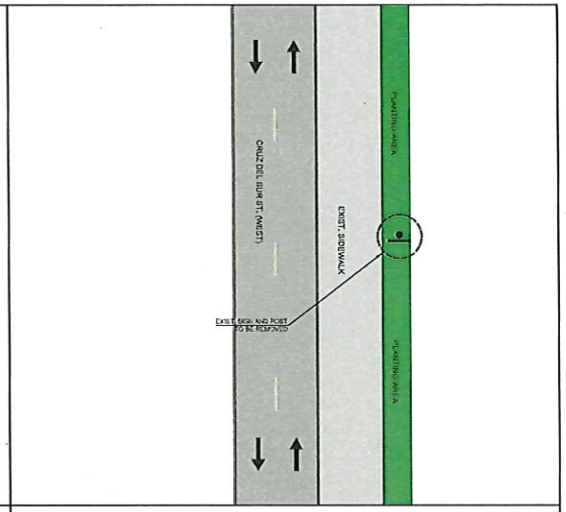
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

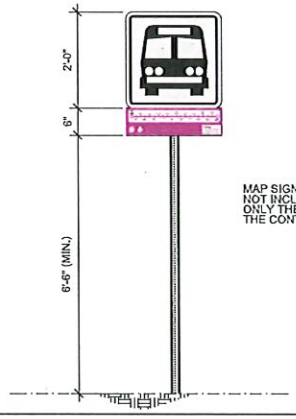


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#15



EXIST. CONDITIONS - ROUTE 5 | B.S.#15

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE IV

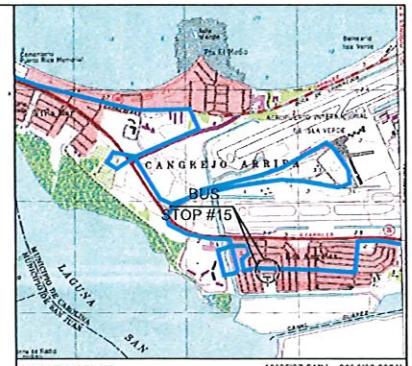
NOT TO SCALE

LEGEND:

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

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA 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 0.60 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000
18°25'37.51"N , 66° 0'39.29"W

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

Yo Hernan E. Lopez Baez Ingeniero Licencia 18184 certifico que soy el profesional que confeccionó diseño y preparó estos planos y las especificaciones correspondientes. Certifico que el diseño que aparece en estos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción vigentes de las Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier inobservancia, falsa o falsificación de los hechos que se hace constatar por disposición de ley o por negligencia de mi parte, me hacen responsable de cualquier acción judicial y daños que pueda ocurrir.

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

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. #18184

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #15

FROM ITURREGUI AVENUE TO SAN JUAN
CRUZ DEL SUR ST. BEFORE ASTRAL ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 190349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.15	SHEET NO. 53 OF 88

ROUTE 5 | BUS STOP #16

PHOTO - 1

PHOTO - 2

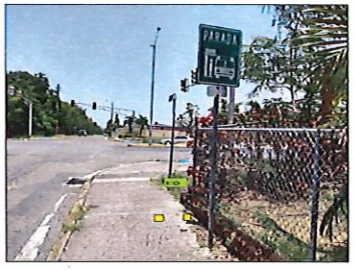
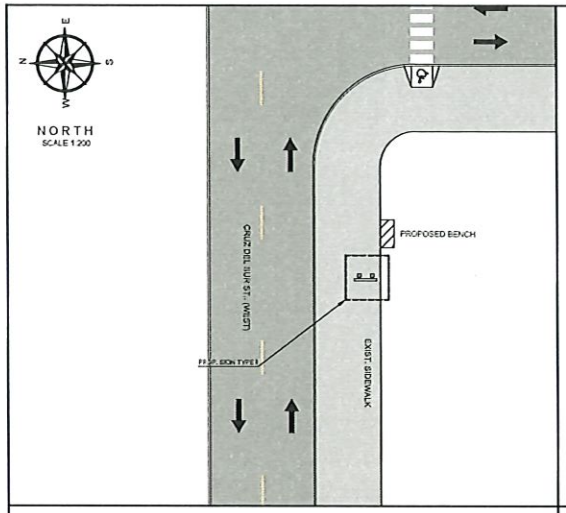
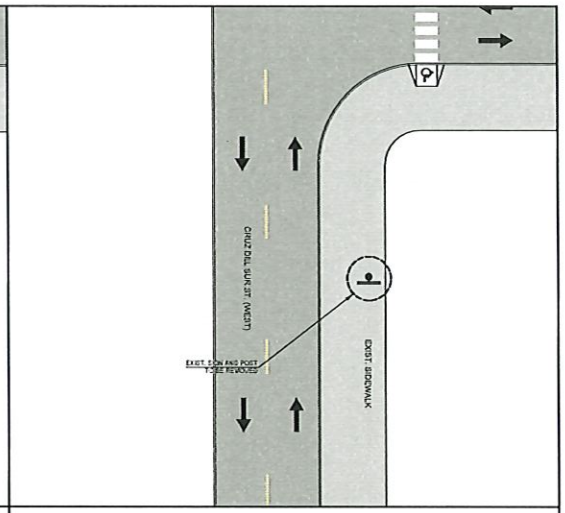


PHOTO - 3: PROPOSED SIGN LOCATION

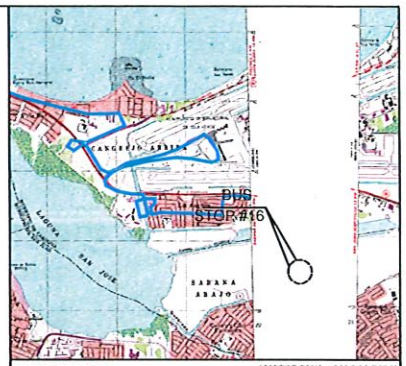


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#16



EXIST. CONDITIONS - ROUTE 5 | B.S.#16

2.5 0 5 15
SCALE 1:200

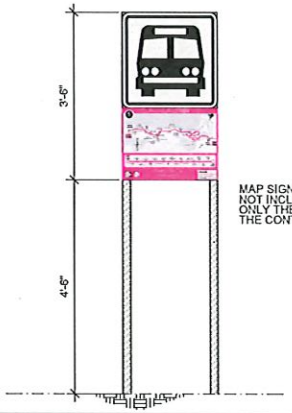


LOCATION PLAN
SCALE 1:20 000

18°25'37.53"N , 66° 0'29.76"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION 7.3.4.8642 PRO



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

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
- PROPOSED BENCH

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED BENCH IN THE PLANTING AREA.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 2.50 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que certificamos diseña y prepara estos planos y las especificaciones completamente. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Renuncio que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia por mi o por mi agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #16

FROM ITURREGUI AVENUE TO SAN JUAN
CRUZ DEL SUR ST. INT. LOS ÁNGELES ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAWN BY ABZ
DWG. TYPE TS-2.16	SHEET NO. 54 OF 88

ROUTE 5 | BUS STOP #33

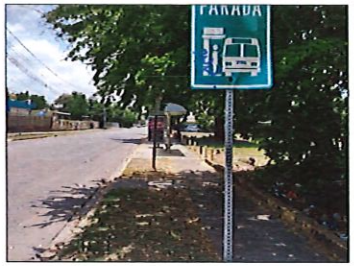
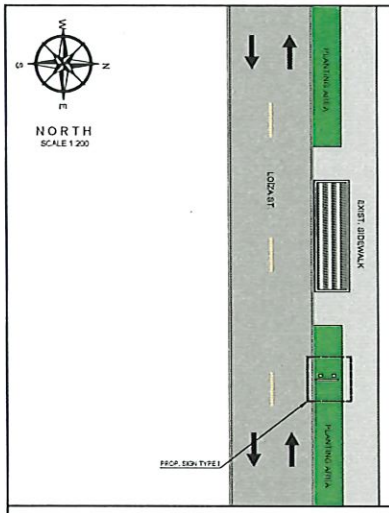


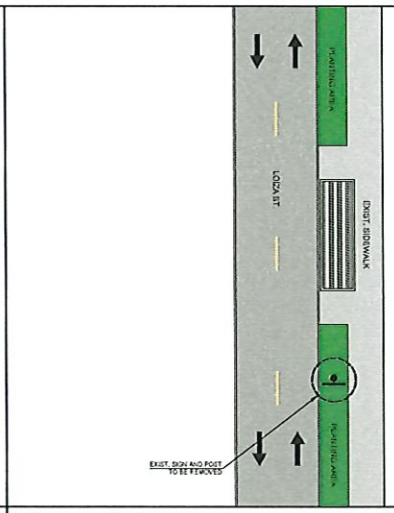
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

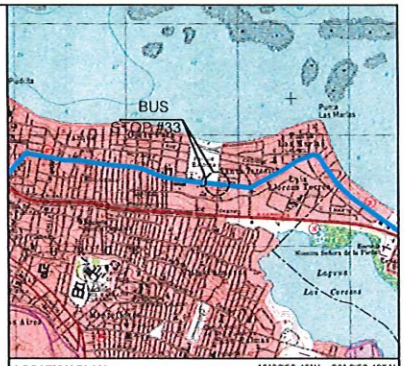


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#33



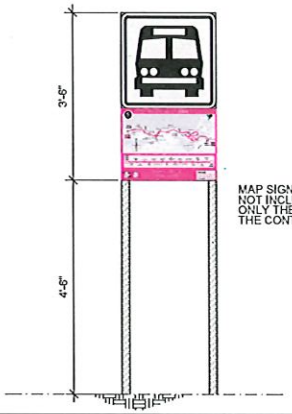
EXIST. CONDITIONS - ROUTE 5 | B.S.#33

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°26'58.43"N , 66° 2'53.40"W

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



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

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

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

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #33

FROM ITURREGUI AVENUE TO SAN JUAN
LOÍZA ST. AFTER LAS AMÉRICAS AVENUE
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

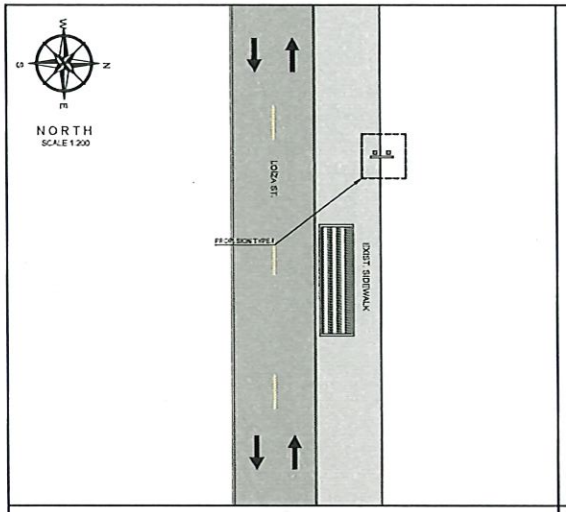
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAWN BY: ABZ
DWG. TYPE: TS-2.17	SHEET NO. 55 OF 88

ROUTE 5 | BUS STOP #34

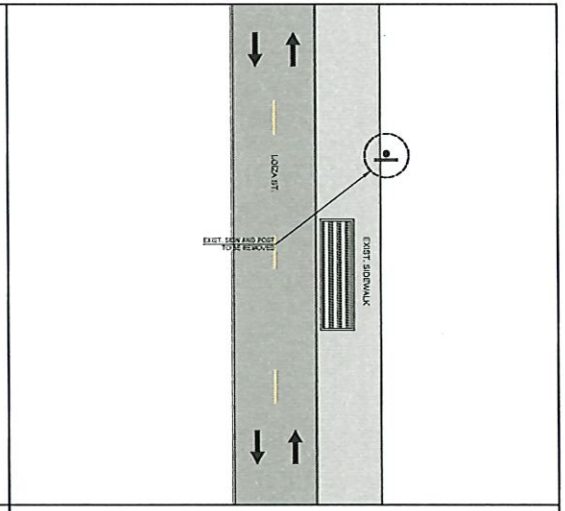
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

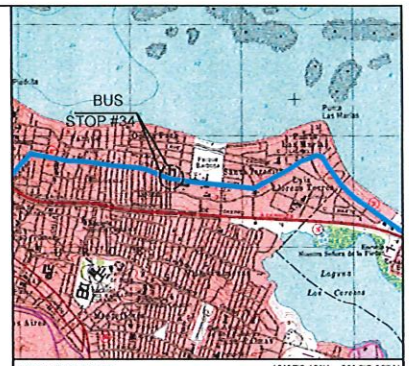


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#34



EXIST. CONDITIONS - ROUTE 5 | B.S.#34

2.5 0 5 15
SCALE 1:200

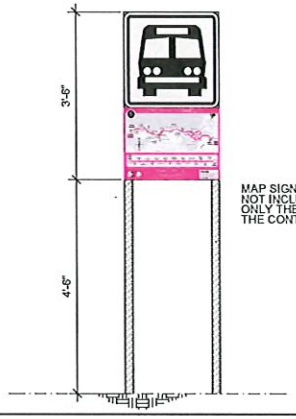


LOCATION PLAN
SCALE 1:20,000

18°27'0.10"N , 66° 3'5.66"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION 7.3.4.8642 PRO



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

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:

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3. THE CONTRACTOR SHALL REMOVES THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA 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 OUTER SHALL BE 2.50 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN BETWEEN THE SIDEWALK AND PLANTING AREA, REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones completamente. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia por mi parte, más agentes o empleados, o por otras personas por mi conocimiento, me hacen responsable de adquirir acción judicial y disciplinaria por la DOPR.

ENZO Engineering, psc.
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Guaraba, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #34

FROM ITURREGUI AVENUE TO SAN JUAN
LOÍZA ST. AFTER RAMPA DEL ALMIRANTE ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

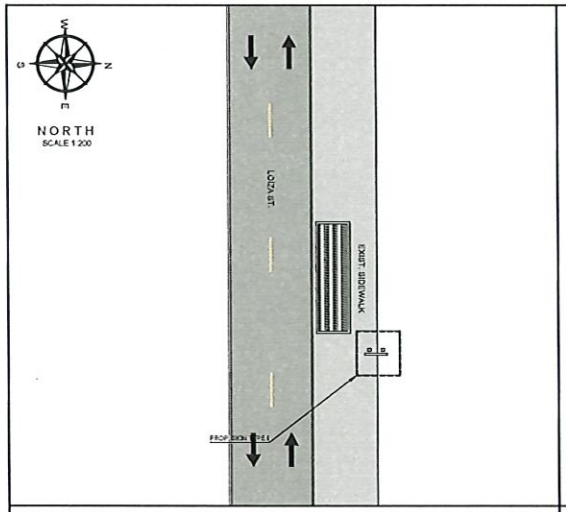
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.18	SHEET NO. 56 OF 88

ROUTE 5 | BUS STOP #35

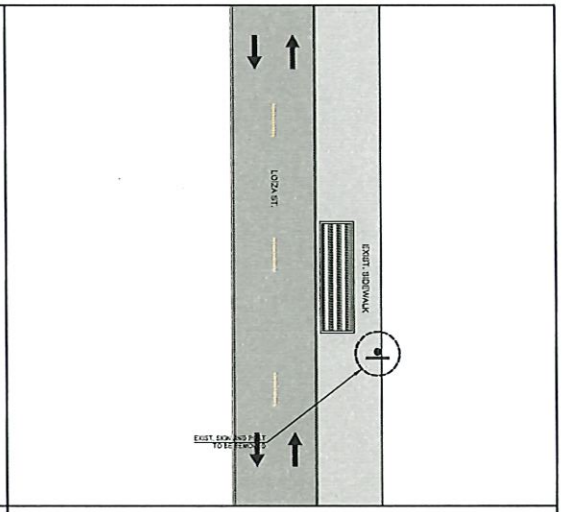
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

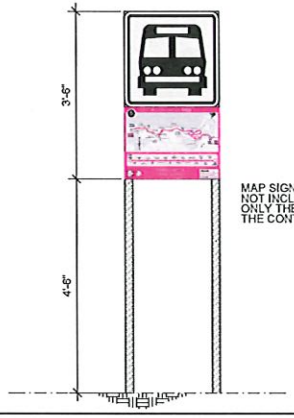


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#35



EXIST. CONDITIONS - ROUTE 5 | B.S.#35

2.5 0 5 15
SCALE 1:200



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

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

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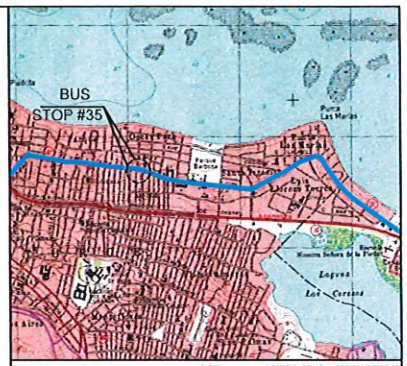
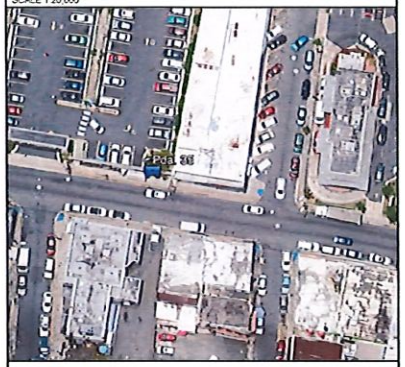
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN BETWEEN PLANTING & SIDEWALK, REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.



LOCATION PLAN LAT: 18°27'3.66"N , 66° 3'17.70"W
SCALE 1:20,000



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

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #35

FROM ITURREGUI AVENUE TO SAN JUAN
LOÍZA ST. BEFORE OPPOSITE SIDE OF MANUEL CORCHADO ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAWN BY ABZ
DWG. TYPE TS-2.19	SHEET NO. 57 OF 88

ROUTE 5 | BUS STOP #36

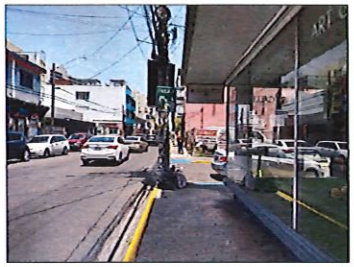
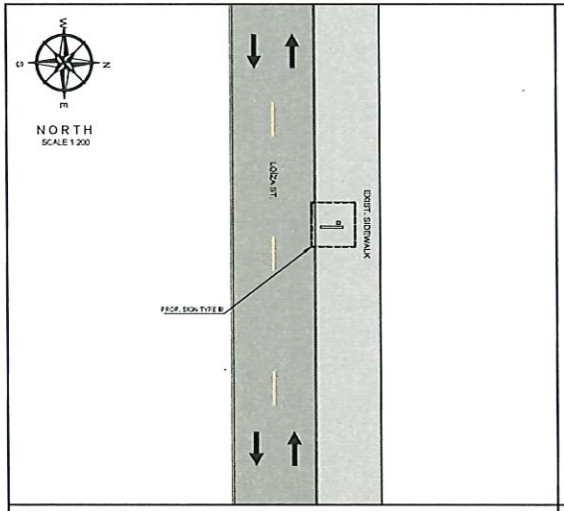


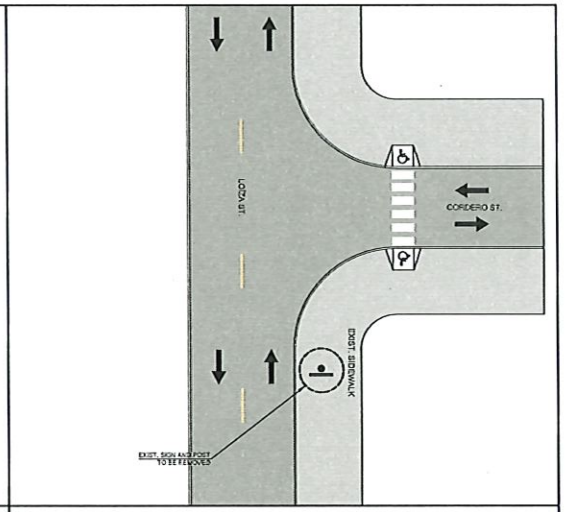
PHOTO - 1

PHOTO - 2

PHOTO - 3. PROPOSED SIGN LOCATION

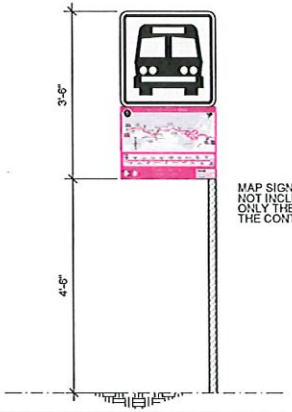


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#36



EXIST. CONDITIONS - ROUTE 5 | B.S.#36

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE III

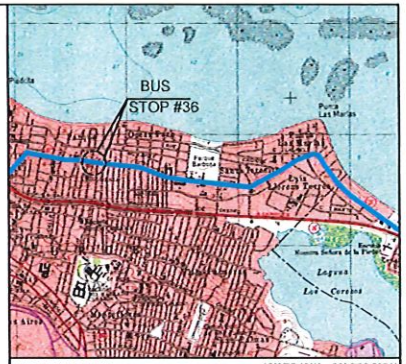
NOT TO SCALE

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 EXCAVATION, DEMOLITION AND PIPES 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 REMOVES THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA 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 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 CANTILEVER SIGN IN THE SIDEWALK. REFER TO PHOTO #3.



LOCATION PLAN 18°27'5.12"N , 66° 3'30.59"W
SCALE 1:20,000

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

Yo, Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que confeccione, diseñe y/o prepare estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia de mi parte, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #36

FROM ITURREGUI AVENUE TO SAN JUAN
LOÍZA ST. AFTER CORDERO ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAW BY ABZ
DWG. TYPE TS-2.20	SHEET NO. 58 OF 88

ROUTE 5 | BUS STOP #37

PHOTO - 1

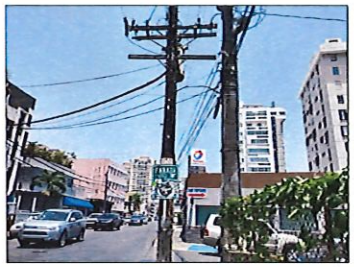
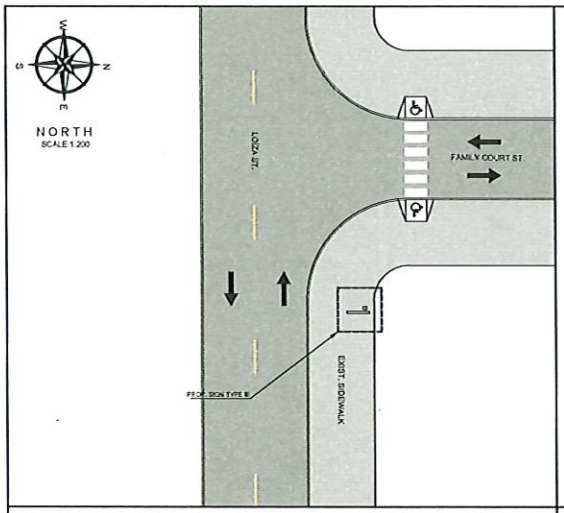
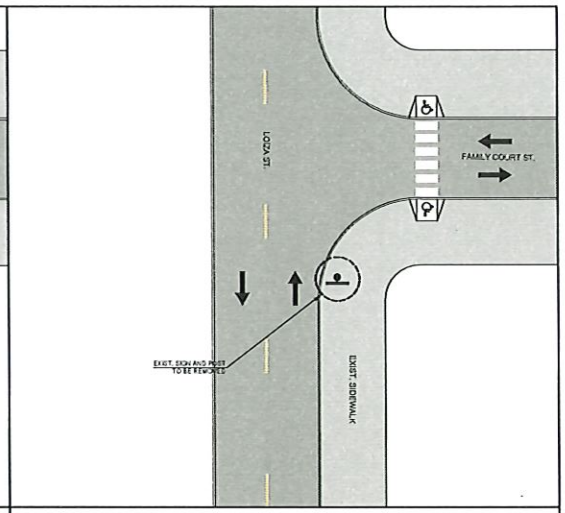


PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

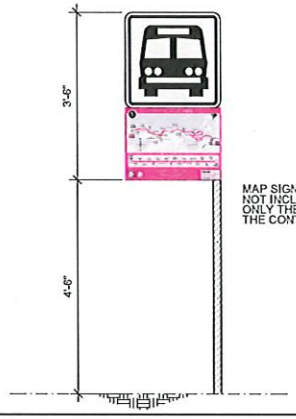


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#37



EXIST. CONDITIONS - ROUTE 5 | B.S.#37

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE III

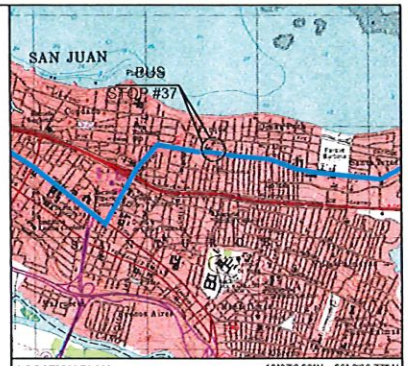
NOT TO SCALE

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 EXCAVATION, DEMOLITION AND FIRES 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 REMOVES THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED CANTILEVER SIGN, 2'-0" AWAY THE WOODEN POLE & NEXT TO FENCE. 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 0.60 M.
7. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.



LOCATION PLAN
SCALE 1:20,000
18°27'6.00"N , 66° 3'36.77"W

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

Yo, Hernan E. Lopez Baez, ingeniero licencia 12154, certifico que soy el profesional que certificaron, diseño y prepare estos planos y las especificaciones simplificadas. Tambien certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Codigos de Construccion vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Publicas con jurisdiccion. Reconozco que cualquier declaracion falsa o falsificacion de los hechos que se haya producido por desconocimiento o por negligencia grave por mi, me expongo a amplias, a por otras personas con mi conocimiento, me hacen responsable de cualquier accion judicial y disciplinaria por la LGPR.

ENZO Engineering, psc.
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Gurabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #37

FROM ITURREGUI AVENUE TO SAN JUAN
LOÍZA ST. INT. FAMILY COURT ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAW BY ABZ
DWG. TYPE TS-2.21	SHEET NO. 59 OF 88

ROUTE 5 | BUS STOP #38

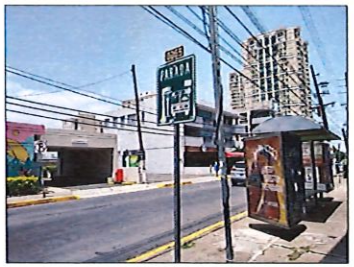
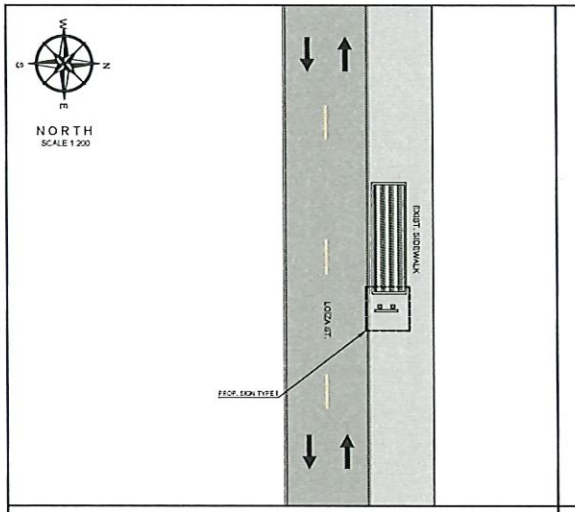


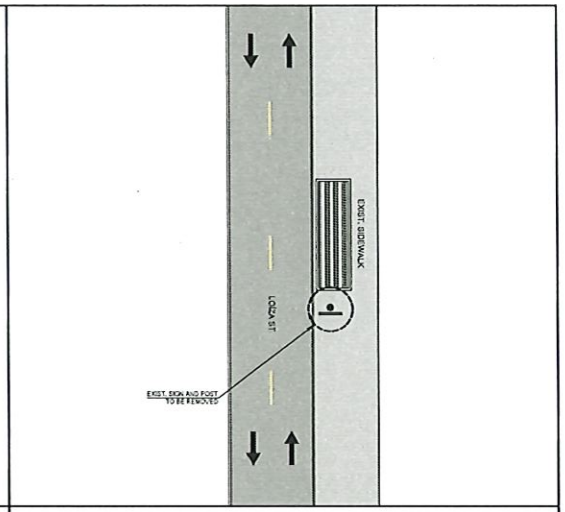
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

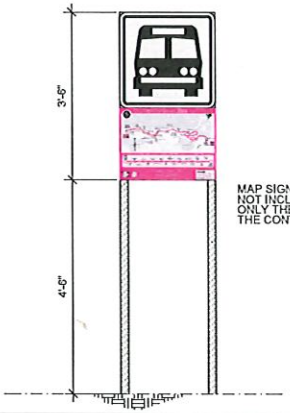


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#38



EXIST. CONDITIONS - ROUTE 5 | B.S.#38

2.5 0 5 15
SCALE 1:200



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

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 EXCAVATION, DEMOLITION AND PIPES PERMITTING FROM THE DEPARTMENT OF TRANSPORTATION AND PUBLIC WORKS PRIOR THE BEGINNING OF EACH WORK SITE DURING THE PROJECT.
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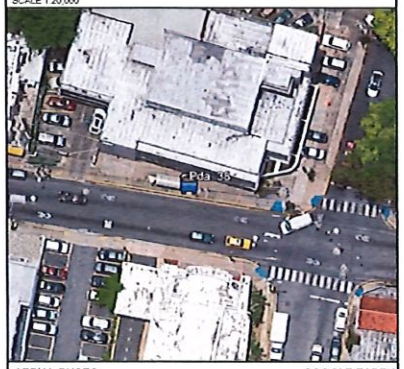
3. THE CONTRACTOR SHALL REMOVES THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.50 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.
7. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.

LOCATION PLAN
SCALE 1:20,000

18°27'6.76"N , 66° 3'42.93"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION 7.3.4.8642 PRO

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

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #38

FROM ITURREGUI AVENUE TO SAN JUAN
LOÍZA ST. BEFORE F. KING'S COURT ST
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAWN BY ABZ
DWG. TYPE TS-2.22	SHEET NO. 60 OF 88

ROUTE 5 | BUS STOP #39

PHOTO - 1

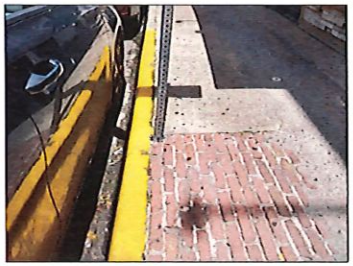


PHOTO - 2

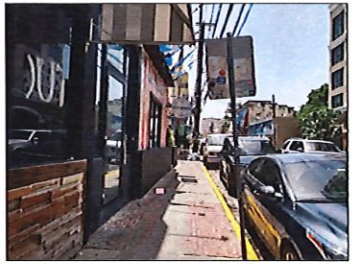
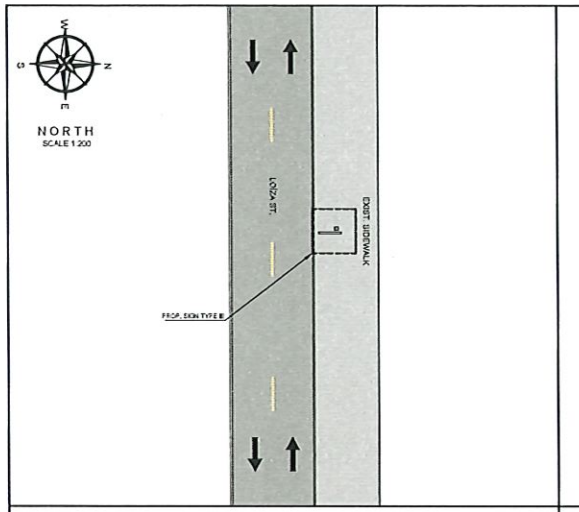
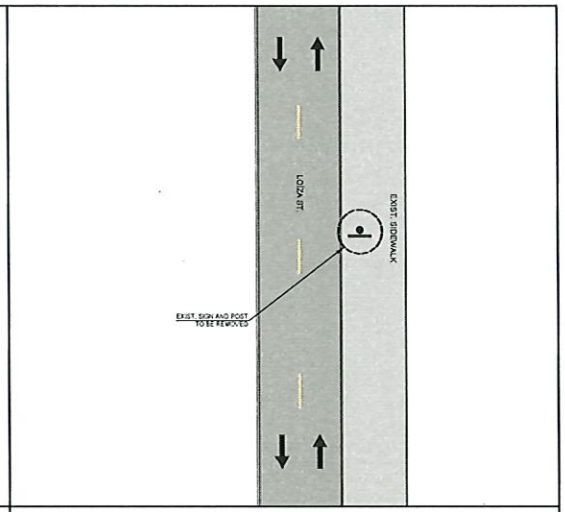


PHOTO - 3: PROPOSED SIGN LOCATION

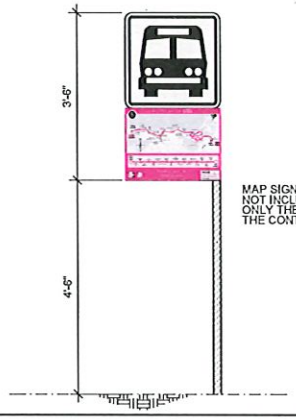


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#39



EXIST. CONDITIONS - ROUTE 5 | B.S.#39

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE III

NOT TO SCALE

LEGEND

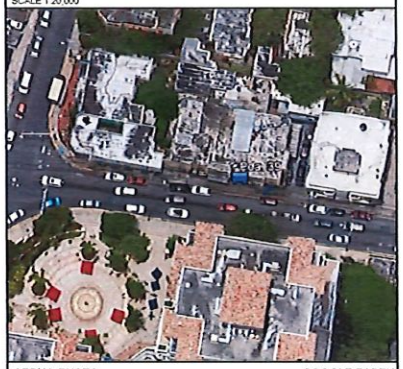
- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRIMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRIMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED CANTILEVER SIGN NEXT TO PROPERTY WALL (NOT IN THE COURTAIN AREA). REFER TO PHOTO #3.
6. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD OVER SHALL BE 0.61 M.
7. THE CONTRACTOR SHALL TAKE INTO ACCOUNT THE LEVEL OF THE EXISTING AERIAL UTILITIES IN THE AREA BEFORE THE WORK PROCEDURES.

LOCATION PLAN
SCALE 1:20,000

18°27'7.50"N , 66° 3'43.18"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero licencia 18154, certifico que soy el profesional que confeccione, diseñe y prepare estos planos y las especificaciones completo mentiras. Tambien certifico que entiendo que estos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Codigos de Construccion vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Publicas con jurisdiccion. Reconozco que cualquier declaracion falsa o falsificacion de los hechos que se haya producido por desconocimiento o por negligencia que sea por mi, mis agentes o empleados y por otras personas con las consecuencias me hacen responsable de cualquier accion judicial y disciplinaria por la OGPe.

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

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #39

FROM ITURREGUI AVENUE TO SAN JUAN
LOÍZA ST. BEFORE DE DIEGO AVE.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

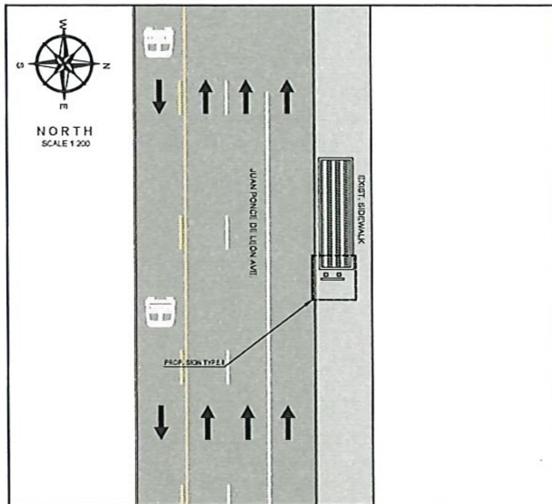
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAWN BY: ABZ
DWG. TYPE: TS-2.23	SHEET NO. 61 OF 88

ROUTE 5 | BUS STOP #43

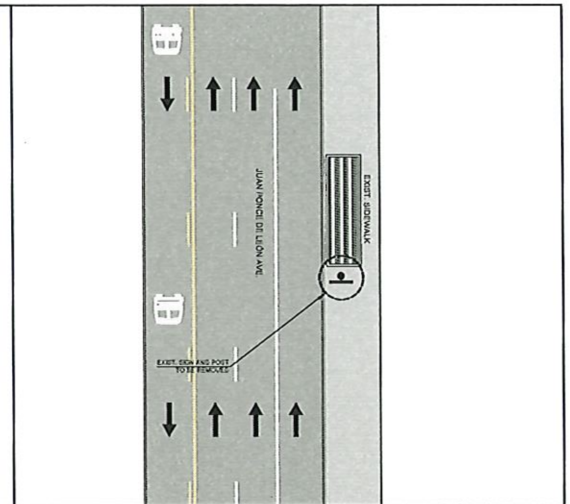
PHOTO - 1

PHOTO - 2

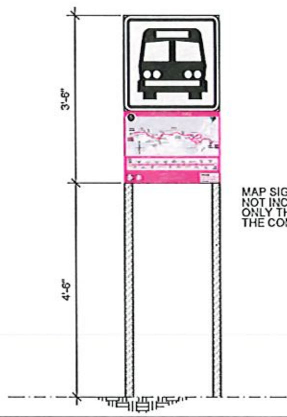
PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#43



EXIST. CONDITIONS - ROUTE 5 | B.S.#43



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

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 (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER 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 0.60 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.

LOCATION PLAN
SCALE 1:20,000
18°26'48.01"N , 66° 4'8.03"W

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

Yo, Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseño y preparo estos planos y las especificaciones complementarias. Tambien certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Codigos de Construccion Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Publicas con jurisdiccion. Reconozco que cualquier declaracion falsa o falsificacion de los hechos que se haya producido por desconocimiento o por negligencia ya sea por mi, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier accion judicial y disciplinaria por la OGPe.

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

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #43
FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE BEFORE OPPOSITE SIDE OF LLOVERAS ST
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

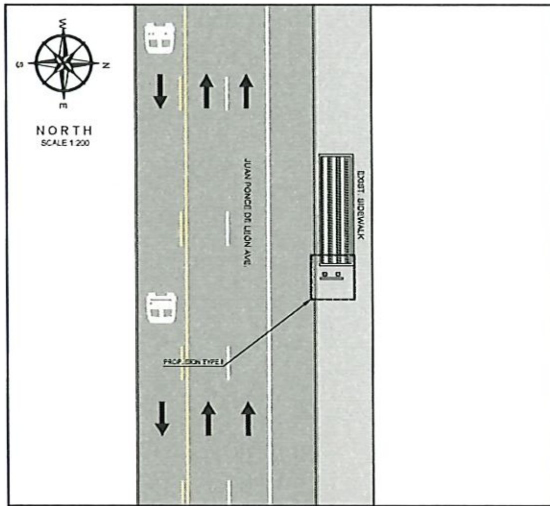
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.24	SHEET NO. 62 OF 88

ROUTE 5 | BUS STOP #44

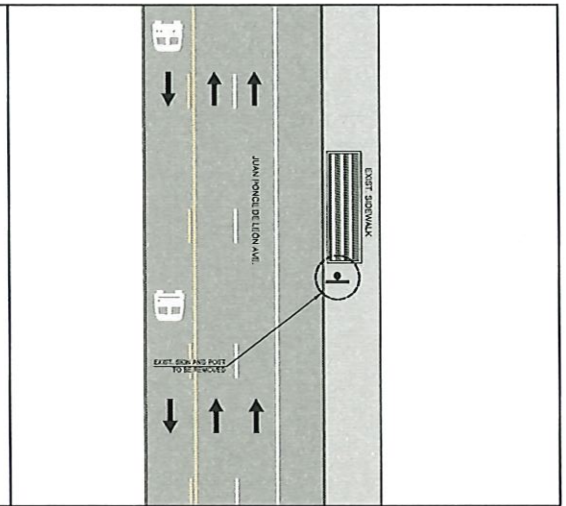
PHOTO - 1

PHOTO - 2

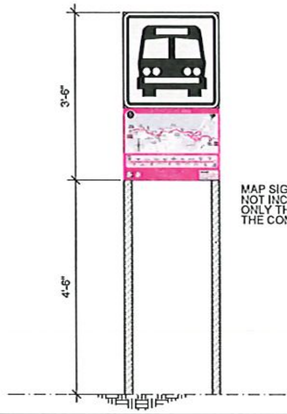
PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#44



EXIST. CONDITIONS - ROUTE 5 | B.S.#44



PROPOSED SIGN TYPE I

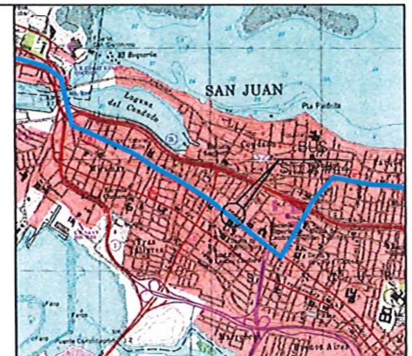
NOT TO SCALE

LEGEND:

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

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER 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 0.60 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.



LOCATION PLAN 18°26'51.93"N , 66° 4'13.47"W
SCALE 1:20,000

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

ENZO Engineering, psc.
PO Box 3040, PMB 427
Gurabo, PR 00778
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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #44
FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE BEFORE OPPOSITE SIDE OF
HIPÓDROMO ST. MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

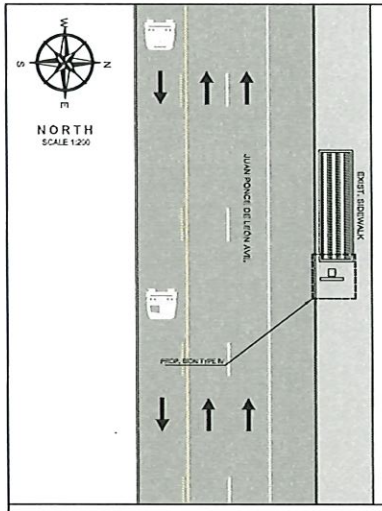
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.25	SHEET NO.: 63 OF 88

ROUTE 5 | BUS STOP #45

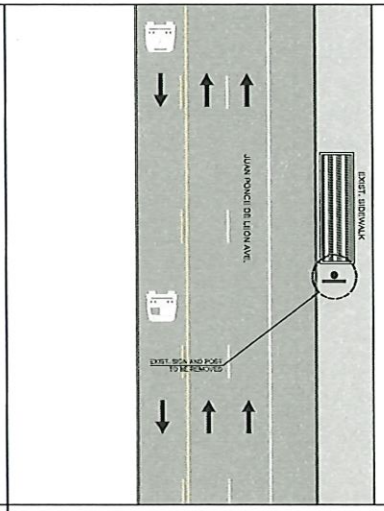
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

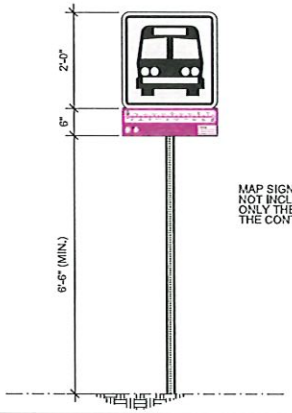


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#45



EXIST. CONDITIONS - ROUTE 5 | B.S.#45

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE IV

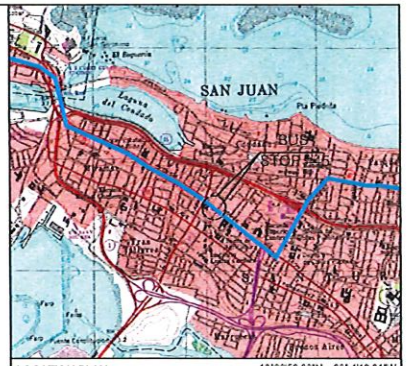
NOT TO SCALE

LEGEND:

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

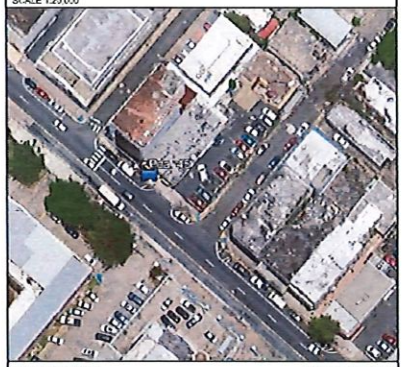
NOTES:

1. THE CONTRACTOR SHALL DETAIL THE EXCAVATION, DEMOLITION AND FEES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA 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 0.92 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA, REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000

18°26'56.83"N, 66° 4'19.81"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez Ingeniero licencia 18184 certifico que soy responsable por la confección, diseño y/o preparación de los planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción vigentes de la Agencia Junta Reglamentadora o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia grave por mi, mis agentes o empleados o por otra persona por mi precedida me hace responsable de cualquier acción judicial y disciplinaria por la CGPL.

ENZO Engineering, psc.
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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18184PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #45

FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE BEFORE DEFFAUT ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

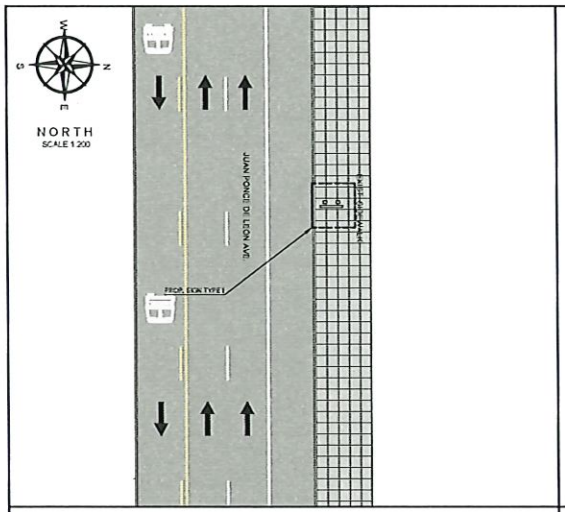
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.26	SHEET NO. 64 OF 88

ROUTE 5 | BUS STOP #46

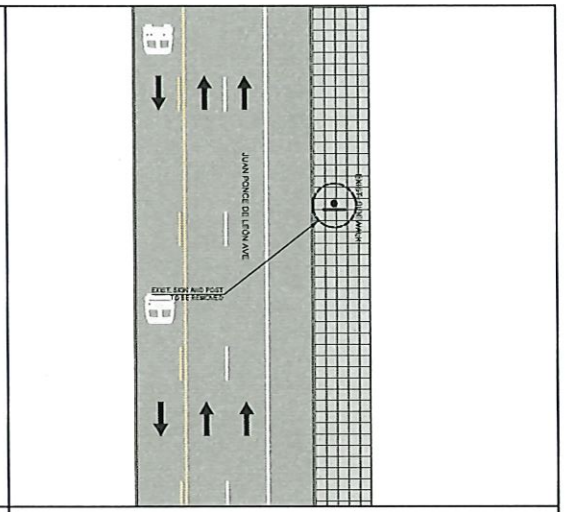
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

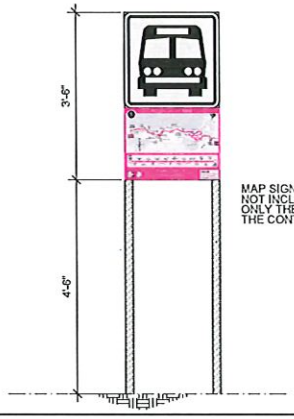


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#46



EXIST. CONDITIONS - ROUTE 5 | B.S.#46

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE I

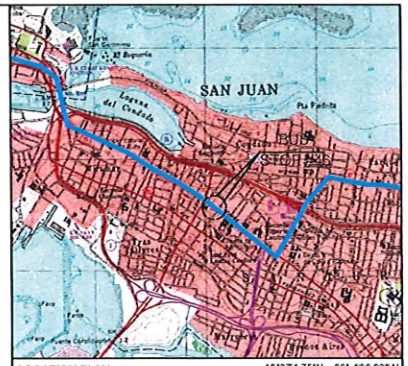
NOT TO SCALE

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 EXCAVATION, DEMOLITION AND PIPES 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 REMOVES THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL REMOVE OTHER POST WITHOUT SIGN IN THE SAME PLACE.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA. REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000

18°27'1.75"N , 66° 4'26.03"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseñó y ya preparó estos planos y las especificaciones compañeroestas. Tambien certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Codigos de Construcción vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Publicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia grave por mi, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la DOPR.

ENZO Engineering, psc.
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TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #46

FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE BEFORE LABRA ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

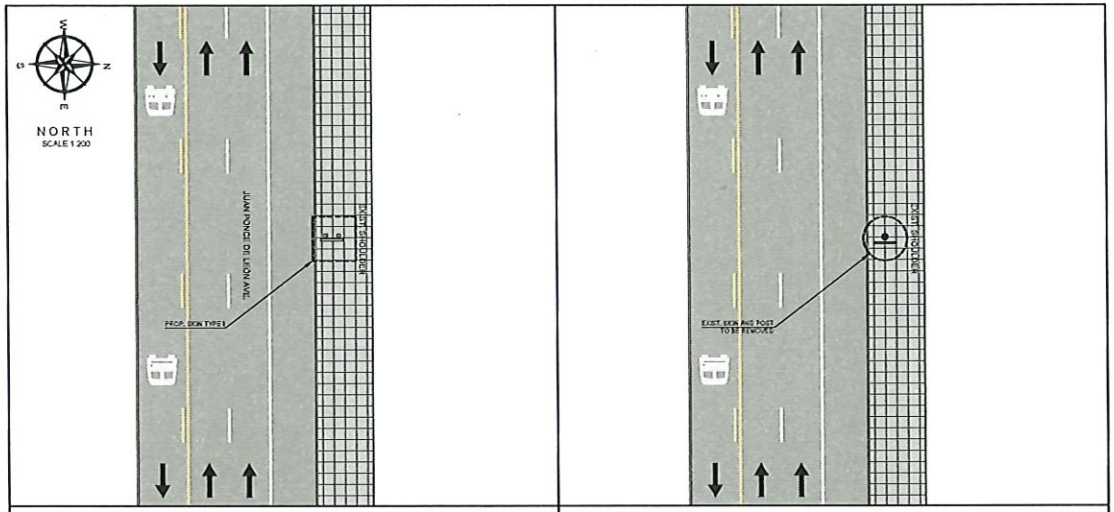
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.27	SHEET NO. 65 OF 88

ROUTE 5 | BUS STOP #47

PHOTO - 1

PHOTO - 2

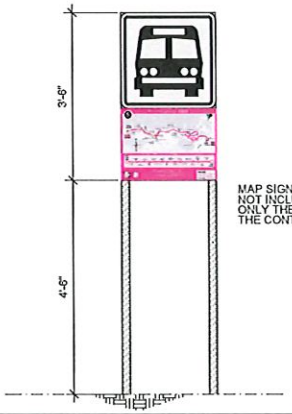
PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#47

EXIST. CONDITIONS - ROUTE 5 | B.S.#47

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE I

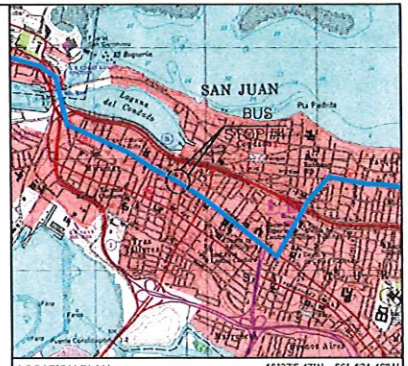
NOT TO SCALE

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

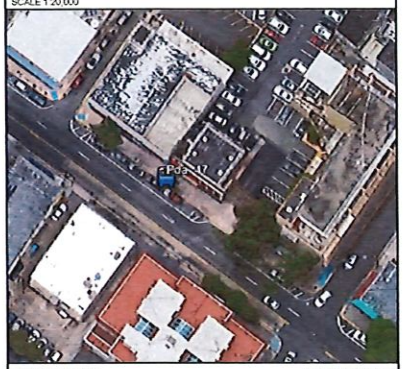
NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PRIC OF THE MUNICIPALITY OF SAN JUAN. ABOUT THE SAME TILE TO INSTALL, BUT THREE TILES (3). 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 0.50 M.



LOCATION PLAN
SCALE 1:20,000

18°27'5.47"N , 66° 4'31.46"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que confeccione, diseñe y prepare estos planos y las especificaciones completamente. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción vigentes de las Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Renuncio que cualquier deficiencia, falta o Malfuncion de los hechos que se haya producido por desconocimiento o por negligencia, ya sea por mi, mis agentes o empleados, o por otras personas con no consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la ECPA.

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

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #47

FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE BEFORE JESÚS TIZOL ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

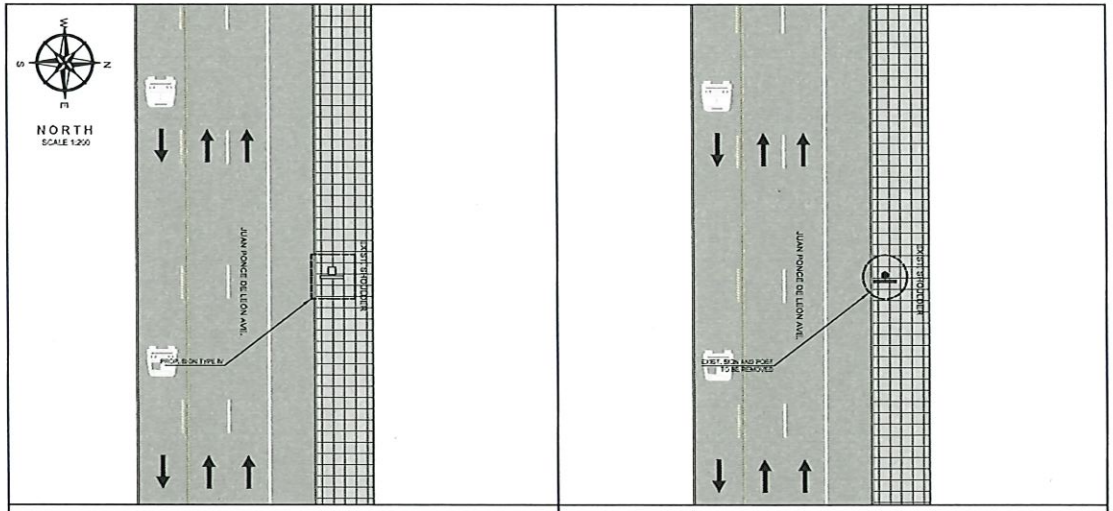
REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAW BY ABZ
DWG. TYPE TS-2.28	SHEET NO. 66 OF 88

ROUTE 5 | BUS STOP #48

PHOTO - 1

PHOTO - 2

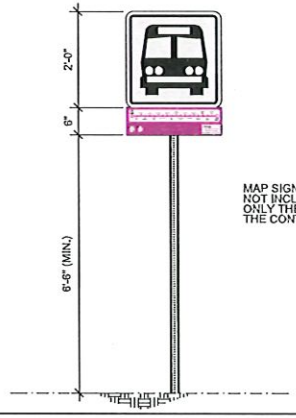
PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#48

EXIST. CONDITIONS - ROUTE 5 | B.S.#48

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE IV

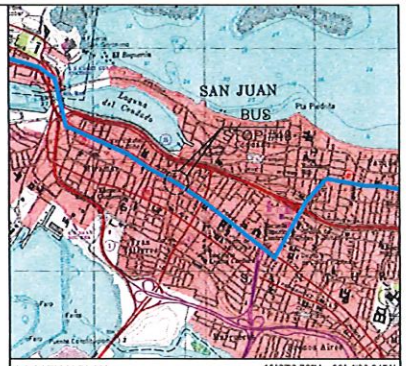
NOT TO SCALE

LEGEND:

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

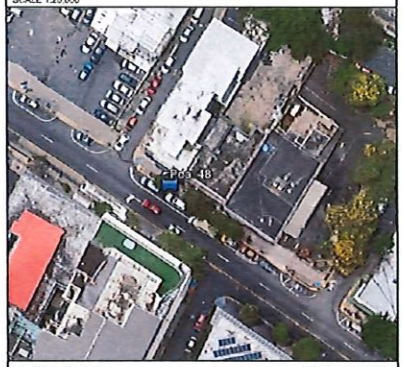
NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITS 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TILES NEXT TO LUMINAIRE POLE. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PUBLIC OF THE MUNICIPALITY OF SAN JUAN. ABOUT THE SAME TILE TO INSTALL. BUS THREE TILES OR, 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 0.61 M.



LOCATION PLAN
SCALE 1:20,000

18°27'8.72"N , 66° 4'36.64"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. Tambien, certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Codigos de Construcción vigentes de las Agencias, Juntas, Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se hayan producido por desconocimiento o por negligencia grave por mi, mis agentes o empleados o por otras personas por el previstas, me hacen responsable de cualquier acción judicial y daños de por lo menos 50%.

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

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #48

FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE INT RUCABADO ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.29	SHEET NO. 67 OF 83

ROUTE 5 | BUS STOP #49

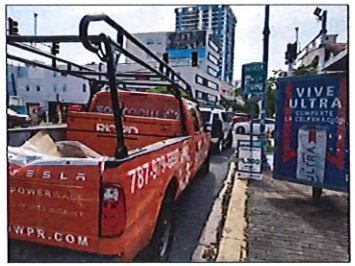
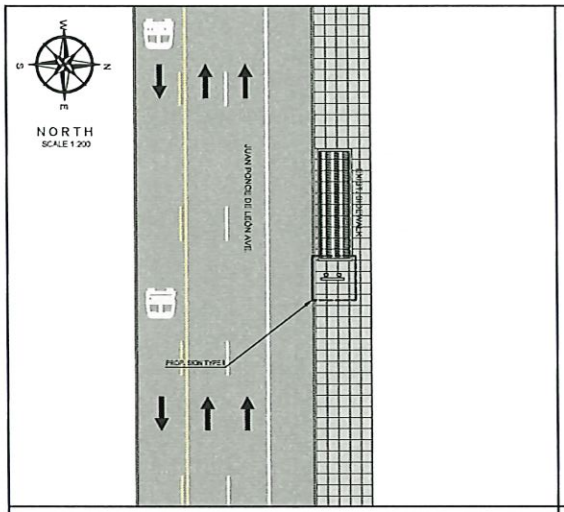


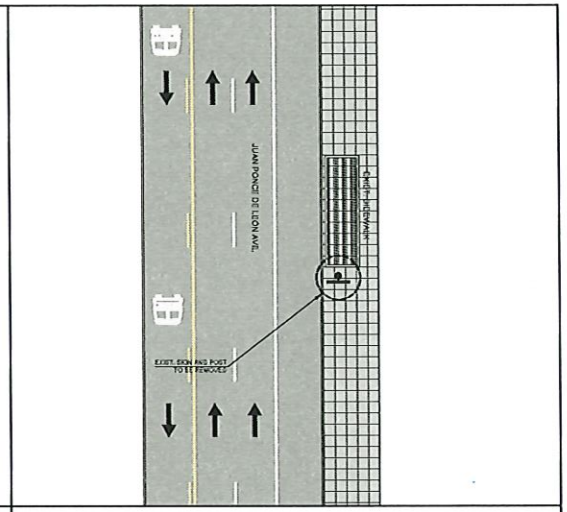
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

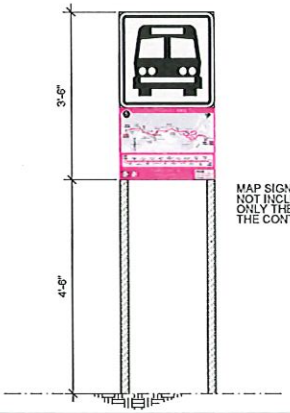


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#49



EXIST. CONDITIONS - ROUTE 5 | B.S.#49

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE I

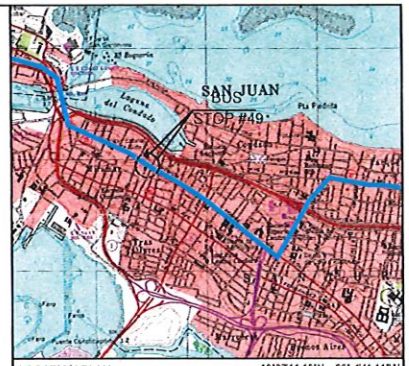
NOT TO SCALE

LEGEND:

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

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMITS 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST, THESE STRUCTURE SHALL BE DELIVER TO THE FRYMA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PMO OF THE MUNICIPALITY OF SAN JUAN. ABOUT THE SAME TILE TO INSTALL BUY THREE TILES (3). 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 0.61 M.



LOCATION PLAN
SCALE 1:20,000

18°27'11.18"N , 66° 4'41.11"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, ingeniero, licencia 18154, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia que sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
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Guaraño, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO
LICENCIADO
PUERTO RICO

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #49

FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE INT. MONSERRATE ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

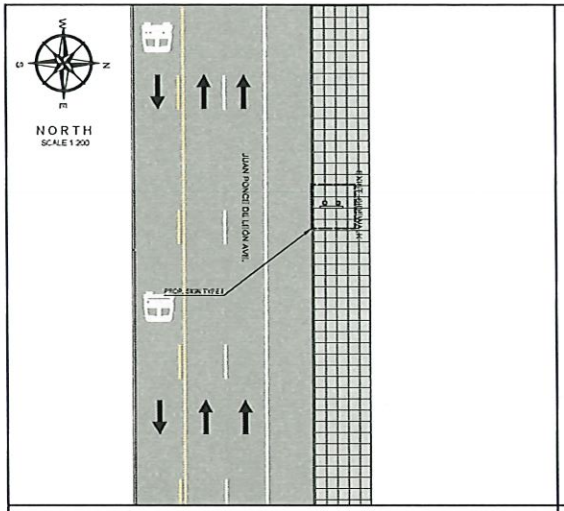
REVISION	
DATE JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.30	SHEET NO. 68 OF 88

ROUTE 5 | BUS STOP #50

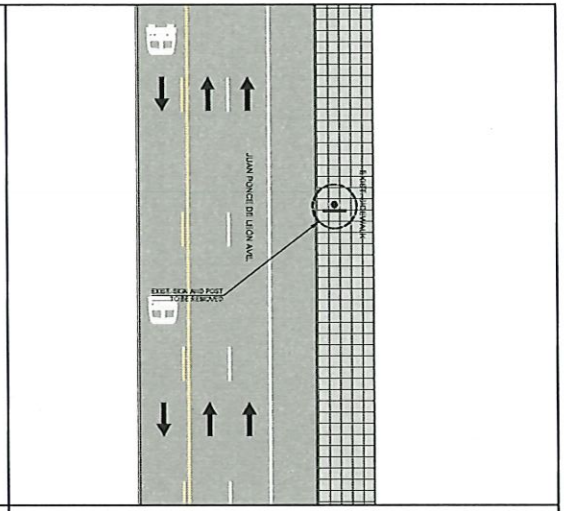
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

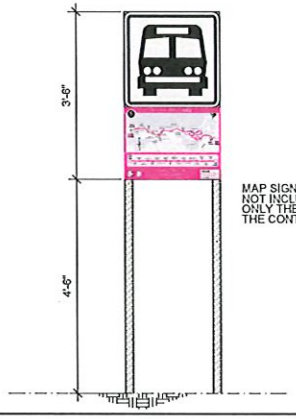


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#50



EXIST. CONDITIONS - ROUTE 5 | B.S.#50

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE I

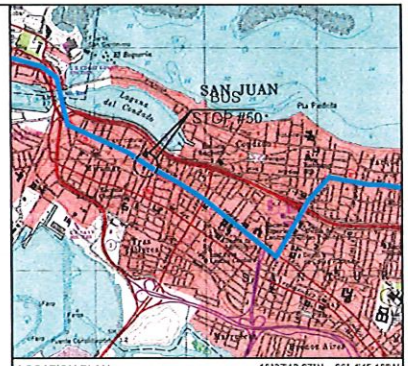
NOT TO SCALE

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 EXCAVATION, DEMOLITION AND PIPES 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 REMOVED THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE FRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH ONE OF THE MUNICIPALITY OF SAN JUAN. ABOUT THE SAME TILE TO INSTALL. BUY THREE TILES (3). 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 0.5'M.



LOCATION PLAN
SCALE 1:20,000
18°27'13.67"N , 66° 4'45.18"W

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

Yo, Hernan E. Lopez Baez, ingeniero licencia 18154, certifico que soy el profesional que confeccione, diseñe y prepare estos planos y las especificaciones completo mentorias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción vigentes de las Agencias, Juntas Reglamentarias o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia de mi parte o mi agente o empleado, o por otras personas con mi consentimiento me hacen responsable de cualquier acción judicial y disciplinaria por la LUPA.

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INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18154PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #50

FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE BEFORE HOARE ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAW BY. ABZ
DWG. TYPE TS-2.31	SHEET NO. 69 OF 88

ROUTE 5 | BUS STOP #51

PHOTO - 1

PHOTO - 2

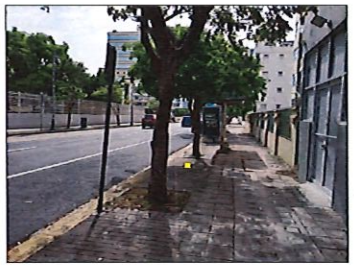
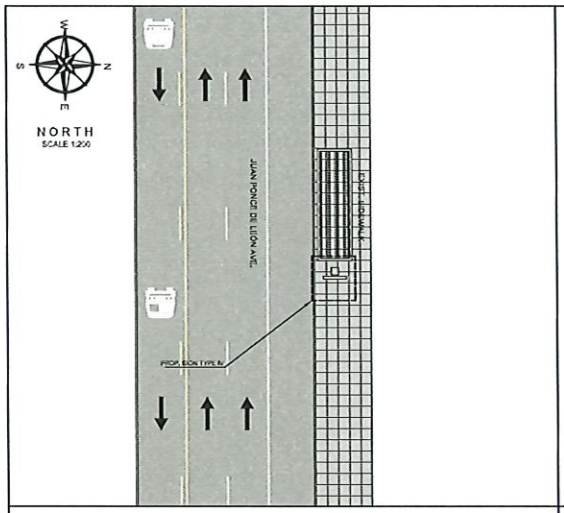
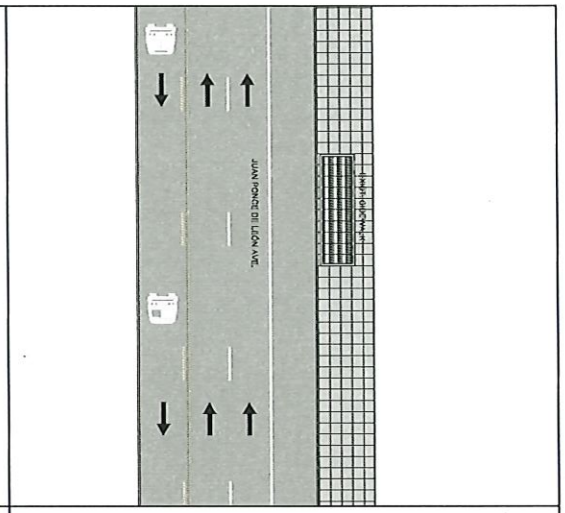


PHOTO - 3: PROPOSED SIGN LOCATION

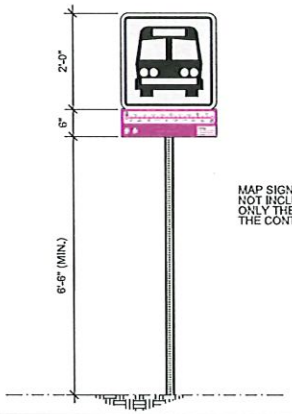


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#51



EXIST. CONDITIONS - ROUTE 5 | B.S.#51

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE IV

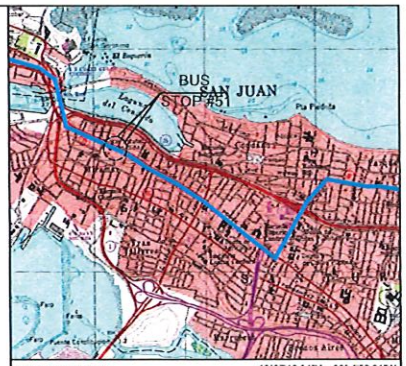
NOT TO SCALE

LEGEND:

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

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES 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 INSTALL THE PROPOSED SIGN IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PKG OF THE MUNICIPALITY OF SAN JUAN. ABOUT THE SAME TILE TO INSTALL SUN THREE TILES (3). REFER TO PHOTO #3.
4. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.60 M.



LOCATION PLAN
SCALE 1:20,000

18°27'18.04"N, 66° 4'52.61"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo, Hernan E. Lopez Baez Ingeniero licencia 18134 certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. Tambien certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción Vigentes de las Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia grave por mi, mis agentes o empleados o por otras personas con mi consentimiento, me hacer responsable de cualquier acción jurídica y disciplinaria por la OGPe.

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Guaynabo, PR 00778
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HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 18134 PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #51

FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE BEFORE TRIGO ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

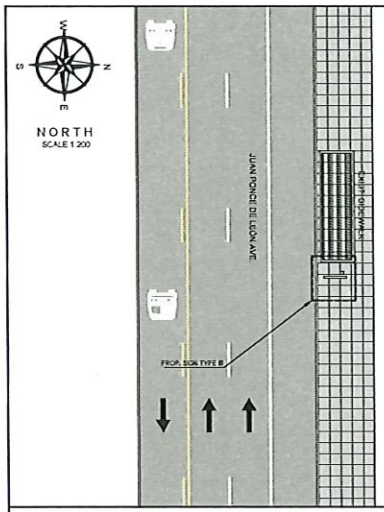
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.32	SHEET NO. 70 OF 83

ROUTE 5 | BUS STOP #52

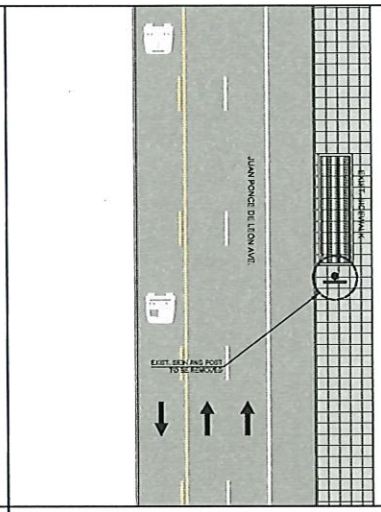
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

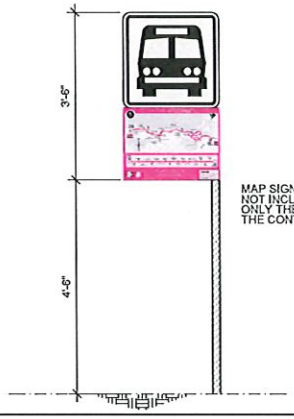


PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#52



EXIST. CONDITIONS - ROUTE 5 | B.S.#52

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE III

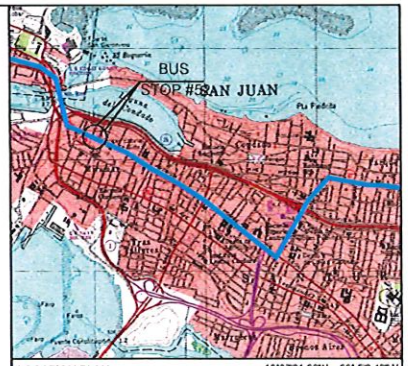
NOT TO SCALE

LEGEND

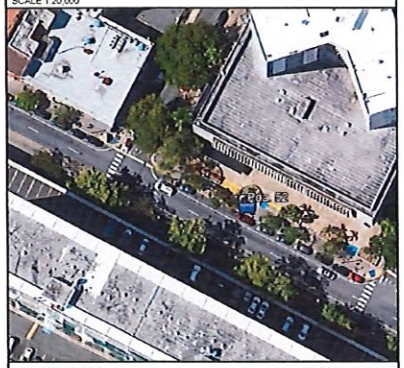
- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PRES 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 REMOVES THE EXISTING SIGN AND TRAFFIC POST. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PMC OF THE MUNICIPALITY OF SAN JUAN. ABOUT THE SAME TILE TO INSTALL. BUY THESE TILES (3). 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 0.60 M.



LOCATION PLAN
SCALE 1:20,000
18°27'21.66"N , 66° 5'0.46"W



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

Yo, Hernan E. Lopez Baez, Ingeniero licencia 18154, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones cumple mentarias. También certifico que entiendo que dichos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia que no sea por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #52

FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE BEFORE ENSENADA ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

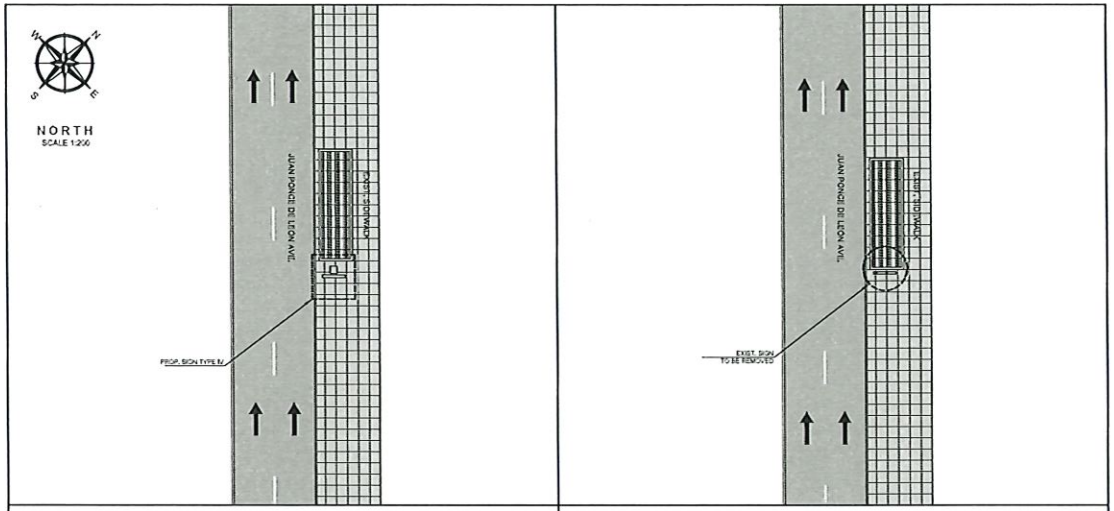
REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAW BY. ABZ
DWG. TYPE TS-2.33	SHEET NO. 71 OF 88

ROUTE 5 | BUS STOP #53

PHOTO - 1

PHOTO - 2

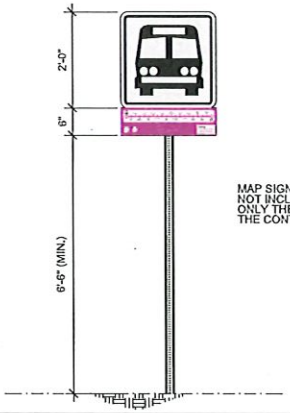
PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 5 | B.S.#53

EXIST. CONDITIONS - ROUTE 5 | B.S.#53

2.5 0 5 15
SCALE 1:200



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

PROPOSED SIGN TYPE IV

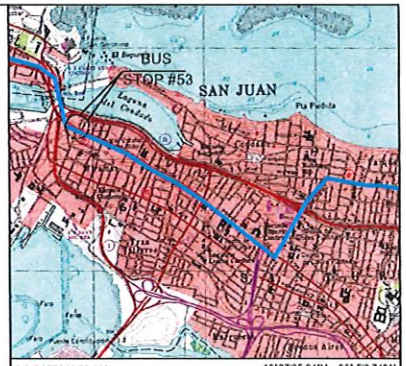
NOT TO SCALE

LEGEND:

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

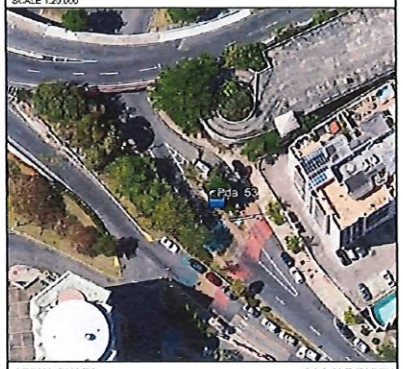
NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES 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 REMOVED THE EXISTING SIGN. THESE STRUCTURE SHALL BE DELIVER TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK, REFER TO PI-CTO #3.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 0.6'-6".



LOCATION PLAN
SCALE 1:20,000

18°27'25.94"N , 66° 58.74"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero Licenciado #18134, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que el diseño que dichos planos y especificaciones cumplen con los disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de la Ley Reglamentaria y Código de Construcción Aprobados de las Agencias, Juntas, Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia grave por mi, mi agente o empleado o por otra persona por mi consentida, me hacen responsable de cualquier acción jurídica y disciplinaria por la OGPe.

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LIC. #18134

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5 | BUS STOP #53

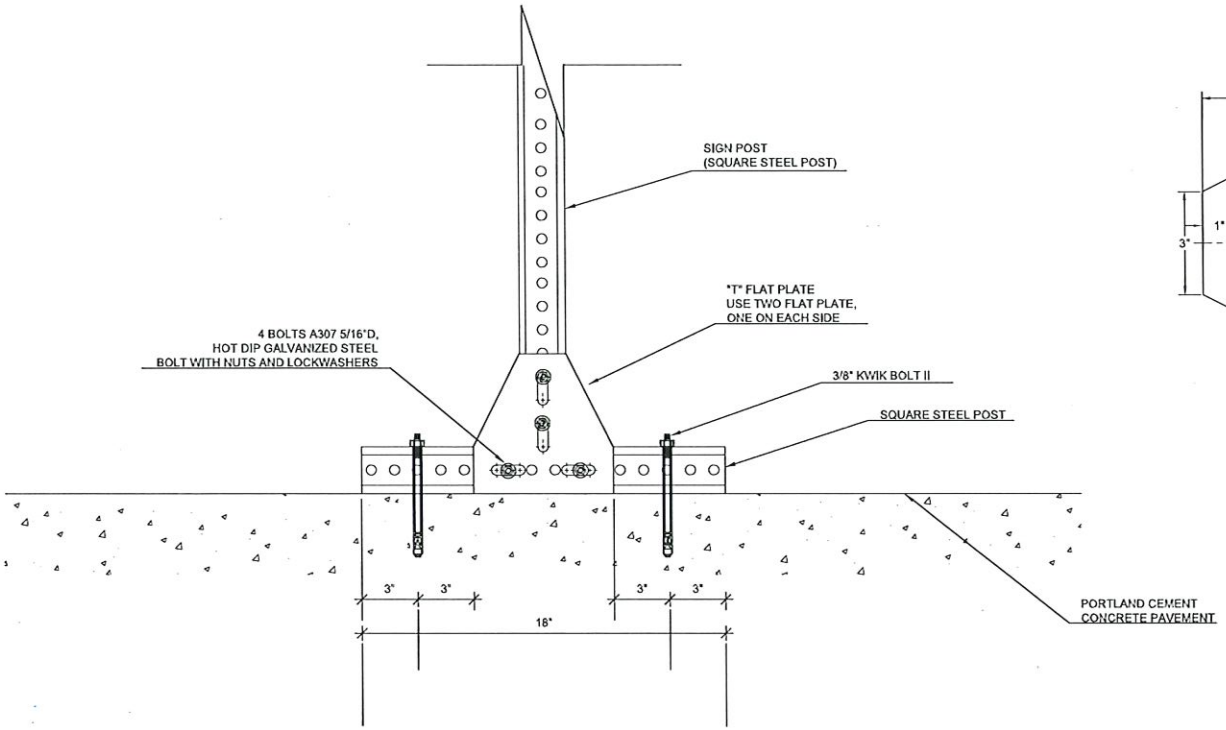
FROM ITURREGUI AVENUE TO SAN JUAN
JUAN PONCE DE LEÓN AVENUE OPPOSITE SIDE OF OLIMPO ST.
MUNICIPALITY OF SAN JUAN

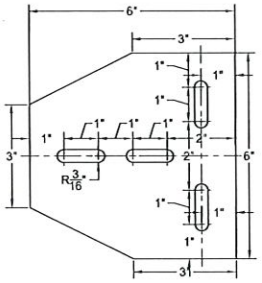
AUTORIDAD METROPOLITANA DE AUTOBUSES

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

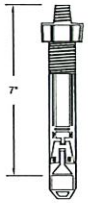
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.34	SHEET NO. 72 OF 88

ROUTE 5 | BUS STOPS





"T" FLAT PLATE



3/8" KWIK BOLT II AS
MANUFACTURED BY HILTI

GENERAL NOTES:

1. THE STEEL FLAT PLATE SHALL CONFORM WITH THE REQUIREMENTS OF ASTM A570 GRADE 33 OR ASTM A36.
2. 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).
3. STEEL FLAT PLATE THICKNESS SHALL BE 1/8".
4. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST CONNECTIONS AS A SUBSIDIARY OBLIGATION.

Yo, Hernán E. López Báez, Ingeniero licenciado, [illegible] certifico que soy el profesional que confeccionó, diseñó y preparó estos dibujos y las especificaciones complementarias. Certifico, además, que he diseñado los dibujos y especificaciones aludidas con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con Jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia es que por mí, mis agentes o empleados o por otras personas con mi conocimiento, me hacen responsable de cualquier acción jurídica, civil o de carácter penal.

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LIC. 18 SAPE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - INSTALATION TO CONCRETE SLAB

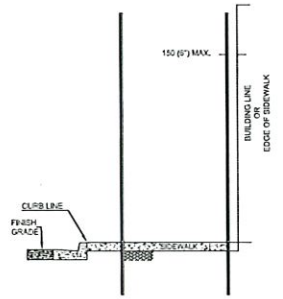
FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITES OF CAROLINA & SAN JUAN

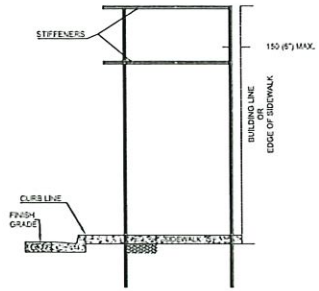
AUTORIDAD METROPOLITANA DE AUTOBUSES

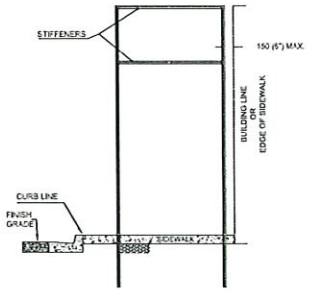
METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-3.01	SHEET NO. 73 OF 88

ROUTE 5 | BUS STOPS

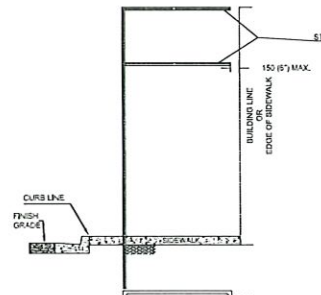






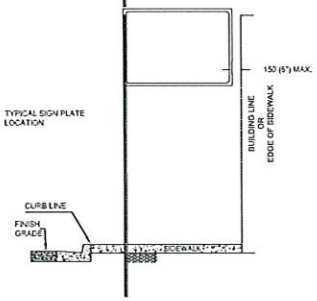
H SUPPORT MOUNTING

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 SQF USE GROUND MOUNTED BREAK-AWAY INSTALLATION.



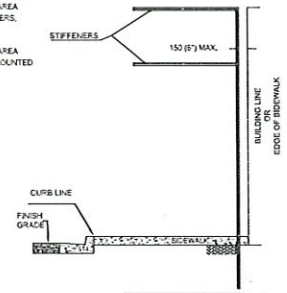
CANTILEVER SUPPORT MOUNTING

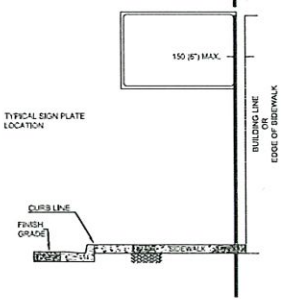
1. FOR SQUARE, RECTANGULAR, PENTAGONAL, OCTAGONAL, DIAMOND AND EQUILATERAL TRIANGLE SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH GREATER THAN 600 (24").
2. FOR OCTAGONAL, DIAMOND, TOURISTIC AND CIRCULAR SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH EQUAL OR LESS THAN 600 (24").



SINGLE SUPPORT MOUNTING

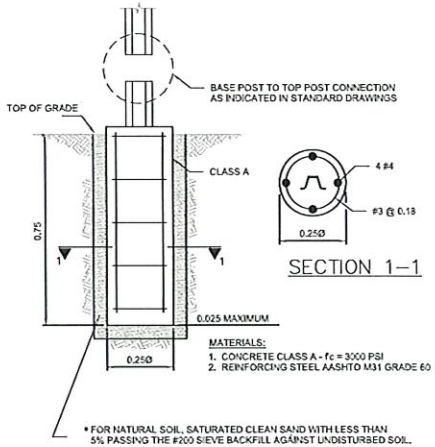
1. FOR SQUARE AND RECTANGULAR SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH EQUAL OR LESS THAN 600 (24").
2. FOR ISOSCELES TRIANGLE SIGN PANEL USE SINGLE SUPPORT MOUNTING.





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.
   TOP POST TO BASE POST CONNECTION SHALL BE AS INDICATED FOR STEEL FLANGED CHANNEL AND SQUARE STEEL POST CONNECTION DETAILS STANDARD DRAWING.
4. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST TO STIFFENERS CONNECTION.
5. ALL VERTICAL POSTS SHALL BE CONTINUOS 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 - fc = 3000 PSI
2. REINFORCING STEEL AASHTO M31 GRADE 60

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

Yo, Hernan E. Lopez Baez, licencia 18104 certifico que soy el profesional que confeccionó, diseñó y/o preparó estos diseños y las especificaciones complementarias. Certifico, además que los diseños y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Código de Construcción vigentes de las Agencias, de los Reglamentos o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia de mi parte, yo, el/la ejecutor/a conjunto/a o por otra persona, soy el/la responsable de cualquier acción jurídica y/o judicial en mi contra.

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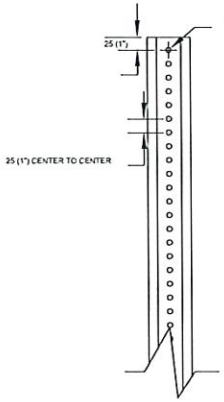
BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - INSTALATION TO CONCRETE SLAB
STEEL FLANGED CHANNEL

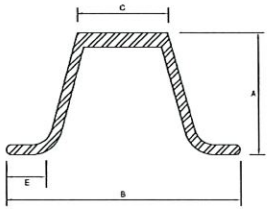
FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITES OF CAROLINA & SAN JUAN

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-3.02	SHEET NO. 74 OF 88

ROUTE 5 | BUS STOPS





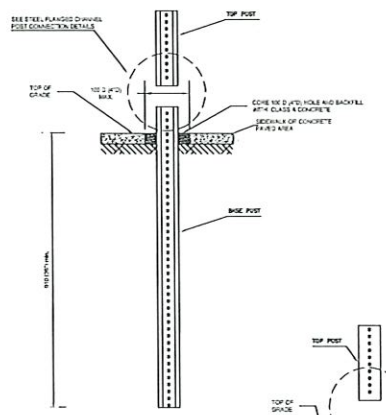
WEIGHT			NOMINAL DIMENSIONS			
			"A"	"B"	"C"	"E"
lbs* / ft	2.00	IN	1.45 TO 1.55	3.00 TO 3.15	1.25 TO 1.30	0.62 TO 0.67
kg** / m	3.00	MM	37 TO 38.5	77.5 TO 79.5	31.75 TO 32.5	15.8 TO 17.0

WEIGHT TOLERANCES
*+-3.5%
**+-5%

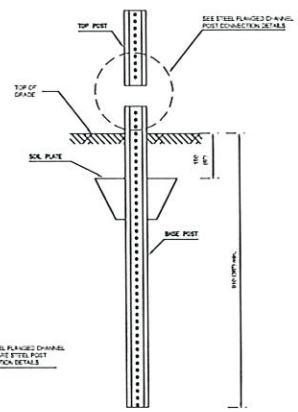
GENERAL NOTES:

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.

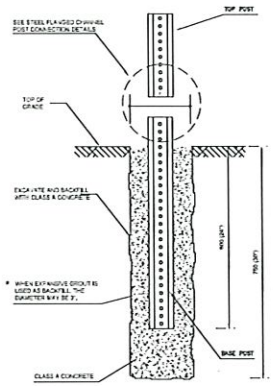
STEEL FLANGED CHANNEL
TOP OR BASE POST



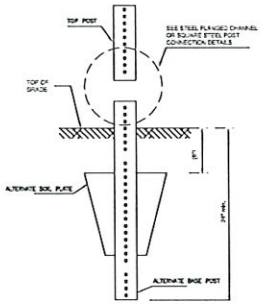
SIDEWALK OR CONCRETE
PAVED AREA



NATURAL SOIL
USE SOIL PLATE



ROCK CONDITION



NATURAL SOIL
ALTERNATE BASE POST AND SOIL PLATE

GENERAL NOTES:

1. THE CONTRACTOR SHALL USE APPROPRIATE SIZE DRILL CAP TO DRILL POSTS.
2. FOR SIDEWALK OR CONCRETE PAVED AREA, THE CONTRACTOR SHALL CORE SIDEWALK & 48 (4") AND BACKFILL WITH CLASS A CONCRETE AS A SUBSIDIARY OBLIGATION.
3. FOR ROCK CONDITION, THE CONTRACTOR SHALL EXCAVATE (6" DIAMETER HOLE) AND BACKFILL WITH CLASS A CONCRETE OR EXCAVATE (3" DIAMETER HOLE) AND BACKFILL WITH EXPANSIVE GROUT AS A SUBSIDIARY OBLIGATION.

NOTE APPLICABLE TO ALL SMALL TRAFFIC SIGNS DRAWINGS:

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

NOTE APPLICABLE TO ALL BASE TO TOP POST CONNECTION DETAILS:

1. CONTRACTORS, SUBCONTRACTORS 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 FHWA LETTER OF ACCEPTANCE THAT THE DEVICE COMPLIES WITH THE NCHRP REPORT 350 REQUIREMENTS, FULL DESCRIPTION AND DRAWINGS OF THE COUPLER INCLUDING DIMENSIONS OF ALL COMPONENTS AND COMPLETE MATERIAL DESCRIPTION OF THE BASE METAL, GALVANIZING, FASTENERS AND OTHER PERTINENT INFORMATION.

Yo, Hernán E. López Báez Ingeniero, licencia 18104 certifico que soy el profesional que confeccionó, diseñó y preparó estos dibujos y las especificaciones complementarias. También certifico que el diseño que dicho dibujo y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia de mi parte, me hará responsable y expuesto a por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y daños de la parte DOPR.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - STEEL FLANGED CHANNEL DETAILS AND FOUNDATIONS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITES OF CAROLINA & SAN JUAN

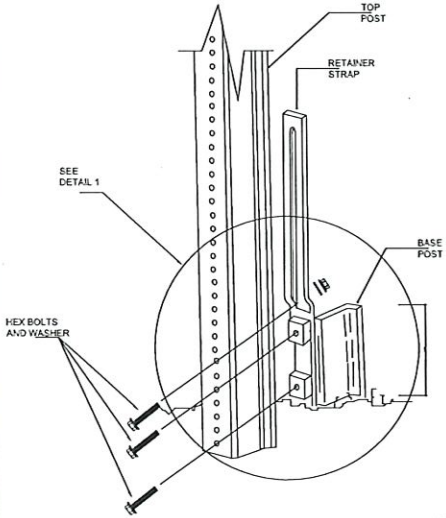
AUTORIDAD METROPOLITANA DE AUTOBUSES

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

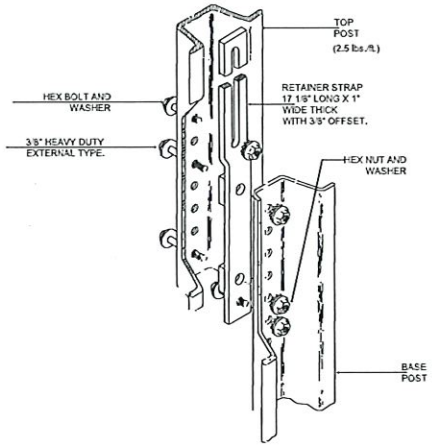
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-3.03	SHEET NO. 75 OF 88

EZE-ERECT SYSTEM

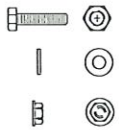
AS MANUFACTURED BY FRANKLIN INDUSTRIES



EZE-ERECT CONNECTION DETAIL



DETAIL 1

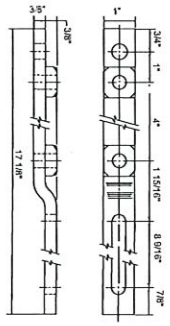


CLASS 12.9 HEX BOLT, WASHER AND NUT

AS SPECIFIED BY FRANKLIN INDUSTRIES

GENERAL NOTES FOR EZE-ERECT SIGN SUPPORT SYSTEM

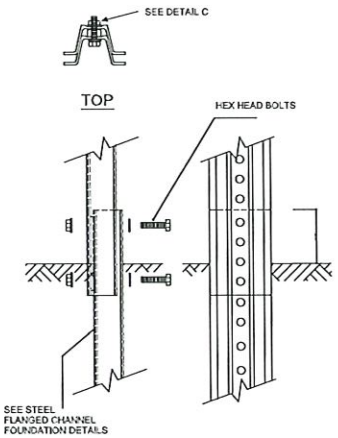
1. THE RETAINER STRAP SHALL BE GALVANIZED BY THE HOT DIP PROCESS CONFORMING TO ASTM A123.
2. HEX BOLT SHALL BE MANUFACTURED ACCORDING TO THE GEOMETRIC SPECIFICATIONS INCLUDED IN ANSI B18.2.3.5M THREADS SHALL CONFORM TO ANSI B1.13M FOR CLASS 6g THREADS.
3. MATERIALS FOR BOLTS SHALL CONFORM TO ASTM F568 FOR CLASS 12.9 (1220 MPA TENSILE STRENGTH AND 1100 MPA YIELD STRENGTH). BOLT HEAD SHALL BE MARKED AS SPECIFIED IN ASTM F568 SECTION 9 WITH THE MANUFACTURER'S IDENTIFICATION SYMBOL AND THE SYMBOL "12.9".
4. NUTS SHALL BE MANUFACTURED ACCORDING TO THE DIMENSIONS AND TOLERANCES IN ANSI B18.2.4.4M FOR METRIC HEX FLANGE NUTS. THE M8x1.25 THREADS SHALL CONFORM TO ANSI B1.13M FOR CLASS 6H.
5. NUTS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M291M FOR CLASS 12 NUTS. PLAIN ROUND STEEL WASHERS SHALL BE MANUFACTURED ACCORDING TO THE DIMENSIONAL AND TOLERANCES IN ANSI B18.22M FOR REGULAR SERIES WASHERS.
6. BOLTS, NUTS AND WASHER SHALL BE ZINC COATED ACCORDING TO AASHTO M232.
7. THE CONTRACTOR SHALL FOLLOW THE MANUFACTURER INSTALLATION INSTRUCTIONS.



RETAINER-SPACER STRAP

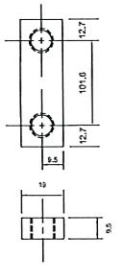
LAP SPLICE BREAKAWAY SYSTEM

AS MANUFACTURED BY MARION STEEL COMPANY



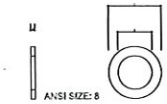
DETAIL A

SPLICE CONNECTION



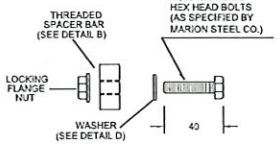
DETAIL B

LAP SPLICE SPACER BAR (PROPRIETARY)



DETAIL D

PLAIN ROUND STEEL WASHER



DETAIL C

CONNECTORS (PROPRIETARY)

GENERAL NOTES FOR LAP SPLICE BREAKAWAY SYSTEM

1. THE SPACER BAR SHALL BE FABRICATED FROM HOT ROLLED CARBON STEEL BARS CONFORMING TO AASHTO M183M.
2. SPACER BAR SHALL BE DRILLED AND TAPPED WITH M 8 X 1.25 THREADS AS SPECIFIED IN ANSI B1.13M FOR CLASS G THREADS.
3. SPACER BAR SHALL BE SILVER COLORED AS PER MARION STEEL.
4. SPLICE HARDWARE SHALL BE ZINC PLATED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM B633.
5. HEX BOLT SHALL BE IDENTIFIED BY HEAD MARKINGS OF "M180" AS WELL AS A RED FINISH.
6. PLAIN ROUND STEEL WASHERS SHALL BE MANUFACTURED ACCORDING TO THE DIMENSIONS AND TOLERANCES IN ANSI B18.22M FOR REGULAR SERIES WASHER.
7. PLAIN ROUND STEEL WASHER SHALL BE ZINC-COATED ACCORDING TO AASHTO M232 FOR CLASS D.

Yo, Hernán E. López Báez Ingeniero, licencia 19104 certifico que soy el profesional que confeccionó, diseñó y/o preparó estos dibujos y las especificaciones complementarias. Certifico, además que el diseño que dichos dibujos y especificaciones describen cumple con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias de los Reglamentos o Ordenanzas Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia de mi parte, de mi agente o empleado, o por otra persona con mi conocimiento, me hacen responsable de cualquier acción jurídica y/o civil de parte de DDPR.

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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 19104

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5

STEEL POST - STEEL FLANGED CHANNEL DETAILS AND FOUNDATIONS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL

MUNICIPALITES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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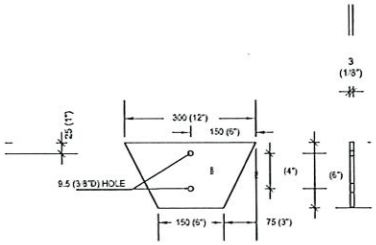
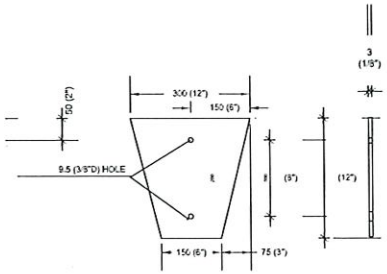
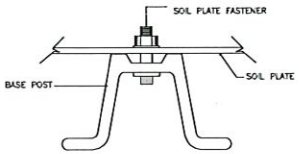


SOIL PLATE

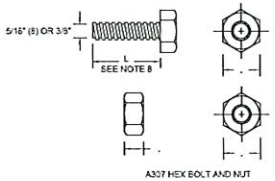


ALTERNATE SOIL PLATE



FLANGED CHANNEL POST

METHOD OF ATTACHING SOIL PLATE TO POST



SOIL PLATE FASTENER

GENERAL NOTES:

1. SOIL PLATE SHALL BE MANUFACTURED ACCORDING TO AASHTO M183.
2. AFTER ALL PUNCHING, 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, Hernan E. Lopez Baez Ingeniero, licencia 18104, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que el diseño que refleja estos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se vean probados por desconocimiento o por negligencia grave por mí, mis agentes o empleados, o por otra persona con mi consentimiento, me hacen responsable de cualquier acción jurídica y disciplinaria por la OCPA.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - STEEL FLANGED CHANNEL
SOIL PLATE DETAILS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
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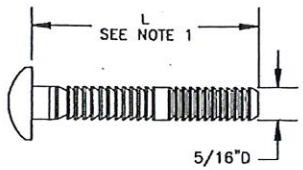
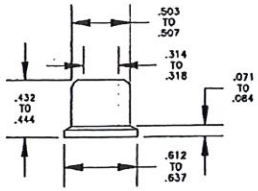


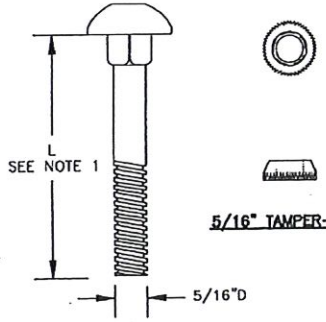
MAGNA GRIP FASTENER
AS MANUFACTURED BY HUCK
PART NUMBER IDENTIFICATION: MGPB-E 5/16" - 22 G



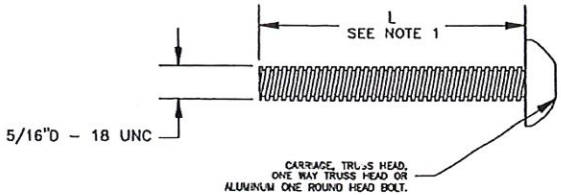
MAGNA GRIP COLLAR
AS MANUFACTURED BY HUCK
PART NUMBER IDENTIFICATION: MGC-F 5/16" G

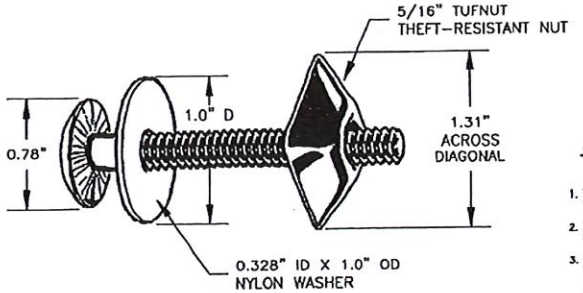
ACCEPTABLE FEATURES: SUBSTANTIALLY FLUSH WITH END
FOR MAGNA GRIP FASTENER

UNACCEPTABLE FEATURES
FOR MAGNA GRIP FASTENER



5/16" TAMPER-NUT





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

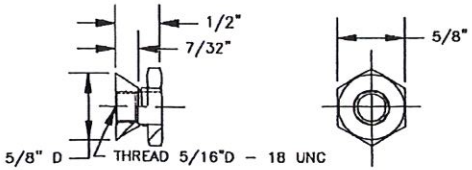
ALUMINUM VANDAL RESISTANT
GENERAL NOTES

1. THE CONTRACTOR SHALL ADJUST THE LENGTH OF BOLT ACCORDING TO THE POST TYPE. THE BOLT SHALL PENETRATE THE ENTIRE THICKNESS OF THE NUT.
2. THE CONTRACTOR SHALL USE A NYLON, NEOPRENE OR FIBER WASHER BETWEEN REFLECTIVE SHEATHING SIGN FACE AND THE BOLT HEAD.
3. 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.
4. FASTENER DETAILS ARE FOR ILLUSTRATIVE PURPOSE ONLY.

CARRIAGE BOLT

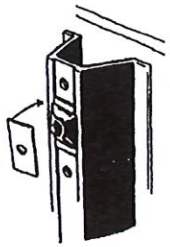
TRUSS HEAD BOLT

ONE WAY TRUSS HEAD BOLT
OR ALUMINUM ONE WAY ROUND HEAD



ALUMINUM STD THREAD VANDLGARD-NUT
VCN 138-5

AS MANUFACTURED BY SIMI FASTENING



TUFNUT MARION
POST WASHERS

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18104, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones complementarias. También, certifico que el/los plano y especificaciones también cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias. Antes Reglamentos de Construcción Pública con Jurisdicción. Asumiendo que cualquier desviación falta o falsificación de los hechos que se hayan producido por desconocimiento o por negligencia que por el/ella aprobó o empleados a su cargo pueden con mi conocimiento, no tienen responsabilidad de cualquier índole jurídica, civil o/y penal o/y ética.

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LIC. 18104

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - STEEL FLANGED CHANNEL
FOR ATTACHING SIGN PLATES TO TOP POST

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITES OF CAROLINA & SAN JUAN

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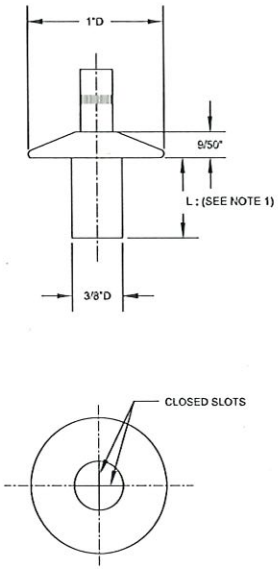
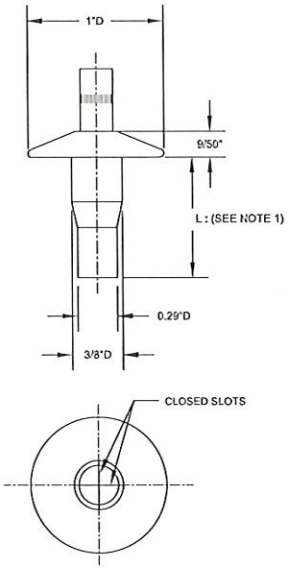


ALUMINUM SIGN RIVET - JUMBO HEAD

VCR 221
AS MANUFACTURED BY SMI FASTENING



MODIFIED ALUMINUM DRIVE RIVET

(RIVET = 2117 ALUMINUM NATURAL, P/N = 7075 ALUMINUM NATURAL)
AS MANUFACTURED BY SOUTHCO

GENERAL NOTES

1. THE CONTRACTOR SHALL ADJUST THE LENGTH OF BOLT ACCORDING TO THE POST TYPE. THE BOLT SHALL PENETRATE THE ENTIRE THICKNESS OF THE NUT.
2. THE CONTRACTOR SHALL USE A NYLON, NEOPRENE OR FIBER WASHER BETWEEN REFLECTIVE SHEATHING SIGN FACE AND THE BOLT HEAD.
3. 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.
4. FASTENER DETAILS ARE FOR ILLUSTRATIVE PURPOSE ONLY.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - STEEL FLANGED CHANNEL
SOIL PLATE FASTENERS DETAILS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITES OF CAROLINA & SAN JUAN

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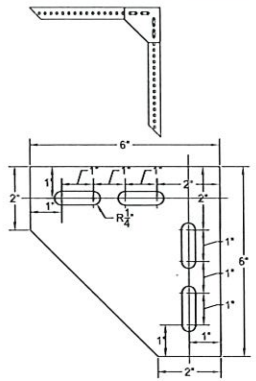
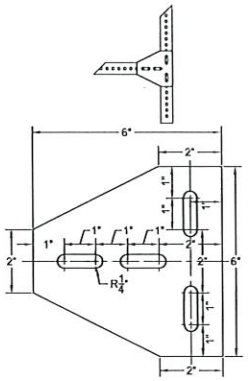
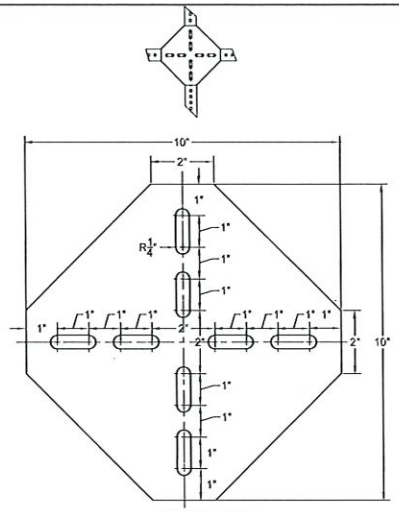


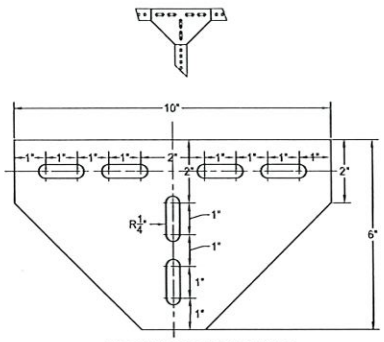
"L" FLAT PLATE



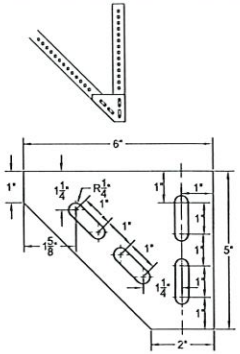
"T" FLAT PLATE



"+" FLAT PLATE

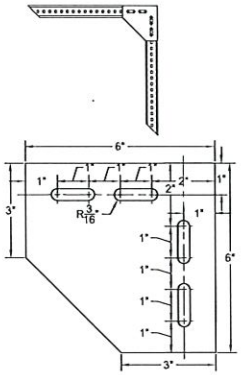


ALTERNATE "T" FLAT PLATE

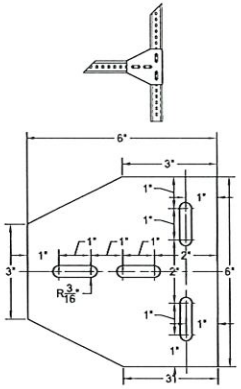


45° FLAT PLATE

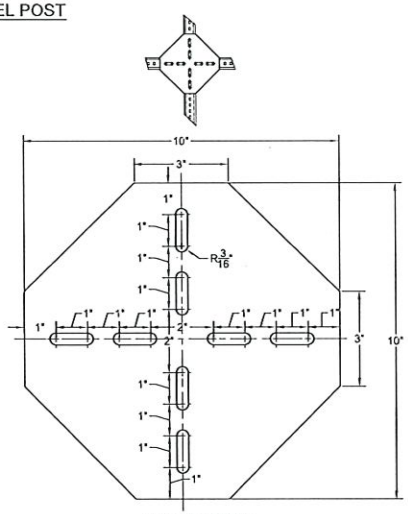
FLAT PLATE FOR SQUARE STEEL POST OR STEEL FLANGED CHANNEL POST



"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 A36.
2. THE CONTRACTOR MAY USE ALUMINUM FLAT PLATE AS AN ALTERNATE. ALTERNATE FLAT PLATE SHALL CONFORM TO ASTM B-209, ALLOY 5052 H-32. 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.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - STEEL FLANGED CHANNEL
"L","T","+" AND"45" FLAT PLATES

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
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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 CONTINUOS 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.

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LIC. 18104

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - STEEL FLANGED CHANNEL
GENERAL NOTES

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITES OF CAROLINA & SAN JUAN

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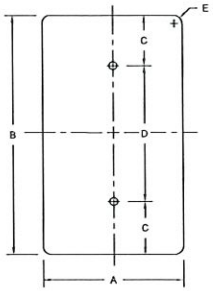
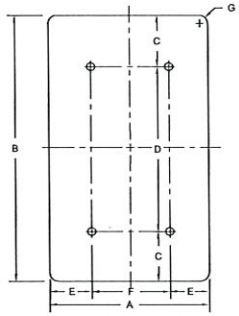
DWG. TYPE: TS-3.09	SHEET NO. 81 OF 88



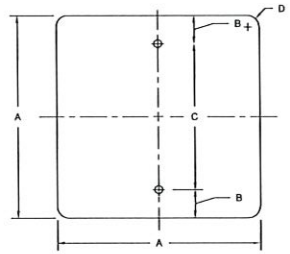
VERTICAL RECTANGLE

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



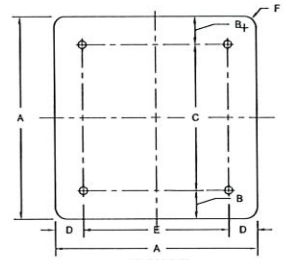
VERTICAL RECTANGLE

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



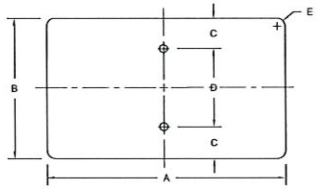
SQUARE

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



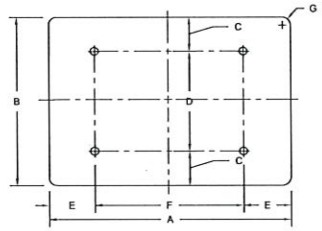
SQUARE

A	B	C	D	E	F
900	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	900	35
1500	900	300	600	600	900	55

Yo, Hernán E. López Báez Ingeniero licencia 12104 certifico que soy el profesional que confeccionó, diseñó y/o preparó estos dibujos y las especificaciones complementarias. Certifico que el diseño que refiere los dibujos aquí y especificaciones también con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con Jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia de mi parte, de mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción jurídica, incluso de la pérdida de mi licencia.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5

STEEL POST - STEEL FLANGED CHANNEL
BLANK PLATE STANDARDS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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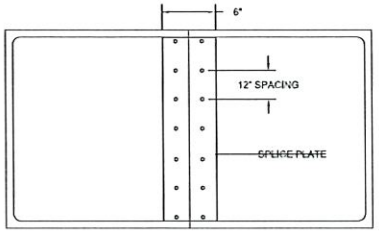

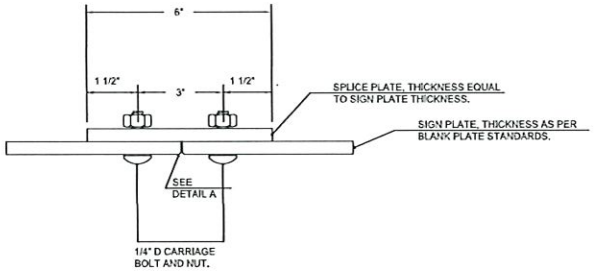

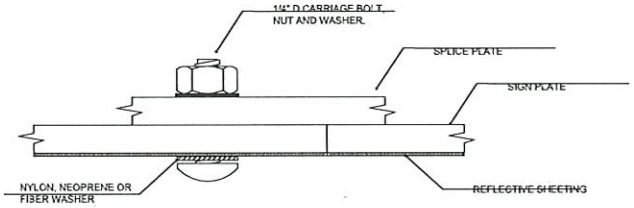

DETAIL A

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.

SIGN PLATE SPLICES

Yo, Hernan E. Lopez Baez, Ingeniero licencia 18104 certifico que soy el profesional que confeccionó, diseñó y preparó estos dibujos y las especificaciones complementarias. También certifico que el diseño que incluyen dichos especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier posterior falta o falsificación de los hechos que se hayan producido por desconocimiento o por negligencia de mi parte o de mis agentes o empleados o por otra persona con mi conocimiento, me hacen responsable de cualquier acción judicial y delictiva en mi contra.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - STEEL FLANGED CHANNEL
SIGN PANEL SPLICES

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITES OF CAROLINA & SAN JUAN

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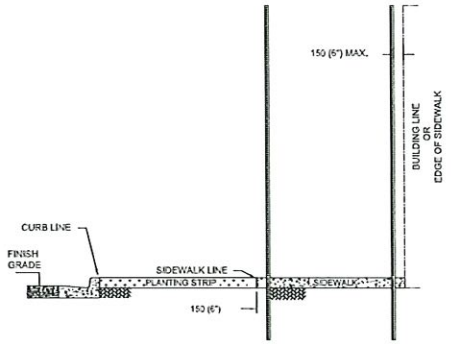
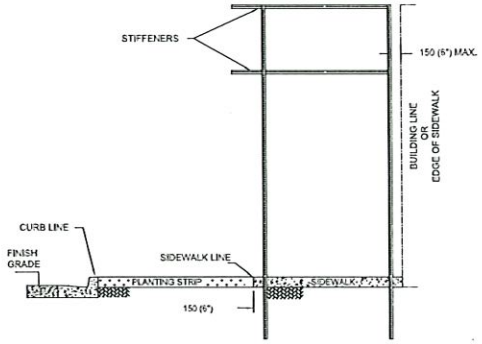
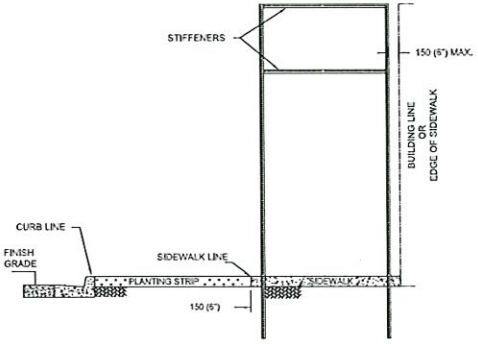
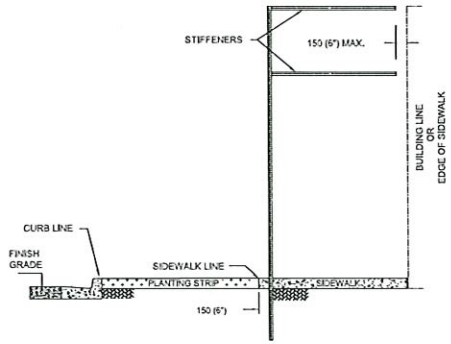


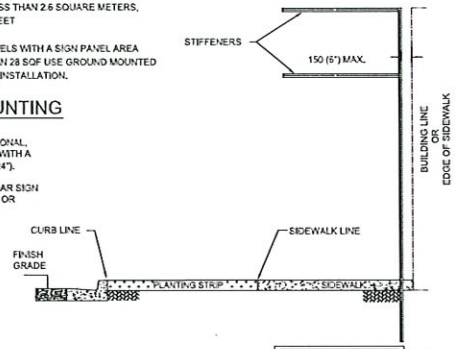




H SUPPORT MOUNTING

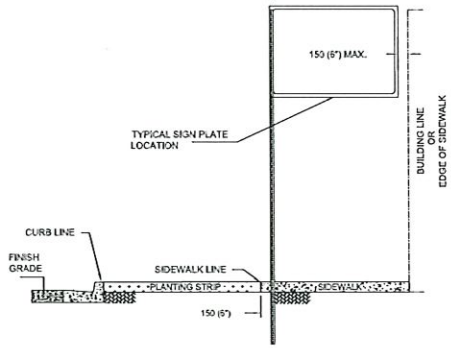
1. FOR SIGN PANELS WITH A SIGN PANEL AREA EQUAL OR LESS THAN 2.6 SQUARE METERS, 28 SQUARE FEET
2. FOR SIGN PANELS WITH A SIGN PANEL AREA GREATER THAN 28 SQF USE GROUND MOUNTED BREAK-AWAY INSTALLATION.

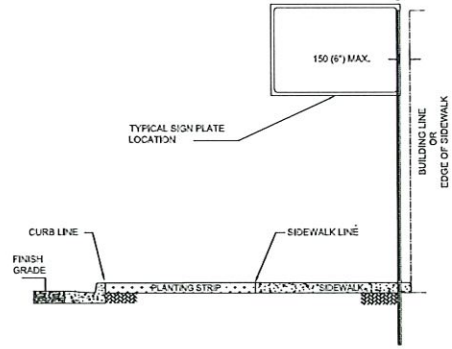




CANTILEVER SUPPORT MOUNTING

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, TOURISTIC 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 ISOSCELES 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 STANDARD DRAWING. TOP POST TO BASE POST CONNECTION SHALL BE AS INDICATED FOR STEEL FLANGED CHANNEL AND SQUARE STEEL POST CONNECTION DETAILS STANDARD DRAWING.
4. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST TO STIFFENERS CONNECTION.
5. ALL TOP POSTS AND BASE POSTS SHALL BE CONTINUOS 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.

Yo, Hernán E. Lopez Baez Ingeniero, licencia 18104 certifico que soy el profesional que confeccionó, diseñó y preparó estos dibujos y las especificaciones complementarias. También certifico que estos dibujos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia de mi parte, de mis empleados o de otras personas con mi conocimiento, me hacen responsable de cualquier acción jurídica y civil de mi parte OCPA.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - STEEL FLANGED CHANNEL
MOUNTING ON SIDEWALK AND PLANTING AREAS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITES OF CAROLINA & SAN JUAN

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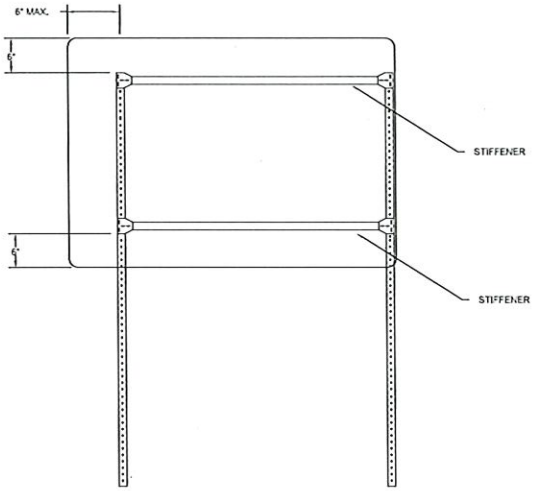
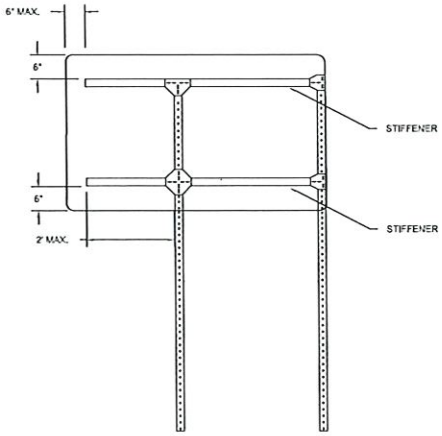
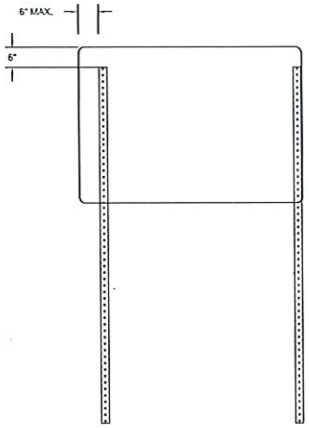
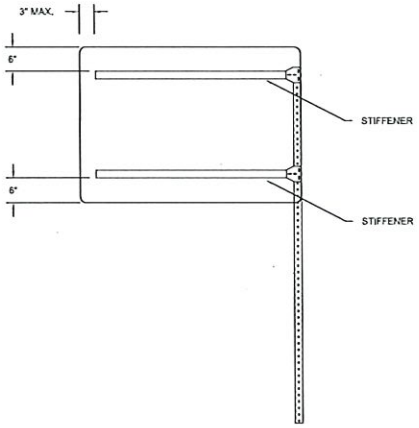






TYPICAL POST LOCATION FOR H SUPPORT MOUNTING



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, Hernan E. Lopez Baez Ingeniero, licencia 18341 certifico que soy el profesional que confeccionó, diseñó y/o preparó estos dibujos y las especificaciones complementarias. También certifico que en forma que dicho dibujos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas, Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia de mi parte, me hará agente o empleado o por otra persona con el consentimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OCPI.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - TYPICAL POST LOCATION FOR MOUNTING ON SIDEWALK AREAS WITH OR WITHOUT PLANTING STRIP

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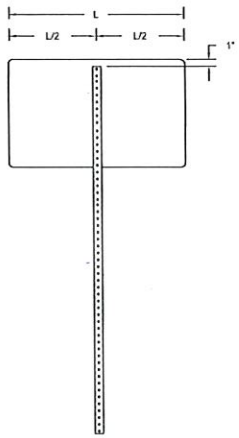
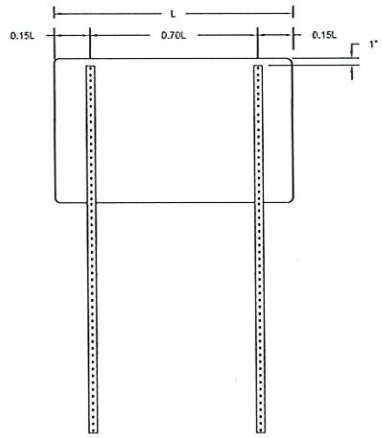


1 POST



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.

Yo, Hernan E. Lopez Baez Ingeniero, licencia 18104 certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que el diseño de estos planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia grave por mi o mis agentes o empleados o por otras personas con mi conocimiento, me hacen responsable de cualquier acción jurídica y disciplinaria por la OCPR.

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HERNAN E. LOPEZ BAEZ, PE MEM
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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - TYPICAL POST LOCATION
FOR MOUNTING STANDARDS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITES OF CAROLINA & SAN JUAN

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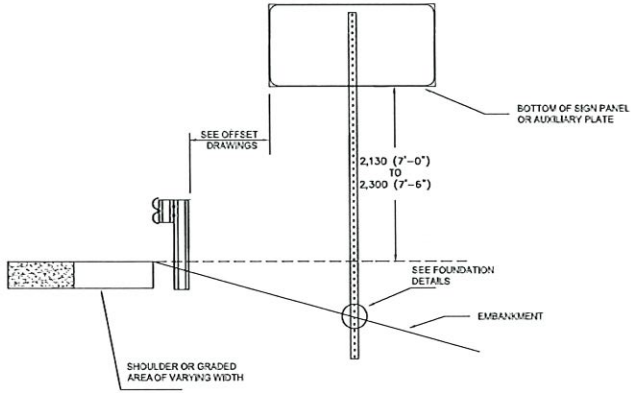
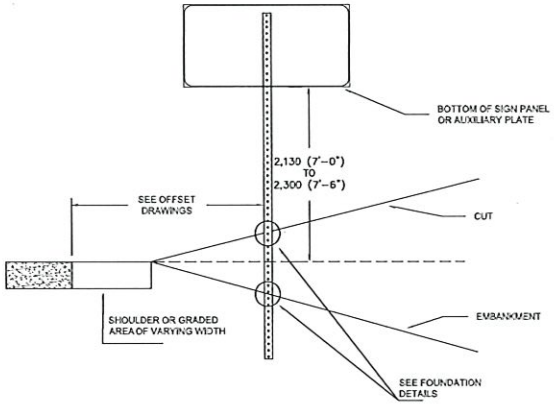
GENERAL NOTES:

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 CONTINUOS 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 (SQUARE FEET)	MAXIMUM SIGN AREA (SQUARE METER)
1	4	0.37
2	16	1.50
3	25	2.32
4	36	3.35

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.





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LIC. 18104PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5

STEEL POST - TYPICAL POST LOCATION
FOR GRASS MOUNTING STANDARDS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
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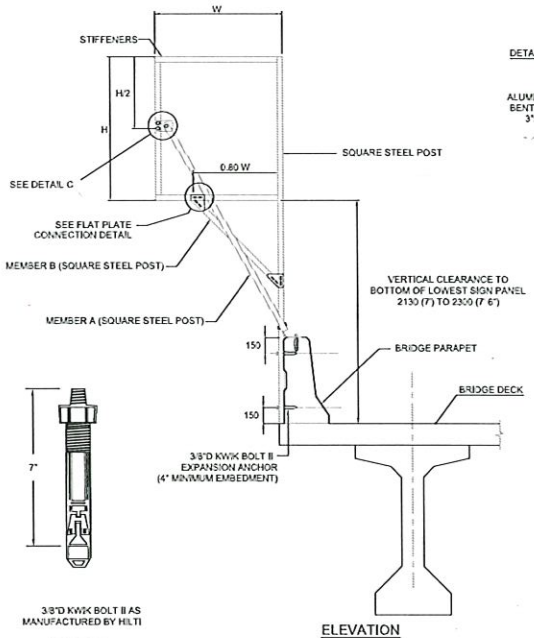
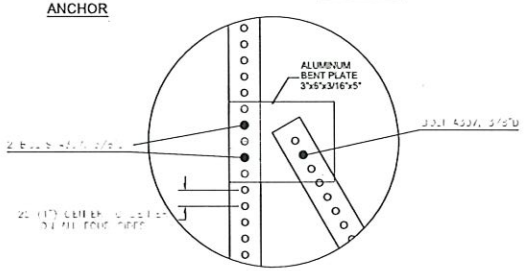


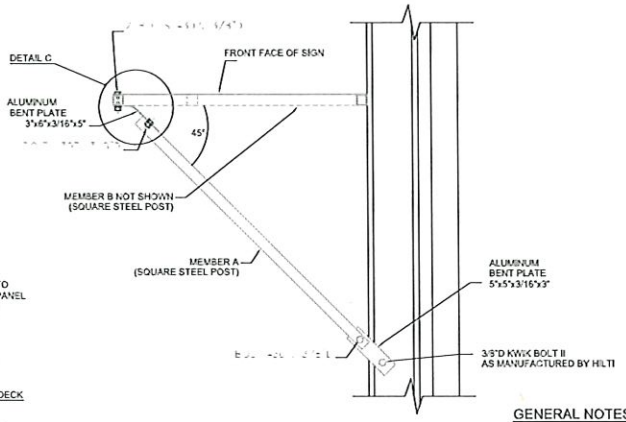
ELEVATION

3/8"D KWIK BOLT II AS MANUFACTURED BY HILTI

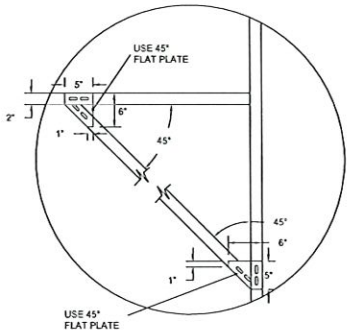
ANCHOR



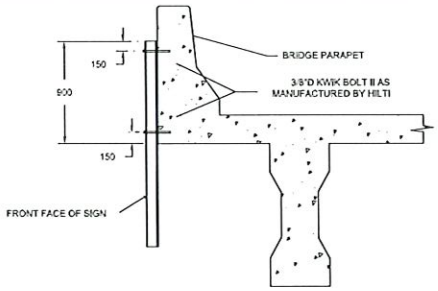
DETAIL C



PLAN



FLAT PLATE CONNECTION DETAIL



OVERHEAD MOUNTING

USE ONE STEEL FLANGED CHANNEL POST OR ONE SQUARE STEEL POST FOR SIGNS W12-2 600 (2') X 600 (2'), 750 (2'-6") X 750 2'-6"), AND 900 (3') X 900 (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:

1. FOR CANTILEVER SUPPORT MOUNTING ONLY SQUARE STEEL POST SHALL BE USED.
2. 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.
3. KWIK BOLT SHALL BE ZINC PLATED IN ACCORDANCE WITH ASTM B633, TYPE III FE/ZN 5.
4. THE CONTRACTOR SHALL FOLLOW HILTI INSTRUCTIONS FOR 3/8" KWIK BOLT II INSTALLATION.
5. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST TO STIFFENERS CONNECTION AS A SUBSIDIARY OBLIGATION.
6. ALL POSTS SHALL BE CONTINUOS IN LENGTH.
7. FOR OVERHEAD MOUNTING, THE SIGN SHALL BE INSTALLED WITHOUT REDUCTION IN THE EXISTING BRIDGE CLEARANCE.
8. THE CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST THE LENGTH OF STIFFENERS ACCORDING TO THE PANEL SHAPE.
9. THE CONTRACTOR SHALL USE THREE VANDAL RESISTANT FASTENERS TO ATTACH THE SIGN PANEL TO EACH STIFFENER. THE FASTENERS SHALL BE LOCATED ONE IN EACH EXTREME AND ONE IN THE CENTER OF STIFFENER.
10. THE CONTRACTOR SHALL ADJUST THE LENGTH OF BOLT TO PENETRATE THE ENTIRE THICKNESS OF THE NUT.
11. ALL ALUMINUM BENT 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.

CANTILEVER SUPPORT MOUNTING

1. FOR SIGN PANELS WITH A SIGN PANEL AREA EQUAL OR LESS THAN 18 SQUARE FEET AND WIDTH EQUAL OR LESS THAN 1,200 (45").
2. FOR OCTAGONAL, DIAMOND, TOURISTIC AND CIRCULAR SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH EQUAL OR LESS THAN 600 (24").

Yo, Hernan E. Lopez Baez, Ingeniero licencia 18104, certifico que soy el profesional que confeccionó, diseñó y preparó estos diseños y las especificaciones complementarias. También certifico que el diseño que incluyen estos diseños y especificaciones cumplen con los disposición aplicable del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción y Normas de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia de mi parte o de mis agentes o empleados o por otra personas con mi conocimiento, me hacen responsable de cualquier acción judicial y delito de perjurio bajo 18 USC 1001.

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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18104

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 5
STEEL POST - TYPICAL POST LOCATION FOR MOUNTING STANDARDS

FROM ITURREGUI TERMINAL TO SAN JUAN TERMINAL
MUNICIPALITES OF CAROLINA & SAN JUAN

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

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-3.16	SHEET NO. 88 OF 88