AUTORIDAD
METROPOLITANA DE
AUTOBUSES

SUBASTA FORMAL NÚM. 45-2223-003

REMODELACIÓN Y ROTULACIÓN DE PARADAS

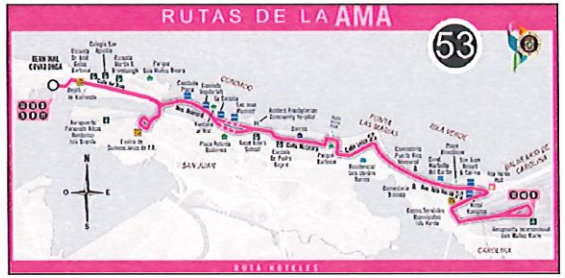
PLANOS RUTA 53

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

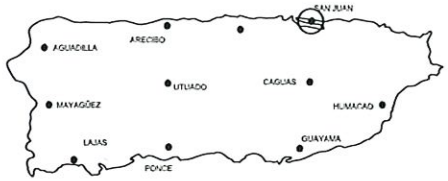
BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOPS

SCHEDULE OF DRAWING

SHEET NO.	DRAWING NO.	DESCRIPTION
1	TI-1	TITLE SHEET
2	GR-1.01	INDEX SHEET: ROUTE 53 | 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 53 | FROM SAN JUAN TERMINAL TO AIRPORT STATION		
7 - 32	TS-1.01 TO TS-1.26: ROUTE 53 | BUS STOPS	
ROUTE 53 | FROM AIRPORT STATION TO SAN JUAN TERMINAL		
33 - 57	TS-2.01 TO TS-2.24: ROUTE 53 | BUS STOPS	
58 - 73	TS-3.01 TO TS-3.16: TRAFFIC SIGNS DETAILS	



MUNICIPALITY OF SAN JUAN
LOCALIZACION 1:20,000



AUTORIDAD METROPOLITANA DE AUTOBUSES

FROM COVADONGA TERMINAL TO LUIS MUÑÓZ MARÍN AIRPORT
HIGHWAY PR-37, ASHFORD AVENUE, PR-16
DEL TREN ST. & AIRPORT AVENUE
MUNICIPALITY 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
PUERTO RICO

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

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. 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 ya sea por mí, más agencias 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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OWNER:

DRAWING TYPE: TI-1

SHEET: 1 OF 73

ROUTE 53 | BUS STOPS

ROUTE 53: FROM SAN JUAN TERMINAL TO AIRPORT STATION

NUMBER	SHEET	BUS STOP	BUS STOP LOCATION	MUNICIPALITY
			SAN JUAN TERMINAL	
7	TS-1.01	9	ST. THOMAS BLEV. BEFORE LIMBERGH ST.	SAN JUAN
8	TS-1.02	10	PASEO ISLA GRANDE INT. PASEO DE LAS FUENTES ST.	SAN JUAN
9	TS-1.03	11	ST. THOMAS BLEV. AFTER FERNÁNDEZ JUNCOS AVE.	SAN JUAN
10	TS-1.04	21	ASHFORD AVENUE BEFORE F. KRUG ST.	SAN JUAN
11	TS-1.05	22	MCLEARY AVENUE BEFORE OPPOSITE SIDE OF CARRIÓN COURT ST.	SAN JUAN
12	TS-1.06	23	MCLEARY AVENUE BEFORE LOS BAÑOS ST.	SAN JUAN
13	TS-1.07	24	MCLEARY AVENUE BEFORE MARÍA MOCZO ST.	SAN JUAN
14	TS-1.08	25	MCLEARY AVENUE BEFORE RAMPLA DEL ALMIRANTE ST.	SAN JUAN
15	TS-1.09	26	PARK BOULEVARD ST. BEFORE LAS AMÉRICAS ST.	SAN JUAN
16	TS-1.10	27	LAS AMÉRICAS ST. OPPOSITE SIDE OF TENIENTE LAVERGNE ST.	SAN JUAN
17	TS-1.11	28	LOÍZA ST. OPPOSITE SIDE OF SOLDADO CRUZ ST.	SAN JUAN
18	TS-1.12	29	LOÍZA ST. OPPOSITE SIDE OF CACIQUE ST.	SAN JUAN
19	TS-1.13	30	LOÍZA ST. INT. DONCELLA ST.	SAN JUAN
20	TS-1.14	31	ISLA VERDE AVENUE AFTER OPPOSITE SIDE OF INGA ST.	SAN JUAN
21	TS-1.15	32	ISLA VERDE AVE. INT. JÚPITER ST.	SAN JUAN
22	TS-1.16	33	ISLA VERDE AVE. INT. NEPTUNO ST.	CAROLINA
23	TS-1.17	34	ISLA VERDE AVE. AFTER BALDORIOTY DE CASTRO ESPRESSWAY EXIT	CAROLINA
24	TS-1.18	35	ISLA VERDE AVE. AFTER OPPOSITE SIDE OF CONDADO BEACH TOWER BUILDING	CAROLINA
25	TS-1.19	36	ISLA VERDE AVE. AFTER 6 ST.	CAROLINA
26	TS-1.20	37	ISLA VERDE AVE. BEFORE RODRÍGUEZ EMMA ST.	CAROLINA
27	TS-1.21	38	ISLA VERDE AVE. BEFORE TARTAK ST.	CAROLINA
28	TS-1.22	39	ISLA VERDE AVE. BEFORE DÍAZ WAY ST.	CAROLINA
29	TS-1.23	40	TRANSITCENTER ISLA VERDE BEFORE HIGHWAY PR-187	CAROLINA
30	TS-1.24	41	JOSÉ V. CARO AVENUE FRONT BUDGET CAR RENTAL	CAROLINA
31	TS-1.25	42	JOSÉ V. CARO AVENUE FRONT JET BLUE TERMINAL	CAROLINA
32	TS-1.26	43	JOSÉ V. CARO AVENUE FRONT AMERICAN AIRLINES TERMINAL	CAROLINA
			AIRPORT STATION	

ROUTE 53: FROM AIRPORT STATION TO SAN JUAN TERMINAL

NUMBER	SHEET	BUS STOP	BUS STOP LOCATION	MUNICIPALITY
			AIRPORT STATION	
34	TS-2.01	44	JOSÉ V. CARO AVENUE 3RD STOP IN AIRPORT	CAROLINA
35	TS-2.02	45	TRANSITCENTER ISLA VERDE AFTER HIGHWAY PR-187	CAROLINA
36	TS-2.03	46	ISLA VERDE AVE. AFTER DÍAZ WAY ST.	CAROLINA
37	TS-2.04	47	ISLA VERDE AVE. BEFORE TARTAK ST.	CAROLINA
38	TS-2.05	48	ISLA VERDE AVE. BEFORE OPPOSITE SIDE OF RODRÍGUEZ EMMA ST.	CAROLINA
39	TS-2.06	49	ISLA VERDE AVE. OPPOSITE SIDE OF 6 ST.	CAROLINA
40	TS-2.07	50	ISLA VERDE AVE. FRONT OF CONDADO BEACH TOWER BUILDING	CAROLINA
41	TS-2.08	51	ISLA VERDE AVE. OPPOSITE SIDE OF BALDORIOTY DE CASTRO ESPRESSWAY EXIT	CAROLINA
42	TS-2.09	52	ISLA VERDE AVE. BEFORE OPPOSITE SIDE OF JÚPITER ST.	CAROLINA
43	TS-2.10	53	ISLA VERDE AVE. BEFORE INTERNATIONAL ST.	SAN JUAN
44	TS-2.11	54	LOÍZA ST. INT. CAOBA ST.	SAN JUAN
45	TS-2.12	55	LOÍZA ST. AFTER CACIQUE ST.	SAN JUAN
46	TS-2.13	56	LOÍZA ST. INT. SOLDADO CRUZ ST.	SAN JUAN
47	TS-2.14	57	LAS AMÉRICAS ST. BEFORE TENIENTE LAVERGNE ST.	SAN JUAN
48	TS-2.15	58	PARK BOULEVARD ST. BEFORE SOLDADO SERRANO ST.	SAN JUAN
49	TS-2.16	59	MCLEARY AVENUE BEFORE RAMPLA DEL ALMIRANTE ST.	SAN JUAN
50	TS-2.17	60	MCLEARY AVENUE AFTER SANTA CECILIA ST.	SAN JUAN
51	TS-2.18	61	MCLEARY AVENUE BEFORE YARDLEY PLACE ST.	SAN JUAN
52	TS-2.19	62	MCLEARY AVENUE BEFORE CARRIÓN COURT ST.	SAN JUAN
53	TS-2.20	63	MCLEARY AVENUE BEFORE KING'S COURT ST.	SAN JUAN
54	TS-2.21	64	ASHFORD AVENUE BEFORE OPPOSITE SIDE OF DE DIEGO AVE.	SAN JUAN
55	TS-2.22	72	ST. THOMAS BLEV. BEFORE LIMBERGH ST.	SAN JUAN
56	TS-2.23	73	PASEO ISLA GRANDE BEFORE PASEO DE LAS FUENTES ST.	SAN JUAN
57	TS-2.24	74	ST. THOMAS BLEV. AFTER FERNÁNDEZ JUNCOS AVE.	SAN JUAN
			SAN JUAN TERMINAL	

Yo, Hernan E. López Báez, ingeniero, licencia 18134, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. Tambien, certifico que el diseño 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 es una por la, me agentes o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OCPE.

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LIC. 18134PE

BUS STOP SIGNAGE PROJECT - PHASE 1
INDEX SHEET: ROUTE 53 | BUS STOPS

FROM SAN JUAN TERMINAL TO AIRPORT STATION
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: GR-1.01	SHEET NO. 2 OF 73

ROUTE 53 | 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 638 - "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 BUSINESSES AND PRIVATE OWNERS. ALL THE MATERIALS, LABOR, EQUIPMENT, AND WORK NECESSARY FOR IMPLEMENTING THIS REQUIREMENT IS SUBSIDIARY OBLIGATION OF THE CONTRACT UNDER EXISTING PAY ITEMS.

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 ITURREGUI TERMINAL TO COVADONGA 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 IMPROVMENTS.

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, W-20-8	FLUORESCENT ORANGE	NON REFLECTIVE BLACK
R1-1	REFLECTIVE RED	REFLECTIVE WHITE

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
MAINTENACE OF TRAFFIC: NOTES AND DETAILS

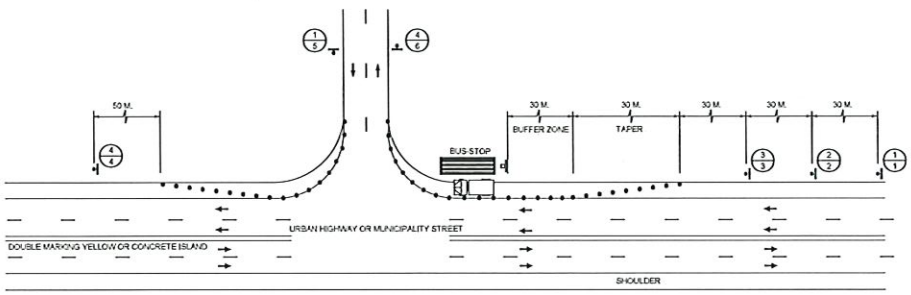
FROM SAN JUAN TERMINAL TO AIRPORT STATION
MUNICIPALITIES OF SAN JUAN AND CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

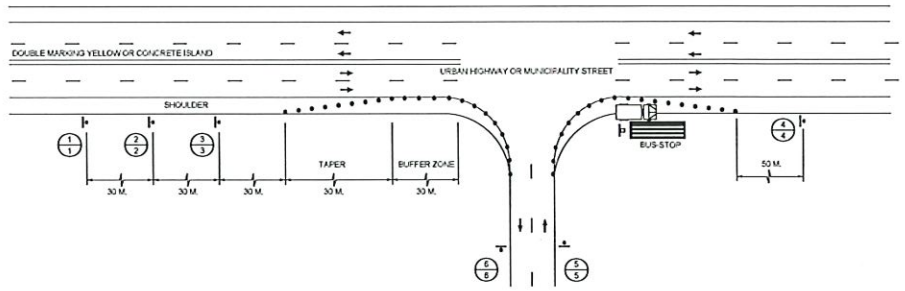
METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE JUNE 2022	
CHECKED BY: BEV	DRAWN BY: ABZ
DWG. TYPE: MOT-1.01	SHEET NO. 3 OF 73

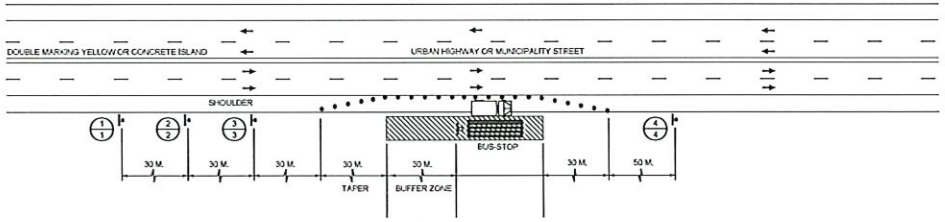
ROUTE 53 | BUS STOPS



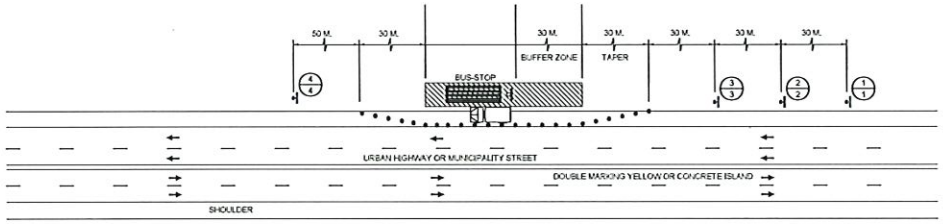
DETAIL - A



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

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
MAINTENACE OF TRAFFIC DETAILS

FROM SAN JUAN TERMINAL TO AIRPORT STATION
MUNICIPALITIES OF SAN JUAN AND CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

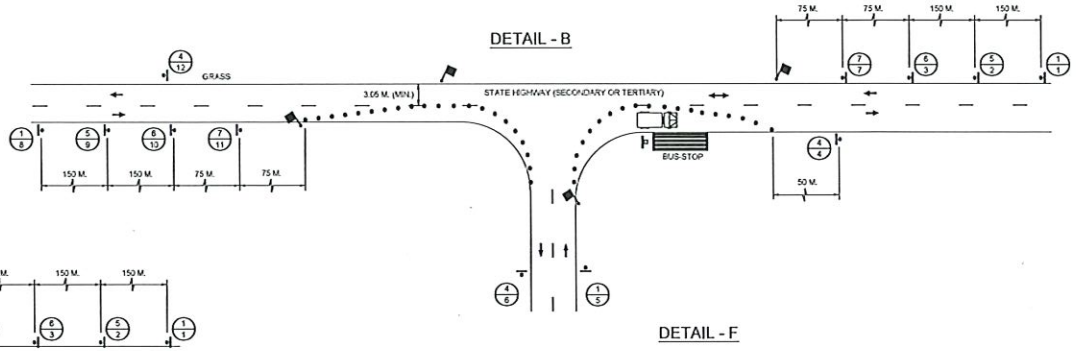
METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE JUNE 2022	
CHECKED BY: BEV	DRAWN BY: ABZ
DWG. TYPE: MOT-1.02	SHEET NO. 4 OF 73

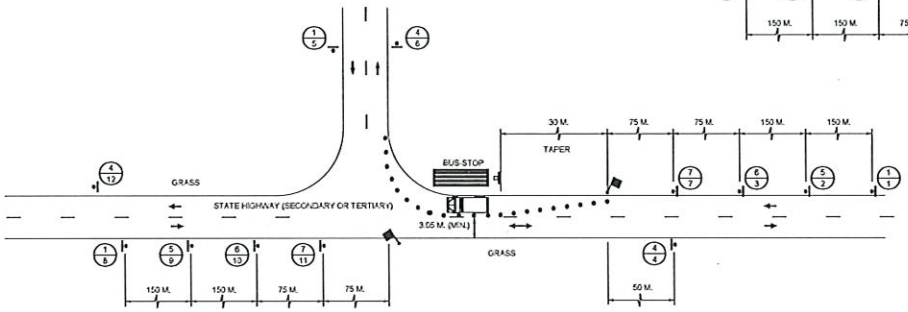
ROUTE 53 | BUS STOPS

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

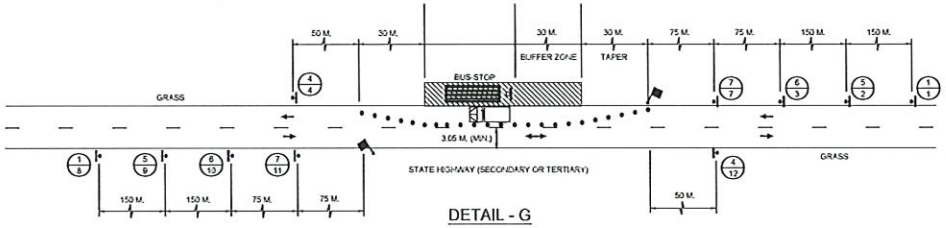


DETAIL - B



DETAIL - E

DETAIL - F



DETAIL - G

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

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18164PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
MAINTENACE OF TRAFFIC DETAILS

FROM SAN JUAN TERMINAL TO AIRPORT STATION
MUNICIPALITIES OF SAN JUAN AND CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

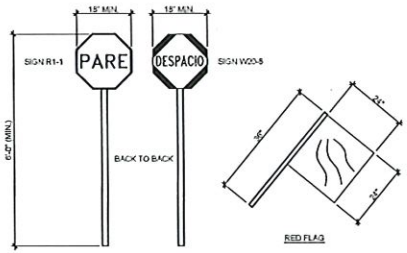
METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAW BY ABZ
DWG. TYPE MOT-1.03	SHEET NO. 5 OF 73

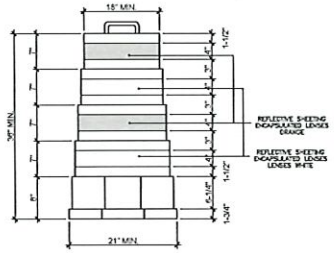
ROUTE 53 | BUS STOPS

TEMPORARY SIGN DATA

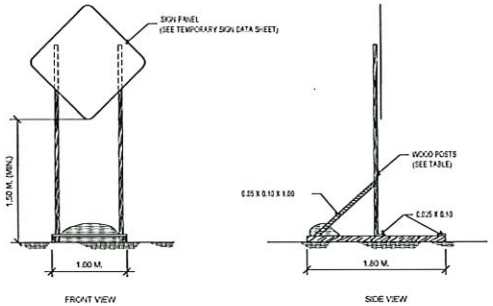
CODE NUMBER	LOCATION NUMBER	SIGN CODE	LEGEND	SIZE OF SIGN PANELS	OVERHEAD STRUCTURE TYPE	REFERENCE MANUAL	TOTAL ITEM
1	1, 5	W21-4	TRABAJO EN CARRETERA ADELANTE	36" X 36"	N/A	SEE MUTCD 2009 EDITION	1
2	2	W21-4	TRABAJO EN CARRETERA 80 M.	36" x 36"	N/A	SEE MUTCD 2009 EDITION	1
3	3	W21-4	TRABAJO EN CARRETERA 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. 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 Código de Construcción vigente de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier desviación leve o Modificación de los trabajos que se haya producido por desconocimiento o por negligencia que pueda por mi, 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.
PO Box 3040, PMB 427
Guraso, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
MAINTENACE OF TRAFFIC DETAILS

FROM SAN JUAN TERMINAL TO AIRPORT STATION
MUNICIPALITIES OF SAN JUAN AND CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

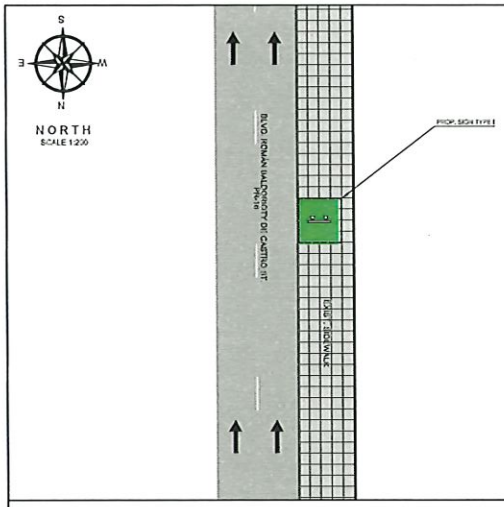
REVISION	
DATE JUNE 2022	
CHECKED BY BEV	DRAW BY. ABZ
DWG. TYPE MOT-1.04	SHEET NO. 6 OF 73

ROUTE 53 | BUS STOP #9

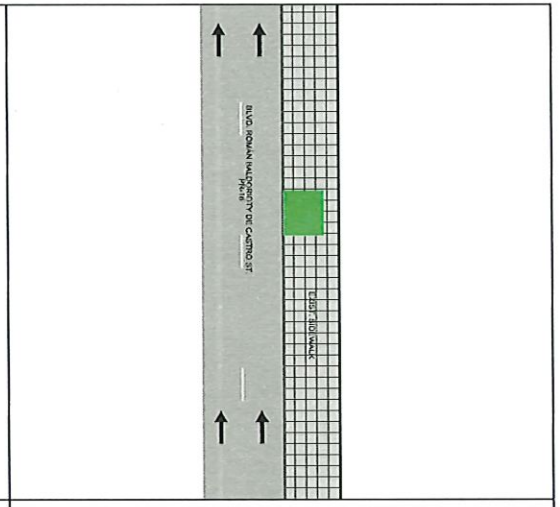
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

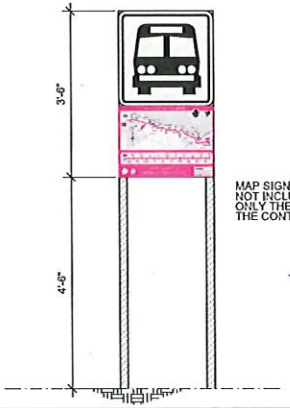


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#9



EXIST. CONDITIONS - ROUTE 53 | 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
- FRMBA 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 FRMBA 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 SECOND PLANTING STRIP FROM TRAFFIC SIGNAL SYSTEM BACKWARD. REFER TO PHOTO #3.

LOCATION PLAN
SCALE 1:20,000
18°27'24.03"N , 65° 5'18.45"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 certificaré, diseñé y preparé estos planos y las especificaciones complementarias. También certifico que el diseño, las obras 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 falsa o falsificación de los hechos que se haya producido por desconocimiento, por negligencia o no 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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HERNAN E. LOPEZ BAEZ
INGENIERO
LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 18184

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #9

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ST. THOMAS BLEV. BEFORE LIMBERGH ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

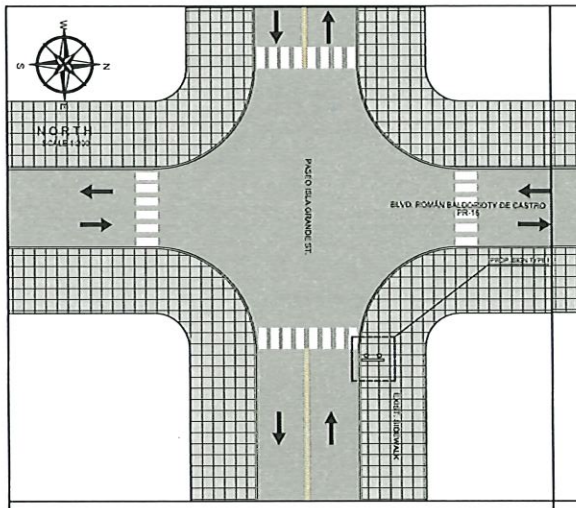
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.01	SHEET NO. 7 OF 73

ROUTE 53 | BUS STOP #10

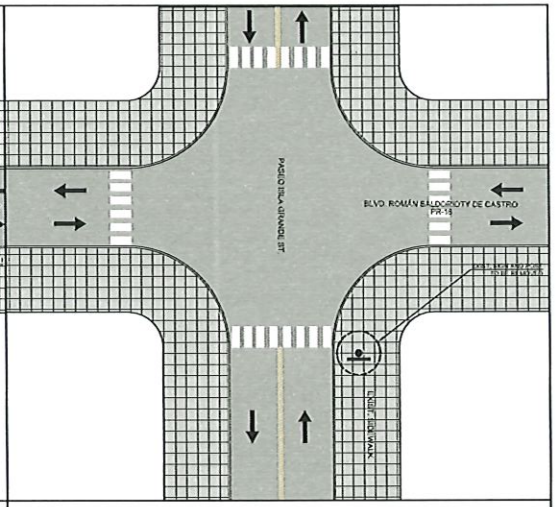
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

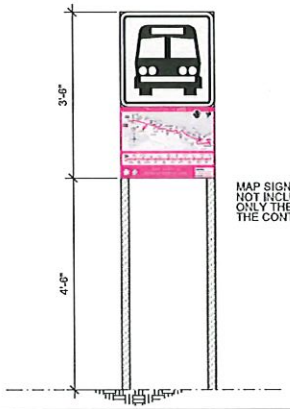


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#10



EXIST. CONDITIONS - ROUTE 53 | 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

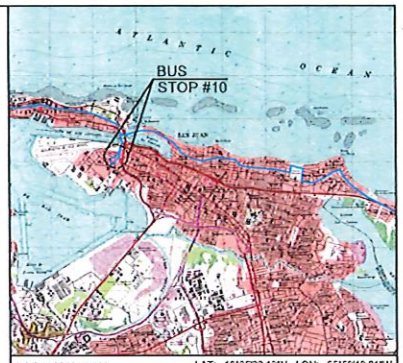
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRIMA 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 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 0.60 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN FIELD. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PUERTO RICO CONVENTION DISTRICT AUTHORITY.
8. ANY ITEM IMPACTED BY THE CONTRACTOR SHALL BE REPLACED WITH THE SAME STYLE OR MODEL. REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000

LAT: 18°25'22.13"N , LON: 65°59'19.81"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-51, certifico que soy el profesional que certificaré, diseño y/o proyecto estas planos y las 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 cambio sobre lo indicado en los mismos por desconocimiento, o por negligencia, o no por mí, mi agencia o empleados, o por otras personas con mi consentimiento, me hacer responsable de cualquier acción Solidaria de la ley de 50Pr.

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #10

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
PASEO ISLA GRANDE INT. PASEO DE LAS FUENTES ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

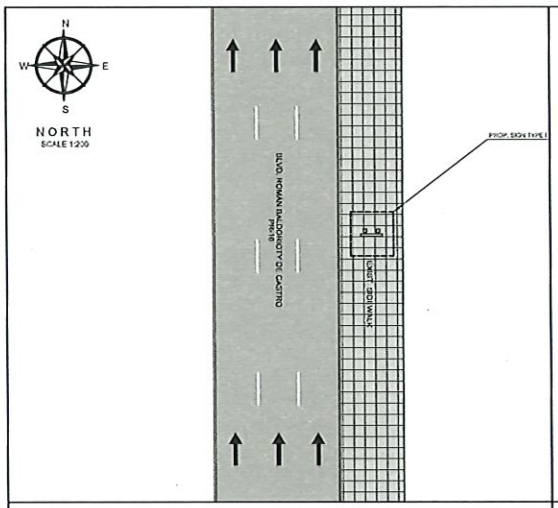
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.02	SHEET NO. 8 OF 73

ROUTE 53 | BUS STOP #11

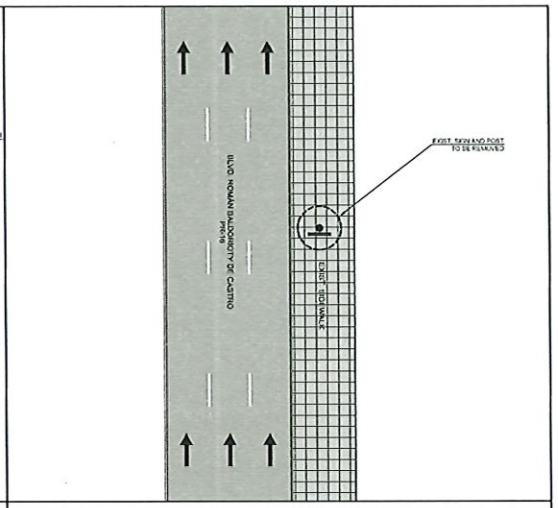
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

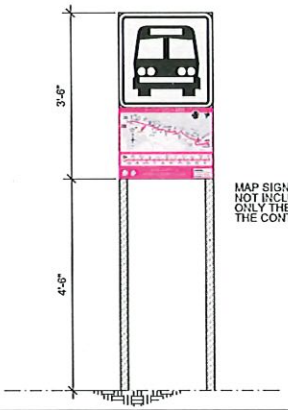


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#11



EXIST. CONDITIONS - ROUTE 53 | 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 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:

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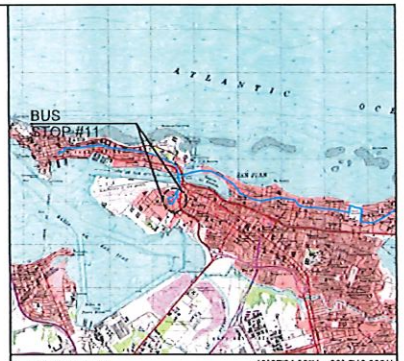
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TIES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PUERTO RICO CONVENTION DISTRICT AUTHORITY.
8. ANY TILE IMPACTED BY THE CONTRACTOR SHALL BE REPLACED WITH THE SAME STYLE OR MODEL. REFER TO PHOTO #1.



LOCATION PLAN
SCALE 1:20,000
18°27'24.08"N , 65° 51'6.66"W

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

Yo Hernan E. Lopez Baez Ingeniero Nº 34, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones complementarias. También certifico que el diseño que 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. Reconozco que cualquier modificación de los hechos que se haya probado por desconocimiento o por negligencia o no por el mío agencias complacientes o por otra persona por mi consultados, me hacer responsable de cualquier acción judicial y distribuido por la OGPe.

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #11

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ST. THOMAS BLEV. AFTER FERNÁNDEZ JUNCOS AVE.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

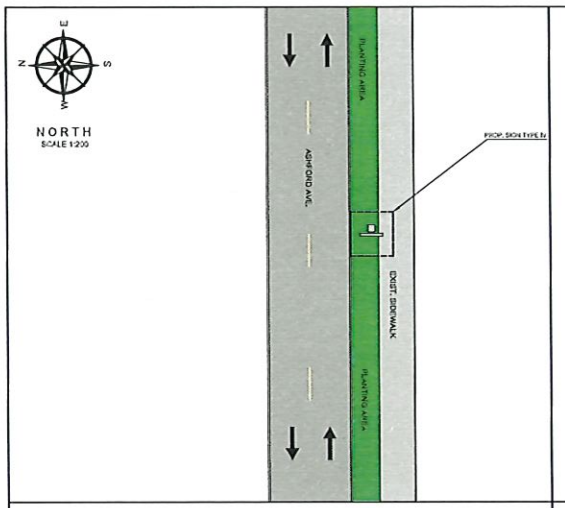
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.03	SHEET NO. 9 OF 73

ROUTE 53 | BUS STOP #21

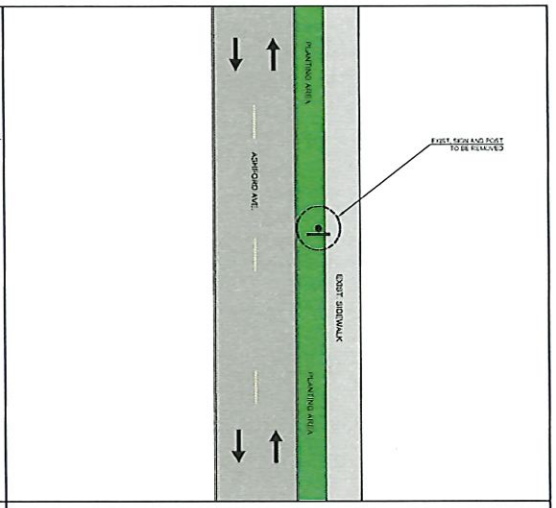
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

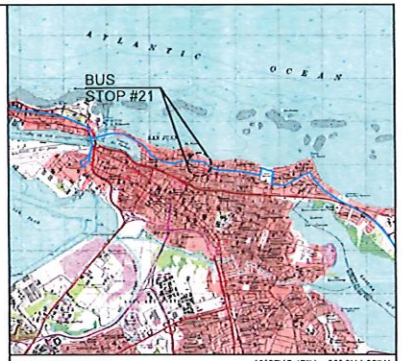


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#21



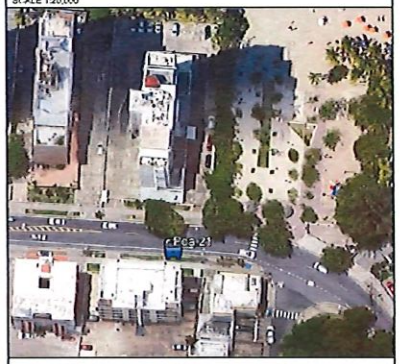
EXIST. CONDITIONS - ROUTE 53 | B.S.#21

2.5 0 5 15
SCALE 1:200



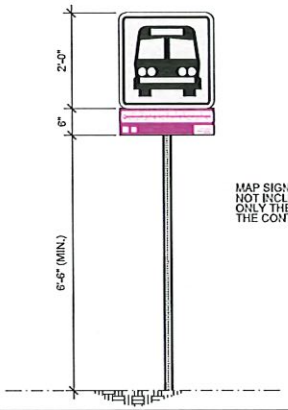
LOCATION PLAN
SCALE 1:20,000

18°27'15.47"N , 65° 3'44.62"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
- PRMBA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PRES PERMIT'S ING 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 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 #1.

Yo, Hernan E. Lopez Baez, Ingeniero, Licencia No 24, certifico que soy el profesional que corresponde, diseño y/o preparé estos planos y las especificaciones complementarias. Tambien certifico que el diseño que incluye diseño 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 y Corporaciones Públicas con jurisdicción. Reconozco que cualquier desviación o falta de verdad que se tenga al alcance por desconocimiento o por negligencia o mal por el, de agencias o empleados o por otras personas por el consultados, 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. 18349

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #21

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ASHFORD AVENUE BEFORE F. KRUG ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

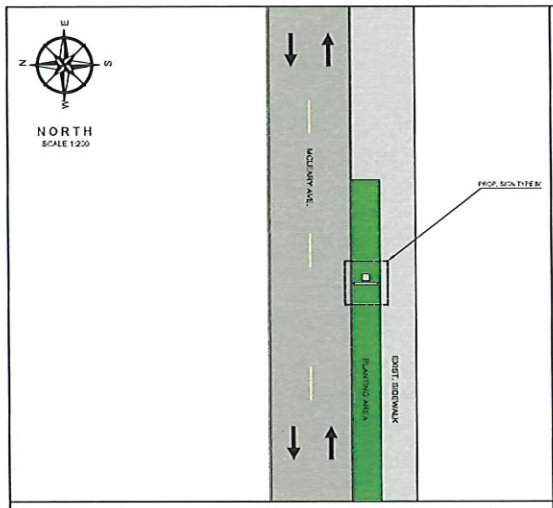
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.04	SHEET NO. 10 OF 73

ROUTE 53 | BUS STOP #22

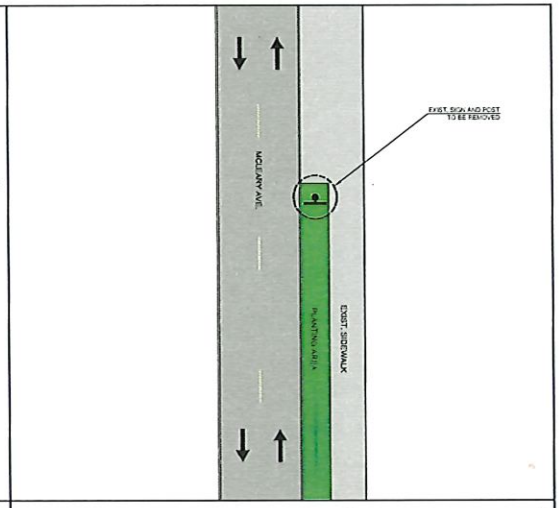
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

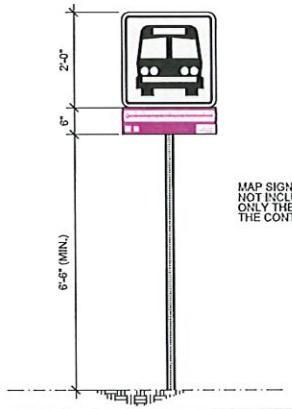


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#22



EXIST. CONDITIONS - ROUTE 53 | B.S.#22

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

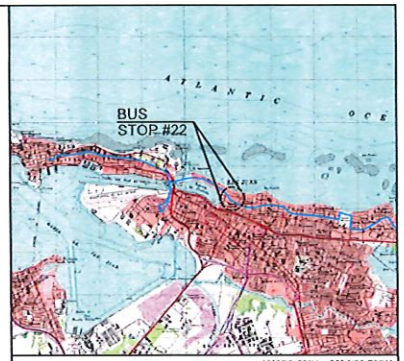
NOT TO SCALE

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

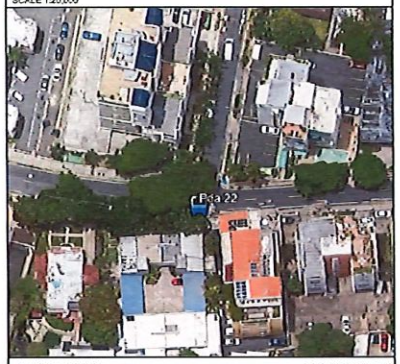
NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 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 0.61 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, IN FRONT OF THE TREE BUT AWAY FROM THIS. REFER TO P. KTO 43.



LOCATION PLAN
SCALE 1:20,000

18°27'9.50"N , 65° 3'33.70"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 mi, el profesional que suscribe del diseño, y/o proyecto aquí planos y las especificaciones, cumplen con las Normas, certifico que en diseño que Adhoc 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 y Cooperativas Públicas con jurisdicción. Reconozco que cualquier violación Mala o Malificación de la Ley que se haya producido por desconocimiento, o por negligencia, ya sea por mi, mi agentes o empleados o por otra persona por mi consentimiento, me hacer responsable de cualquier acción Judicial y de daños ante 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. 18-34PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #22

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
MCLEARY AVENUE BEFORE OPPOSITE SIDE OF CARRIÓN COURT ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

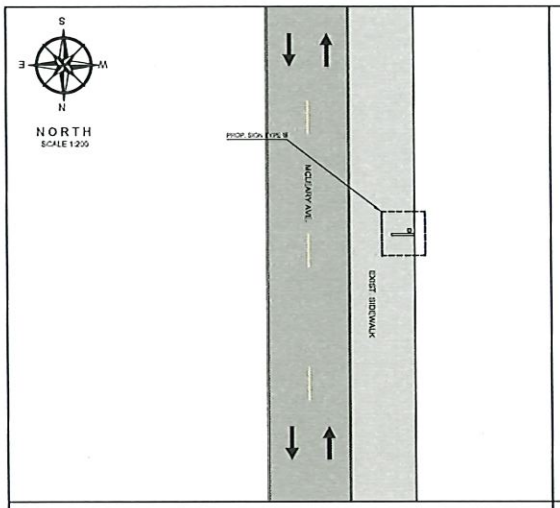
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.05	SHEET NO. 11 OF 73

ROUTE 53 | BUS STOP #23

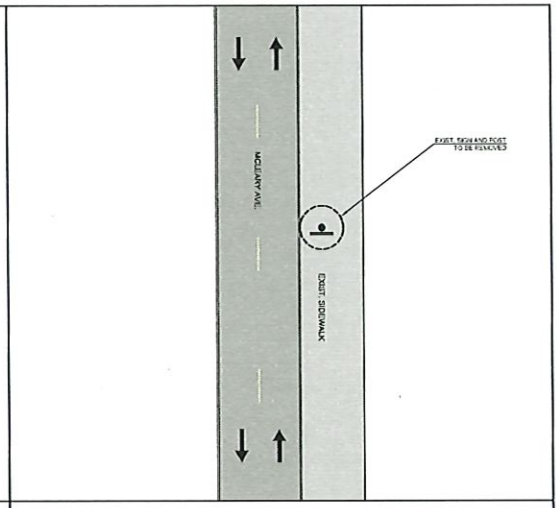
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

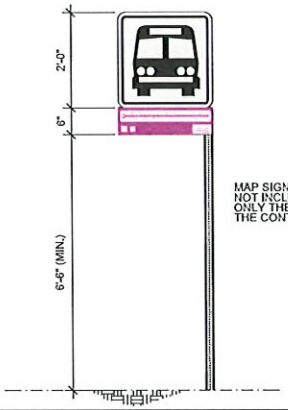


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#23



EXIST. CONDITIONS - ROUTE 53 | B.S.#23

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

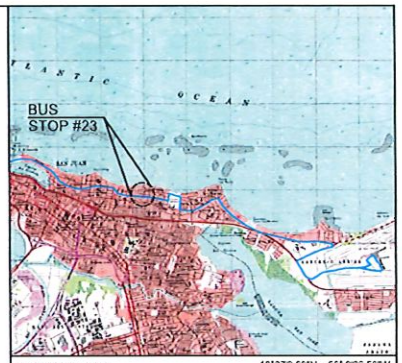
NOT TO SCALE

LEGEND:

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

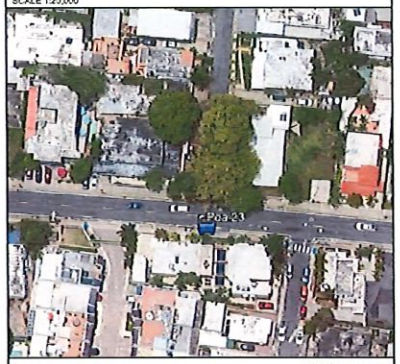
NOTES:

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 FRMBA 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, NEXT TO WALL PROPERTY. REFER TO PHOTO #3.



LOCATION PLAN
SCALE 1:20,000

18°27'9.09"N , 65° 3'26.58"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-24, certifico que soy el profesional que actualmente diseña y/o preparó estos planos y las especificaciones complementarias. También 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 las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación o alteración de los mismos que se haya producido por desconocimiento, o por negligencia, o no por mí, o agentes, empleados, o por otras personas con el consentimiento mío hacer responsable de cualquier acción judicial y/o administrativa por la DOPR.

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. 18-24PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #23

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
MCLEARY AVENUE BEFORE LOS BAÑOS ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

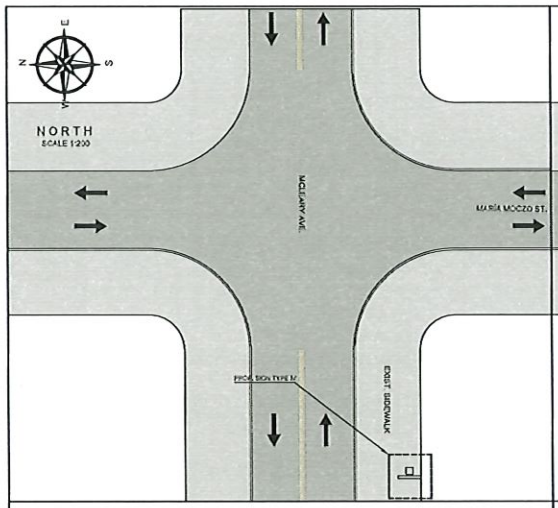
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.06	SHEET NO. 12 OF 73

ROUTE 53 | BUS STOP #24

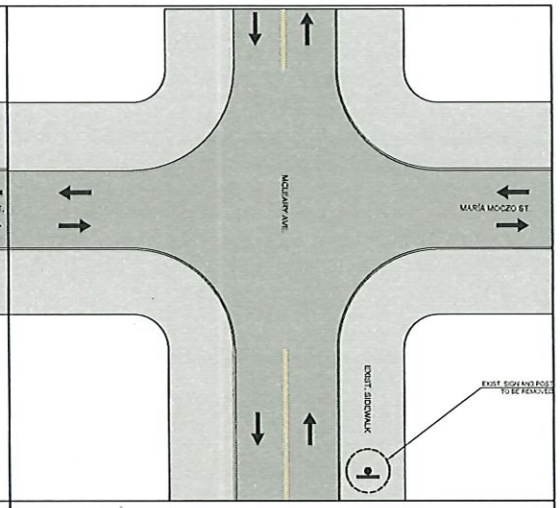
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#24

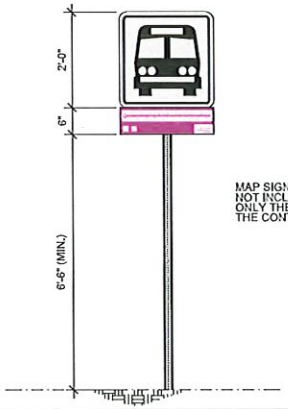


EXIST. CONDITIONS - ROUTE 53 | B.S.#24

2.5 0 5 15
SCALE 1:200

LOCATION PLAN 18°27'7.69"N , 65° 3'15.08"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
- FRIMBA 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 FRIMBA 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 SIDEWALK, NEXT TO A WALL STRIP (MURITO), REFER TO PHOTO #1.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que corresponde, diseño y/o preparo estos planos y las especificaciones, completo en sus formas, y que en el diseño 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 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 por mí consultada, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
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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. 18-54PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #24

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
MCLEARY AVENUE BEFORE MARÍA MOCZO ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

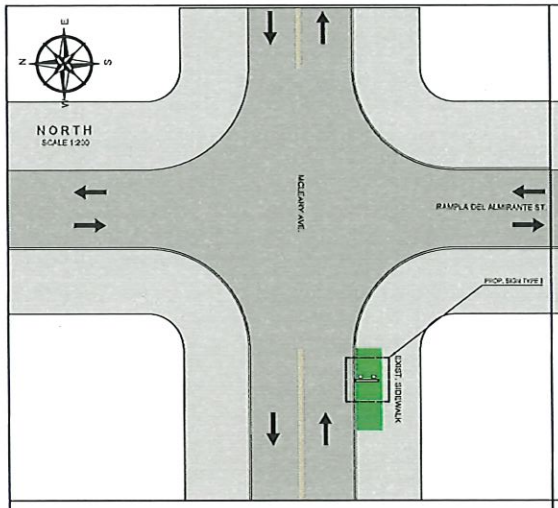
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.07	SHEET NO. 13 OF 73

ROUTE 53 | BUS STOP #25

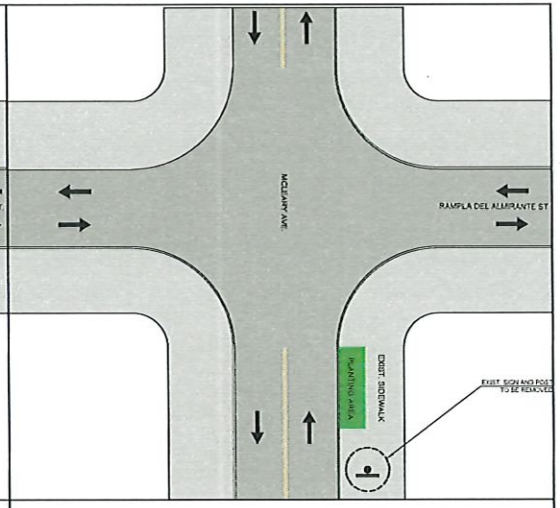
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

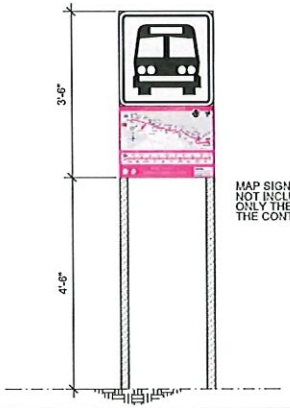


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#25



EXIST. CONDITIONS - ROUTE 53 | B.S.#25

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

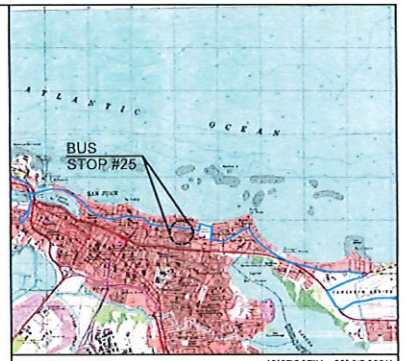
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- 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 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°27'5.97"N , 65° 3'5.06"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia # 24, certifico que soy el profesional que contribuí al diseño y/o preparé estos planos y las especificaciones, y que he verificado, formulado, certifico que en diseño 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, Reglamentaciones y Corporaciones Públicas con jurisdicción. Reconozco que cualquier omisión o falsificación de los hechos que se haya producido por desconocimiento o por negligencia, es una por mi, mis agentes o empleados, o por otra persona por mi considerada, 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. # 24PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #25

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
MCLEARY AVENUE BEFORE RAMPLA DEL ALMIRANTE ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
B.O.X. 195349
SAN JUAN, PR 00919-5349

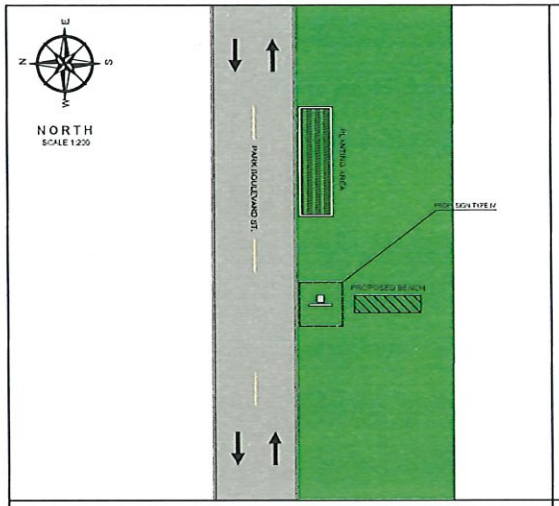
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.08	SHEET NO. 14 OF 73

ROUTE 53 | BUS STOP #26

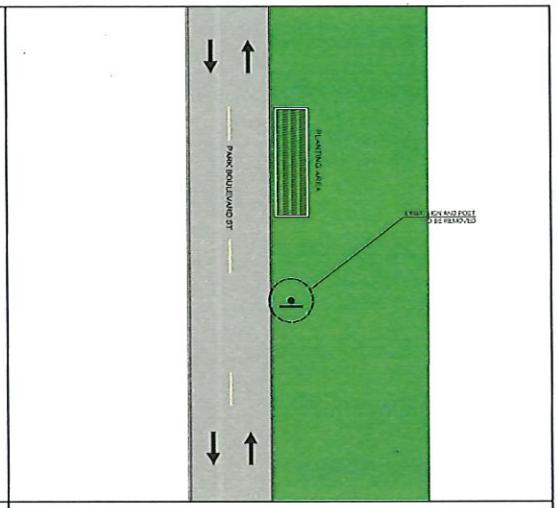
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

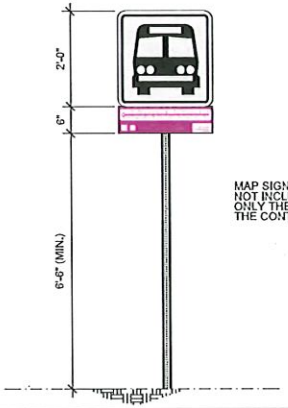


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#26



EXIST. CONDITIONS - ROUTE 53 | B.S.#26

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:

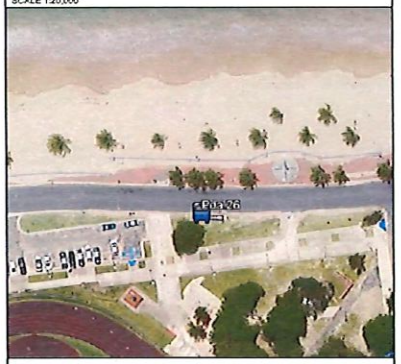
- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- FRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION
- PROPOSED BENCH

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 FRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN AND BENCH 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.

LOCATION PLAN
SCALE 1:20,000

18° 27' 8.69"N , 65° 2' 55.64"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 estos planos y las especificaciones conforme a dichos Reglamentos, 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 Aprobados de las Agencias Juntas Reglamentadoras de 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 otras personas por mi consentidas, me hacen responsable de cualquier acción judicial y disciplinaria por la DCPR.

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

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18546

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #26

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
PARK BOULEVARD ST. BEFORE LAS AMÉRICAS ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

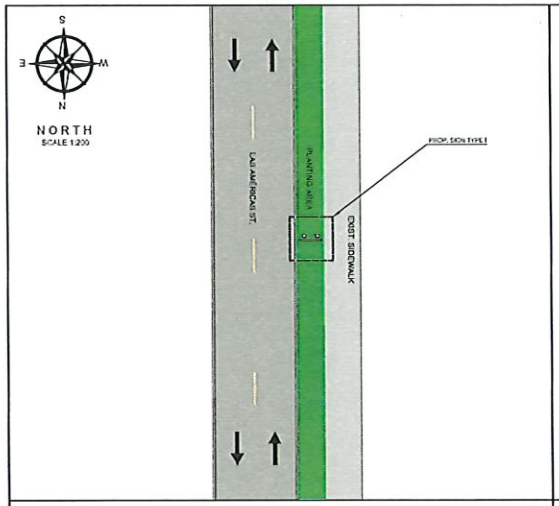
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.09	SHEET NO. 15 OF 73

ROUTE 53 | BUS STOP #27

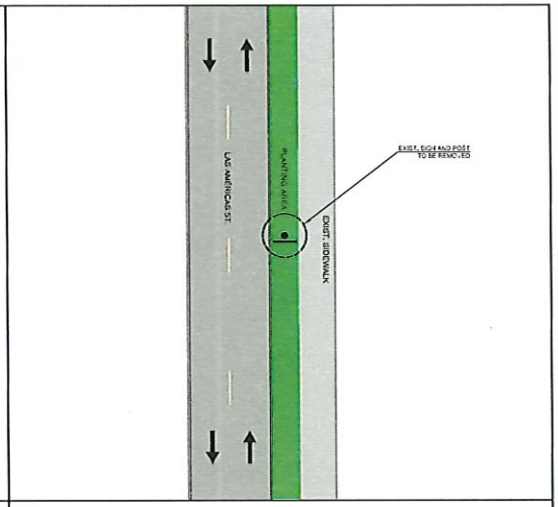
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

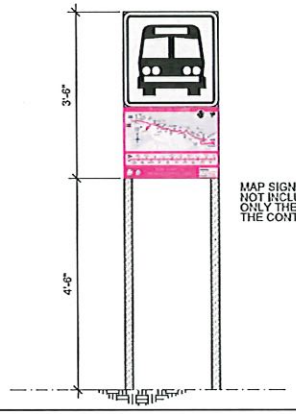


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#27



EXIST. CONDITIONS - ROUTE 53 | B.S.#27

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 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 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 MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 3.50 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE PLANTING AREA, REFER TO PHOTO 3.

LOCATION PLAN
SCALE 1:20,000

18°27'0.67"N , 66° 2'51.64"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 el profesional que corresponde diseñ y/o preparó estos planos y las especificaciones complementarias, formales, certifico que entiendo que dichos diseños 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 Junta Reglamentadoras o Cooperativas Públicas con jurisdicción. Reconozco que cualquier violación total o falsificación de los hechos que se vean precedidos 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 bajo el Reglamento de la OGPE.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Guaraó, 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 53 | BUS STOP #27

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
LAS AMÉRICAS ST. OPPOSITE SIDE OF TENIENTE LAVERGNE ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

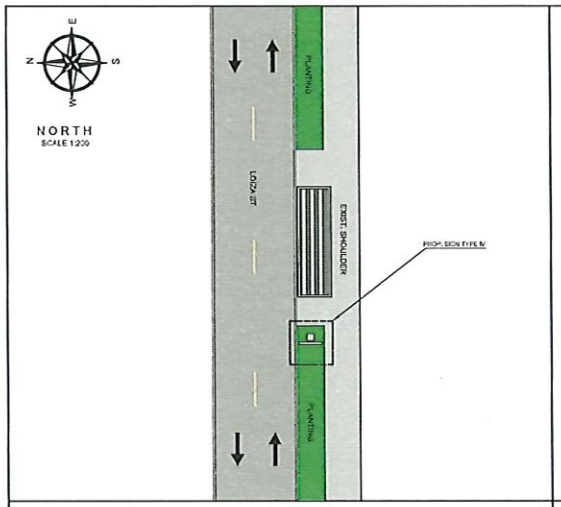
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.10	SHEET NO. 16 OF 73

ROUTE 53 | BUS STOP #28

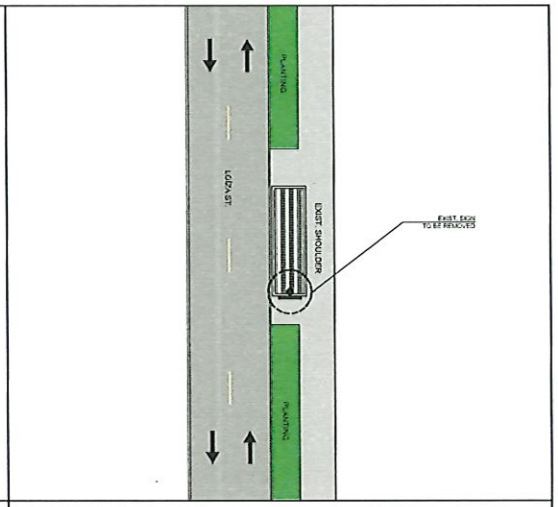
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

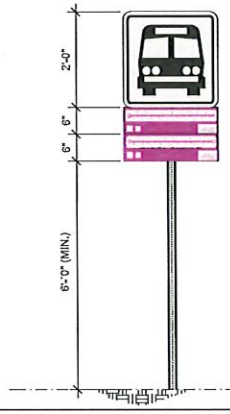


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#28



EXIST. CONDITIONS - ROUTE 53 | B.S.#28

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

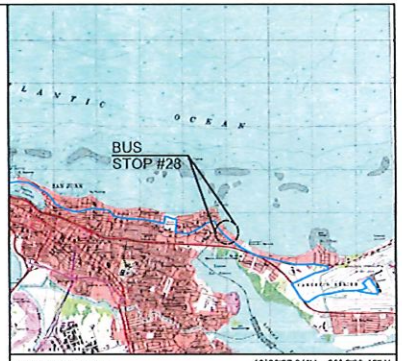
NOT TO SCALE

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 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 FROM THE BUS STOP SHELTER. THIS SIGN 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 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°26'57.31"N , 65° 2'39.45"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 confeccionó, diseñó y/o preparó estos planos y las especificaciones, cumplen en forma, formato y estilo que se entiende que estos planos 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, Reglamentaciones o Corporaciones Públicas con jurisdicción. Reconozco que cualquier cualquier falso 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 hacer 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, PE MEM
LIC. 18-54PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #28

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
LOÍZA ST. OPPOSITE SIDE OF SOLDADO CRUZ ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

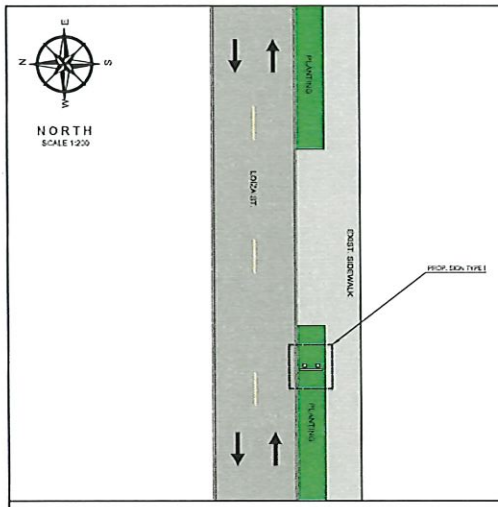
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.11	SHEET NO. 17 OF 73

ROUTE 53 | BUS STOP #29

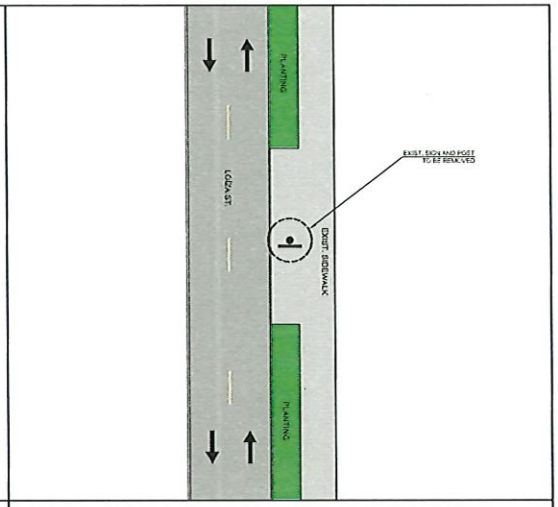
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

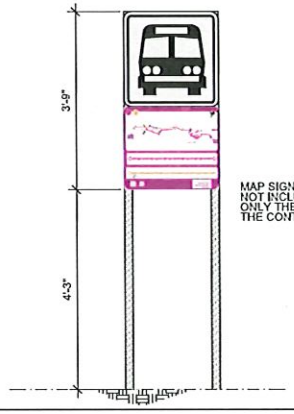


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#29



EXIST. CONDITIONS - ROUTE 53 | B.S.#29

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:

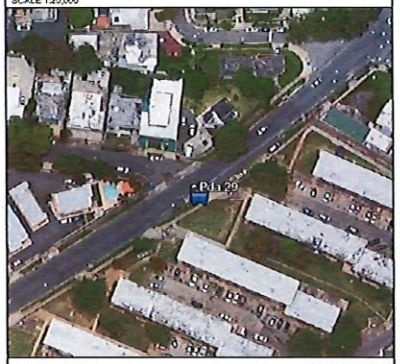
- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 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°27'1.57"N , 65° 2'31.40"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 certificó, diseñó y/o preparó estos planos y las especificaciones complementarias, formales, certifico que el diseño que aquí se refiere, y las alteraciones 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 o falsificación de los hechos que se hayan producido por desconocimiento o por negligencia, sea por mí, mis agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción Judicial y disciplinaria ante la OGPe.

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

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #29

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
LOÍZA ST. OPPOSITE SIDE OF CACIQUE ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

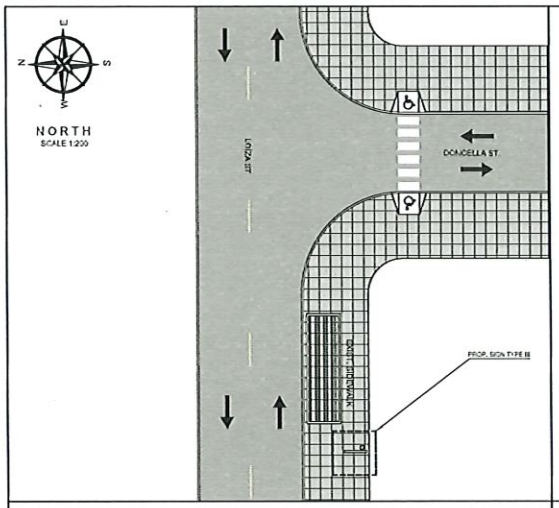
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.12	SHEET NO. 18 OF 73

ROUTE 53 | BUS STOP #30

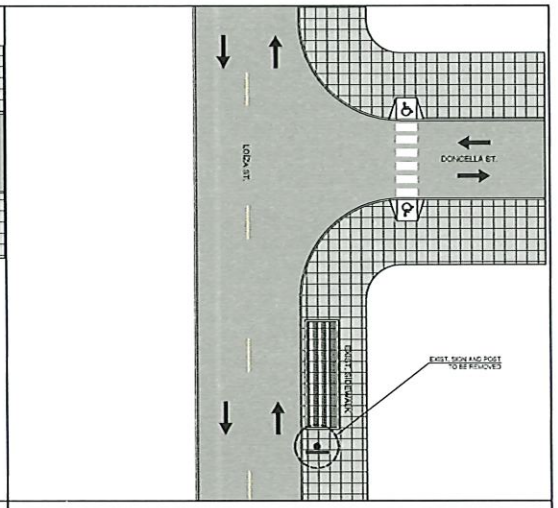
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

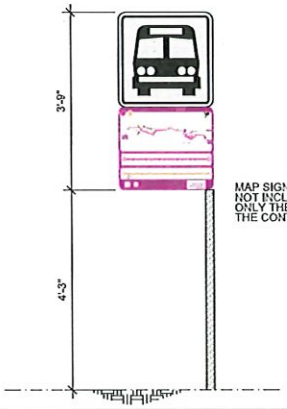


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#30



EXIST. CONDITIONS - ROUTE 53 | B.S.#30

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

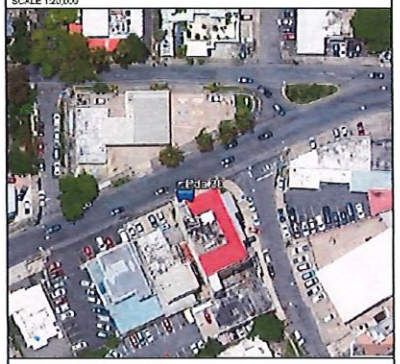
LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- FRIMSA 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 FRIMSA 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 0.62 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED CANTILEVER SIGN, NEXT TO THE LOIZA MALL (MUNITOP), REFER TO PLATE D-3.
8. THE CONTRACTOR MUST BE CAREFUL WITH UNDERGROUND SAFE LINES AND FIBER OPTICS UTILITIES.

LOCATION PLAN
SCALE 1:20,000
18°27'5.03"N , 65° 2'24.77"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 el profesional que conceptualizó, diseñó y preparó estos planos y las especificaciones completas aquí, 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 modificación falsa o falsificación de los hechos que se haya producido por desconocimiento, 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 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. 18184

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #30

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
LOÍZA ST. INT. DONCELLA ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

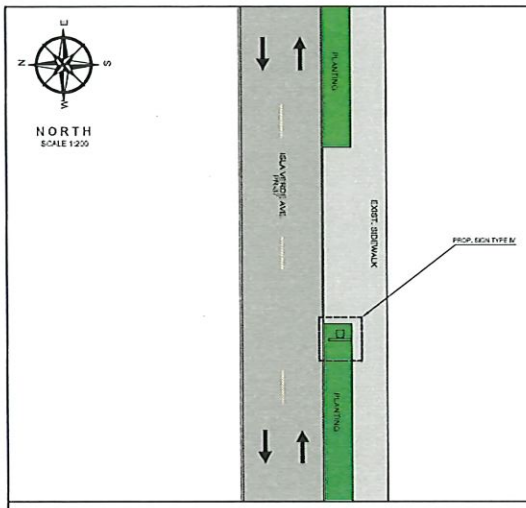
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.13	SHEET NO. 19 OF 73

ROUTE 53 | BUS STOP #31

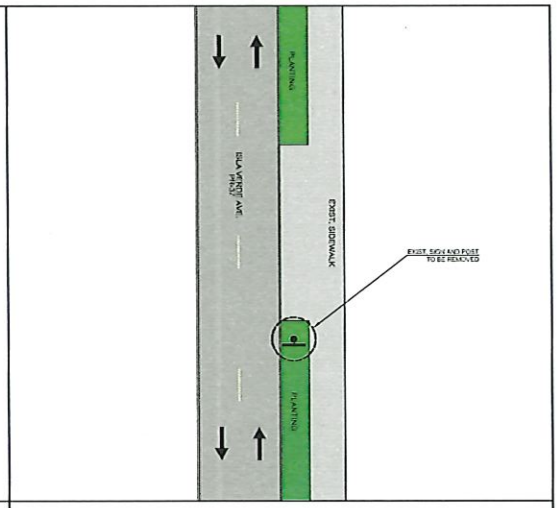
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

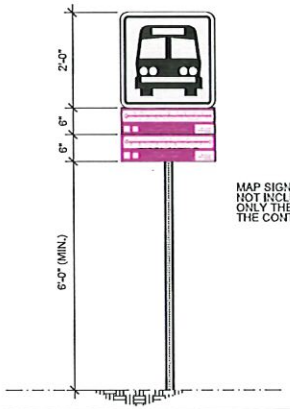


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#31



EXIST. CONDITIONS - ROUTE 53 | B.S.#31

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

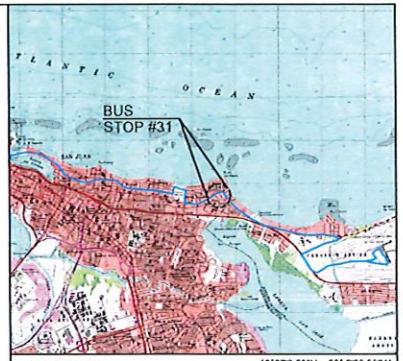
NOT TO SCALE

LEGEND:

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

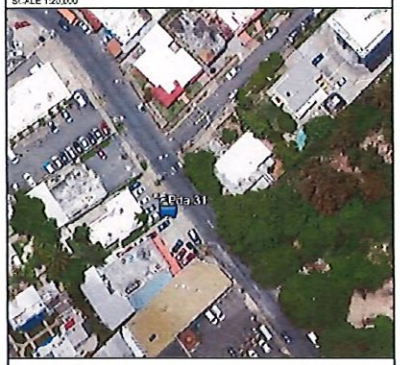
NOTES:

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 FRMBA 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°27'3.59"N , 65° 2'20.00"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 co-incluyendo diseño y/o preparó estas planos y las especificaciones completas aquí, Tambien certifico que el diseño que aparece en estas 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 cualquier falta o falsificación de la información 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 OGPe.

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #31

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ISLA VERDE AVENUE AFTER OPPOSITE SIDE OF INGA ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

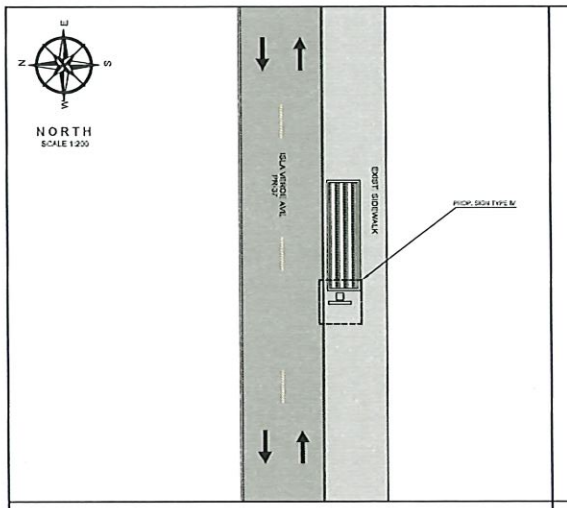
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.14	SHEET NO. 20 OF 73

ROUTE 53 | BUS STOP #32

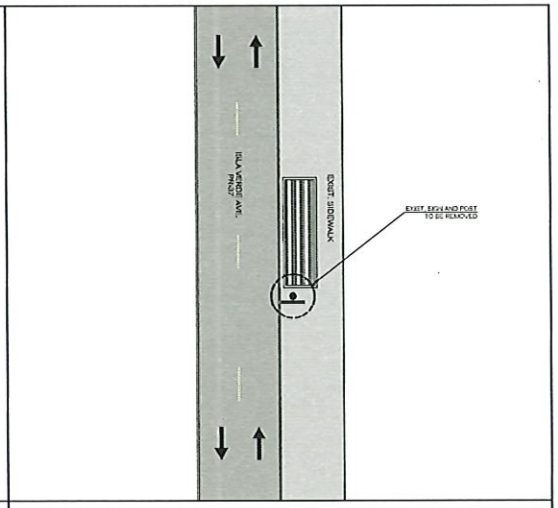
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

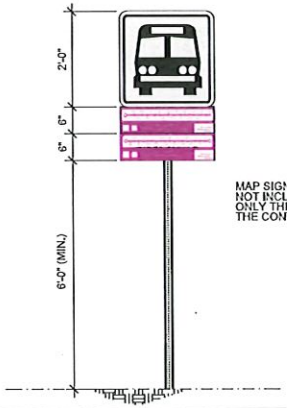


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#32



EXIST. CONDITIONS - ROUTE 53 | B.S.#32

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

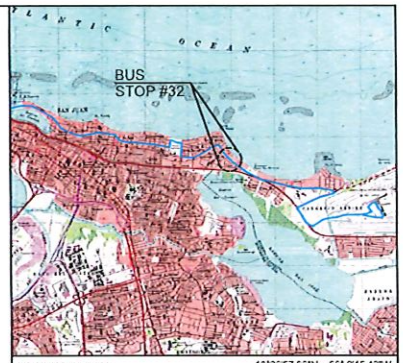
NOT TO SCALE

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 0.61 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN THE SIDEWALK AREA. REFER TO PHOTO 3.



LOCATION PLAN
SCALE 1:20,000

18°26'57.05"N , 65° 2'15.42"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/o preparó estos planos y las especificaciones completas de los Tramites certifico que he tomado en cuenta las Leyes, Reglamentos y especificaciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias, Juntas Reglamentadoras y Corporaciones Públicas con jurisdicción. Reconozco que cualquier cambio o modificación de la misma que se haya producido por desconocimiento o por negligencia de mi parte o de agentes o empleados, o por otras personas por mi consultadas, me hacen responsable de cualquier acción solidaria o individual 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. 18184PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #32

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ISLA VERDE AVE. INT. JÚPITER ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

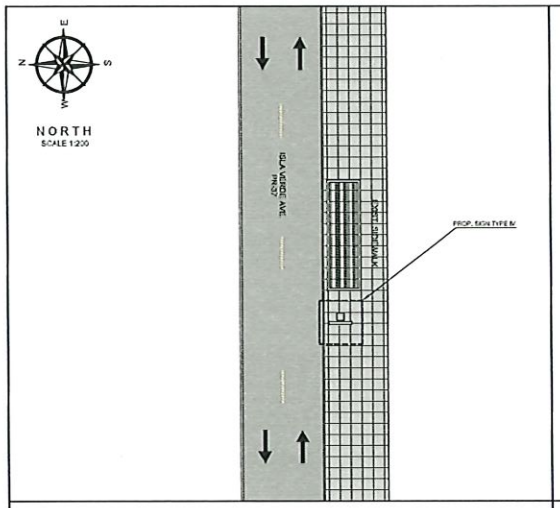
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.15	SHEET NO. 21 OF 73

ROUTE 53 | BUS STOP #33

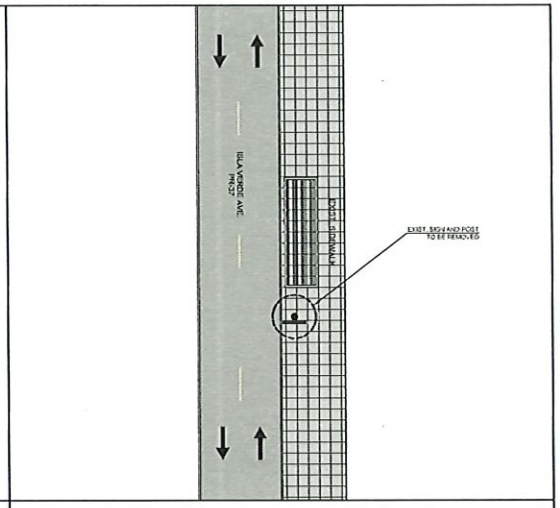
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

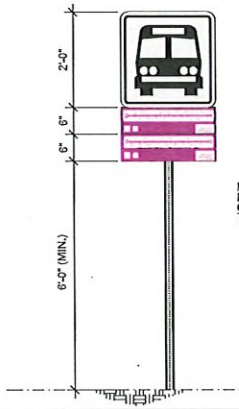


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#33



EXIST. CONDITIONS - ROUTE 53 | B.S.#33

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 INSTALL SIGN IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PMB OF THE MUNICIPALITY OF CAROLINA ABOUT THE EXISTING TILE TO INSTALL. BUY FOUR (4) TILES. 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.

LOCATION PLAN
SCALE 1:20,000

18°26'49.24"N , 65° 25.28"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 el profesional que certificó, diseñó y preparó estos planos y las especificaciones cumplen en los Estatutos vigentes que entonces que dichos planos 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 modificación hecha a la(s) obra(s) que se haya producido por desconocimiento, por negligencia o no por mí, mi agencia o empleados o por otras personas por mí consultadas me hace responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
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. # 18184

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #33

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ISLA VERDE AVE. INT. NEPTUNO ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

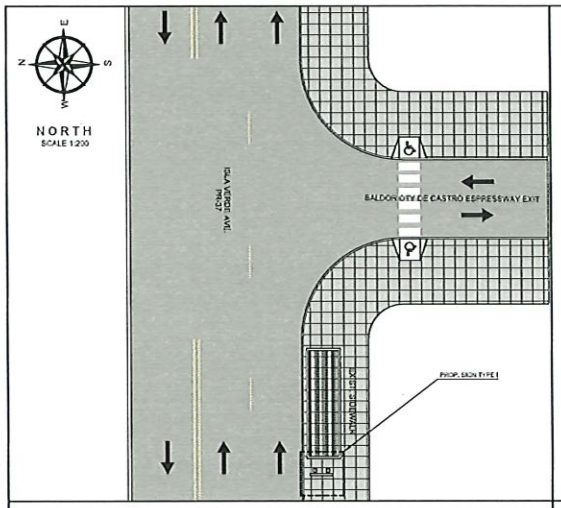
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.16	SHEET NO. 22 OF 73

ROUTE 53 | BUS STOP #34

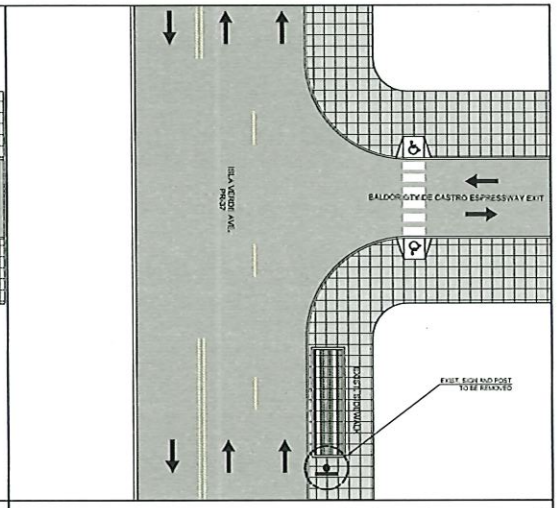
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#34

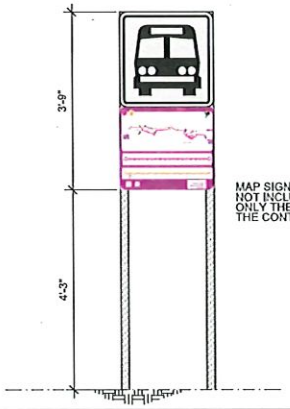


EXIST. CONDITIONS - ROUTE 53 | B.S.#34

2.5 0 5 15
SCALE 1:200

LOCATION PLAN
SCALE 1:20,000
18°26'48.68"N , 65° 2'1.77"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 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 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 SIGN BUTTLES. THE CONTRACTOR SHALL COORDINATE WITH PNG OF THE MUNICIPALITY OF CAROLINA ABOUT THE SAME TILES TO INSTALL. BUY FOUR (4) TILES. 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.

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 conforme a dichos Formales, certifico que he diseñado que dichas obras 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 modificación hecha o Modificación de la fecha que se haya producido por desconocimiento o por negligencia que me por mi, mi agencia o empleados, o por otra persona por mi consultada, me hacer responsable de cualquier acción Solidaria y/o Individual por la OGPe.

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

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 5495

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #34

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ISLA VERDE AVE. AFTER BALDORIOTY DE CASTRO EXPRESSWAY EXIT
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

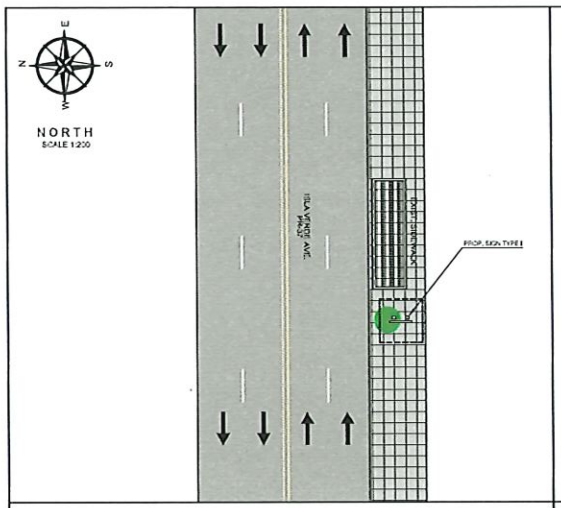
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.17	SHEET NO. 23 OF 73

ROUTE 53 | BUS STOP #35

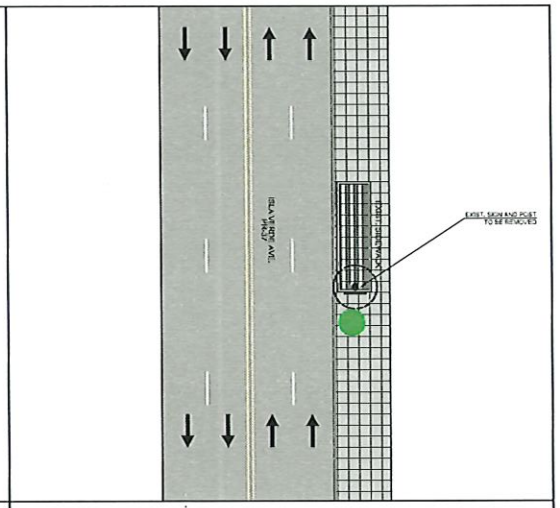
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

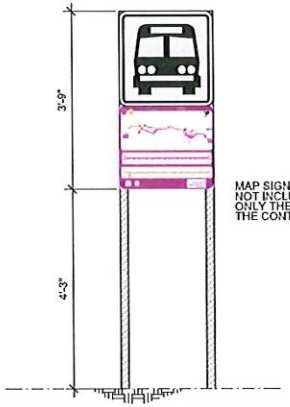


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#35



EXIST. CONDITIONS - ROUTE 53 | 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
- 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 FROM THE BUS STOP SHELTER. THIS SIGN 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 0.60 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN BETWEEN TILES AND PLANTING AREA. REFER TO PHOTO 3.
8. THE CONTRACTOR SHALL COORDINATE WITH THE DPW OF THE MUNICIPALITY OF CAROLINA THE INSTALLATION OF THE STRUCTURE.
9. ANY TILE IMPACTED BY THE CONTRACTOR SHALL BE REPLACED WITH THE SAME STYLE OR MODEL.
10. THE KILOMETER MARKER SHALL BE PROTECTED DURING THE CONSTRUCTION PROCEDURES.

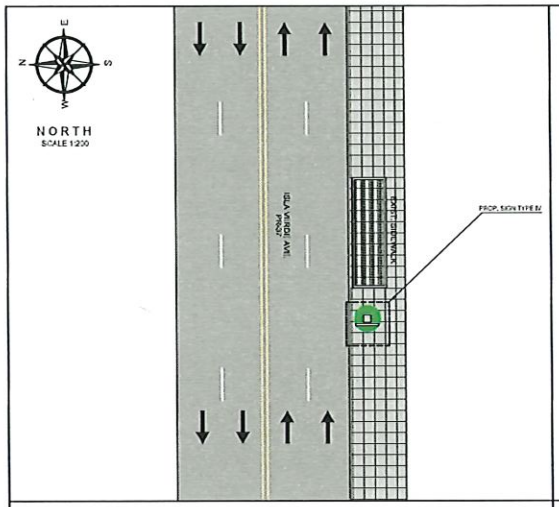
Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-34, certifico que soy el profesional que corresponde, diseñé y/o preparé estos diseños y las especificaciones, cumplen con las Normas aplicables al diseño sin limitarse a: Normas de Diseño de Carreteras, Puentes y Estructuras, Reglamento de Control de Accesos, Reglamento de Construcción, Reglamento de Planificación, Reglamento de Zonificación, Reglamento de Urbanización y Lotificación, Reglamento de Ordenamiento Territorial, Reglamento de Ordenamiento Ambiental, Reglamento de Ordenamiento Marino, Reglamento de Ordenamiento Turístico, Reglamento de Ordenamiento Histórico, Reglamento de Ordenamiento Económico, Reglamento de Ordenamiento Social, Reglamento de Ordenamiento Político, Reglamento de Ordenamiento Administrativo, Reglamento de Ordenamiento Juríd

ROUTE 53 | BUS STOP #36

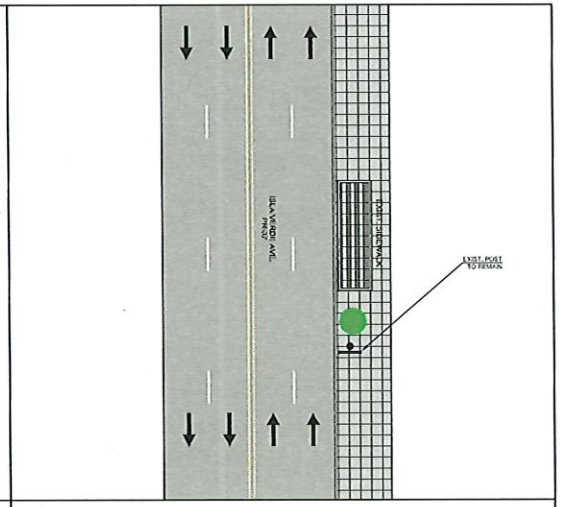
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION



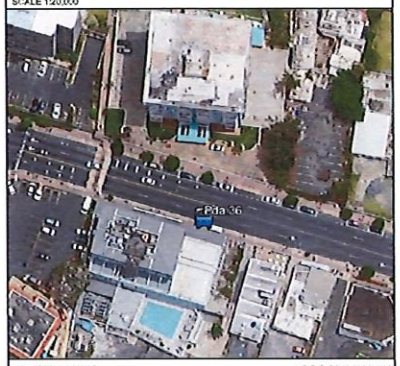
PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#36



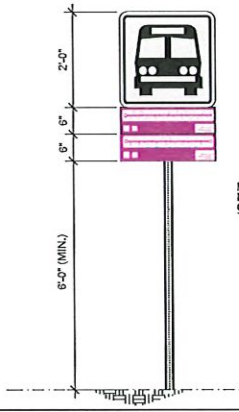
EXIST. CONDITIONS - ROUTE 53 | B.S.#36

2.5 0 5 15
SCALE 1:200

LOCATION PLAN
SCALE 1:20,000
18°26'36.56"N , 65° 1'36.24"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
- 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 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 0.60 M.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18184, certifico que soy el profesional que corresponde, diseñé y preparé estos planos y las especificaciones complementarias. También certifico que el diseño, los 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 error 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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Guaynabo, PR 00779
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #36

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ISLA VERDE AVE. AFTER 6 ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

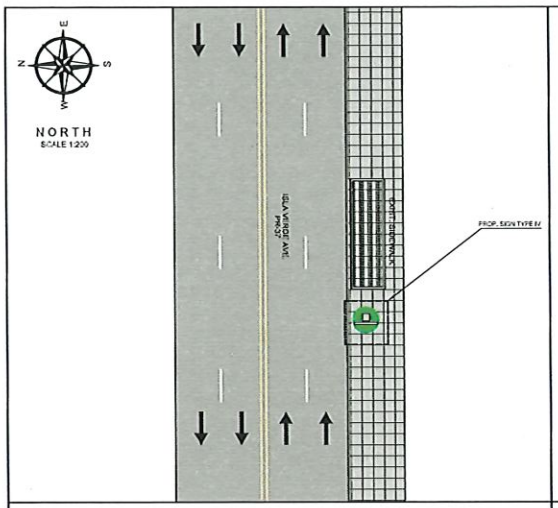
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.19	SHEET NO. 25 OF 73

ROUTE 53 | BUS STOP #37

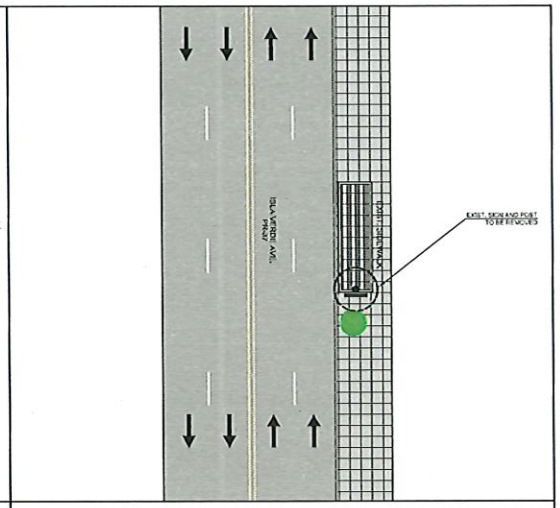
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

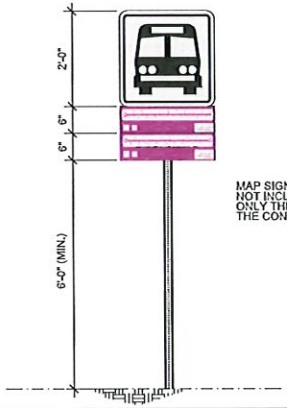


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#37



EXIST. CONDITIONS - ROUTE 53 | 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 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 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 FROM THE BUS STOP SHELTER. THIS SIGN SHALL BE DELIVER TO THE PRIMA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST FOUNDATION.
5. THE CONTRACTOR SHALL COORDINATE WITH THE DTPW OF THE MUNICIPALITY OF CAROLINA THE REMOVAL OF THE TREE LOCATED 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.
7. THE CONTRACTOR SHALL COORDINATE WITH THE DTPW OF THE MUNICIPALITY OF CAROLINA THE INSTALLATION OF THE STRUCTURE AND REMOVAL OR RELOCATION OF THE EXISTING TREE. REFER TO PHOTO 3.

LOCATION PLAN
SCALE 1:20,000

18°26'35.00"N , 66° 1'30.59"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 complementarias. Certifico que he tomado en cuenta 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 falsa o falsificación de los hechos que se haya producido por desconocimiento, por negligencia o a sea por mi, mis agentes o empleados, o por otras personas con mi consentimiento, me hacer responsable de cualquier acción judicial y distribuida por la DCPR.

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 53 | BUS STOP #37

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ISLA VERDE AVE. AFTER 6 ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

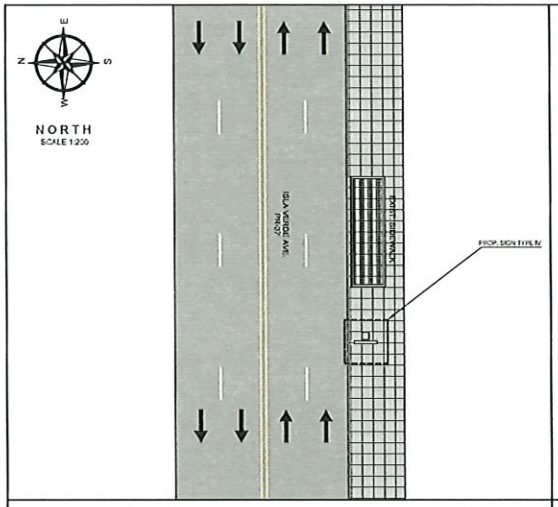
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.20	SHEET NO. 26 OF 73

ROUTE 53 | BUS STOP #38

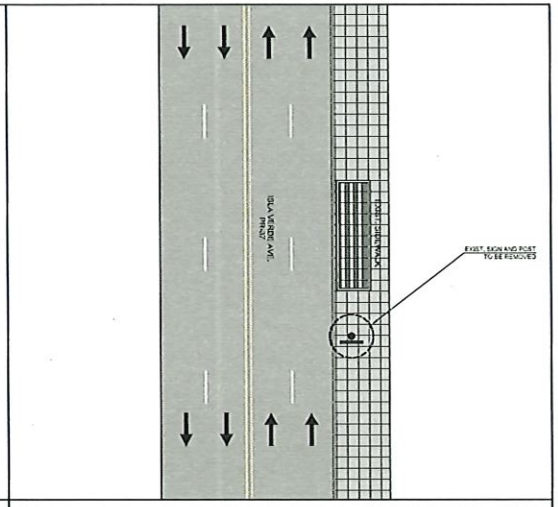
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

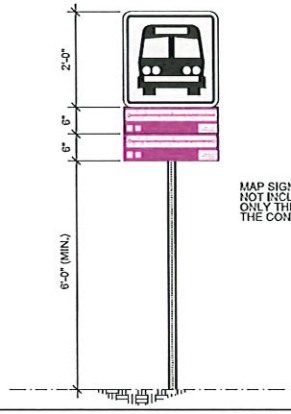


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#38



EXIST. CONDITIONS - ROUTE 53 | 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 IV

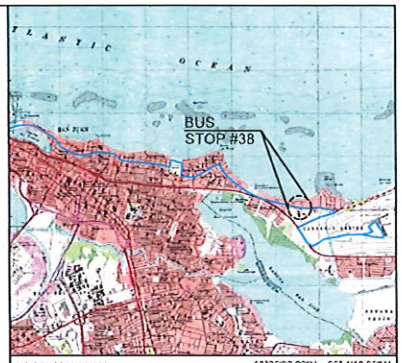
NOT TO SCALE

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 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 COORDINATE WITH THE DTPW OF THE MUNICIPALITY OF CAROLINA THE INSTALLATION OF THE STRUCTURE.
8. ANY TILE IMPACTED BY THE CONTRACTOR SHALL BE REPLACED WITH THE SAME STYLE OR MODEL.



LOCATION PLAN
SCALE 1:20,000

18°26'32.22"N , 66° 1'18.30"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 certificaré, diseñé y preparé estos planos y las especificaciones complementarias. Certifico, además que se diseñó por 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 Cooperativas Públicas con jurisdicción. Reconozco que cualquier dudo o error falso o falsificación de los hechos que se haya producido por desconocimiento o por negligencia de mi por mí, mis agentes o empleados, o por otras personas con mi conocimiento, me hacer responsable de cubrir la acción judicial y daños que la OGPe.

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

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 5495

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #38

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ISLA VERDE AVE. BEFORE TARTAK ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

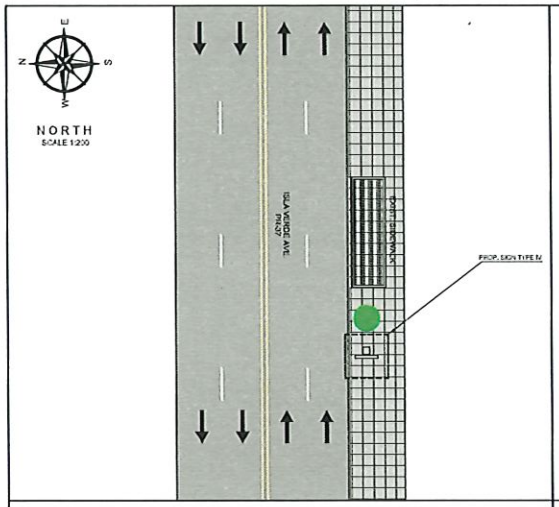
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.21	SHEET NO. 27 OF 73

ROUTE 53 | BUS STOP #39

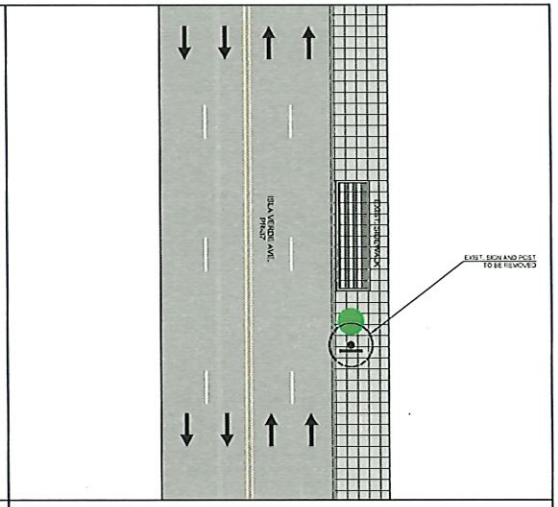
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

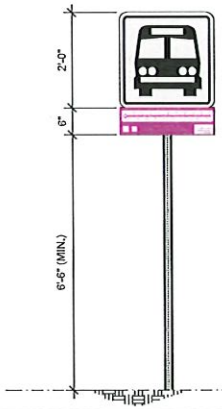


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#39



EXIST. CONDITIONS - ROUTE 53 | 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 IV

NOT TO SCALE

LEGEND:

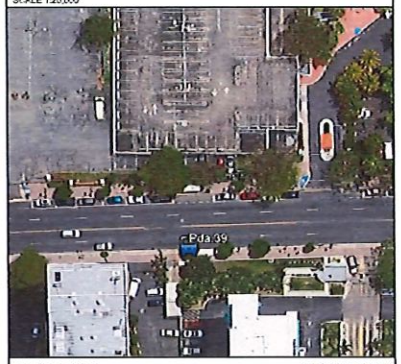
- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMIT 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 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 EXISTING CONCRETE TRADICIAN SHALL BE MOVED AT THE AREA DESIGNATED BY THE STAFF OF THE MUNICIPALITY OF CAROLINA PRIOR THE BEGINNING OF THE CONSTRUCTION WORKS.
8. THE CONTRACTOR SHALL COORDINATE WITH THE STAFF OF THE MUNICIPALITY OF CAROLINA THE INSTALLATION OF THE STRUCTURE, REFER TO PHOTO 3.
9. ANY TILE IMPACTED BY THE CONTRACTOR SHALL BE REPLACED WITH THE SAME STYLE OR MODEL.

LOCATION PLAN
SCALE 1:20,000

18°26'32.27"N, 65° 17.62"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero Licenciado de Sistemas certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones complementarias. Además certifico que el diseño que incluyen 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 modificación o alteración a los mismos que se haya producido por desconocimiento, por negligencia o mal por mí, mi agencia o empleados o por otra persona por mí desconocida me hacen responsable de cualquier acción judicial y/o 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
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 12-SAPE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #39

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ISLA VERDE AVE. BEFORE DÍAZ WAY ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

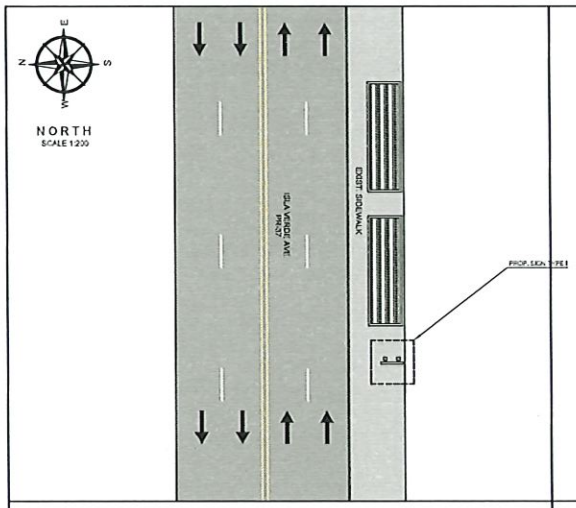
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.22	SHEET NO. 28 OF 73

ROUTE 53 | BUS STOP #40

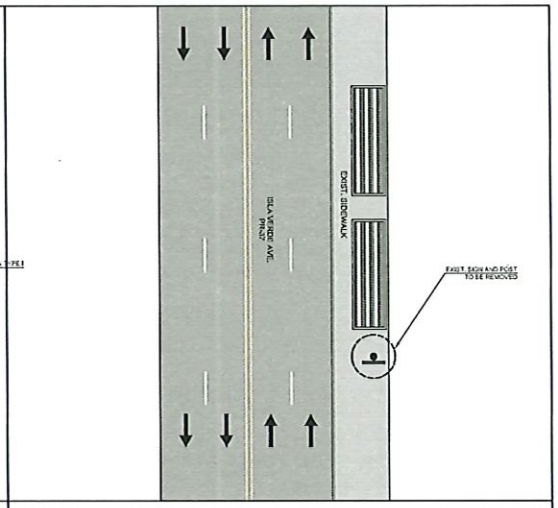
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

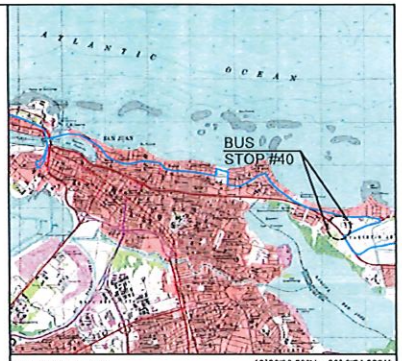


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#40



EXIST. CONDITIONS - ROUTE 53 | B.S.#40

2.5 0 5 15
SCALE 1:200

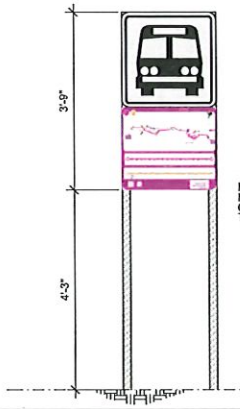


LOCATION PLAN
SCALE 1:20,000

18°26'30.53"N , 66° 0'54.82"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
- PRIMA EXCLUSIVE LANE (MIA 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 0.60 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN STRUCTURE IN THE THE SIDEWALK AREA. REFER TO PHOTO 3.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18184, certifico que soy el profesional que corresponde, diseño y/o preparo estos planos y las especificaciones, completo en los formales, certifico que en diseño 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, Reglamentaciones y Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación o alteración de los mismos que se haya producido por desconocimiento o por negligencia, ya sea por mí, mi agencia o empleados, o por otras personas con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la ley.

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. # 5476

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #40

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
TRANSITCENTER ISLA VERDE BEFORE HIGHWAY PR-187
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

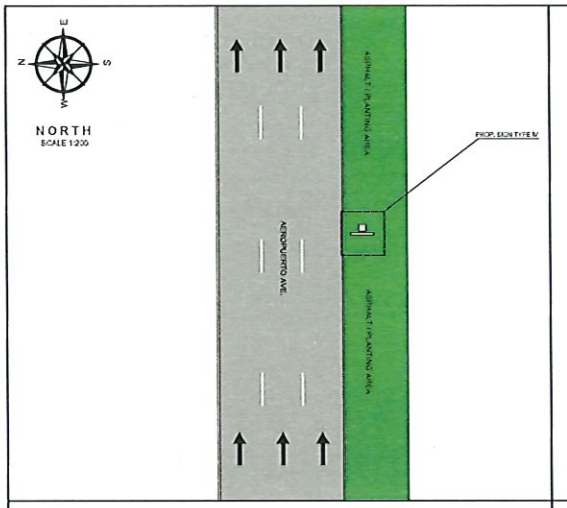
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.23	SHEET NO. 29 OF 73

ROUTE 53 | BUS STOP #41

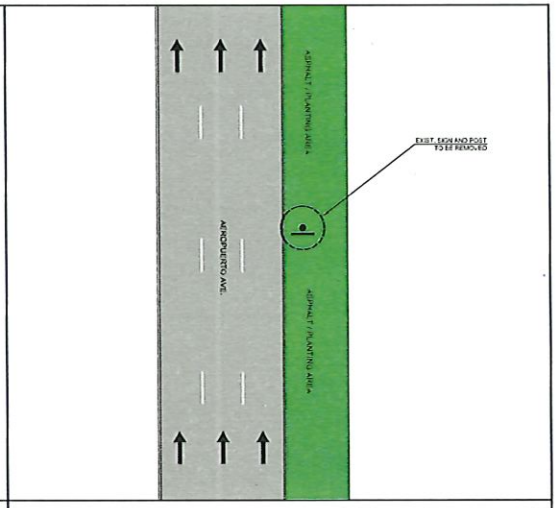
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

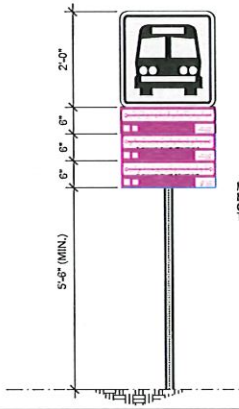


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#41



EXIST. CONDITIONS - ROUTE 53 | B.S.#41

2.5 0 5 15
SCALE 1:200



PROPOSED SIGN TYPE IV

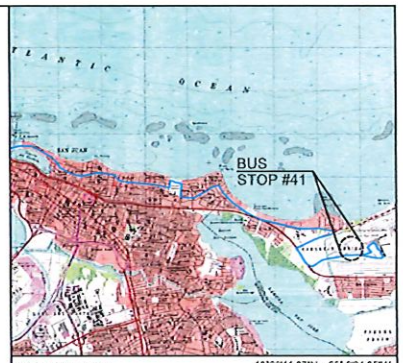
NOT TO SCALE

LEGEND:

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

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMIT 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 STRUCTURE IN THE PLANTING / ASPHALT AREA, REFER TO PHOTO 3.
7. THE CONTRACTOR SHALL COORDINATE WITH AEROSTAR THE INSTALLATION OF THE STRUCTURE.



LOCATION PLAN
SCALE 1:20,000

18°26'11.87"N , 65° 0'34.85"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-31, certifico que soy el profesional que actualmente diseña y/o prepara estas planos y las especificaciones, cumplen con las Normas, certifico que el diseño que diferen de otros 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 modificación o alteración de los hechos que se hayan producido por desconocimiento, o por negligencia, o no por mi, de agentes o empleados, o por otra persona por mi consultada, me hacer responsable de cualquier acción judicial y/o administrativa por la SOPU.

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. # 5 SAFE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #41

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
JOSÉ V. CARO AVENUE FRONT BUDGET CAR RENTAL
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

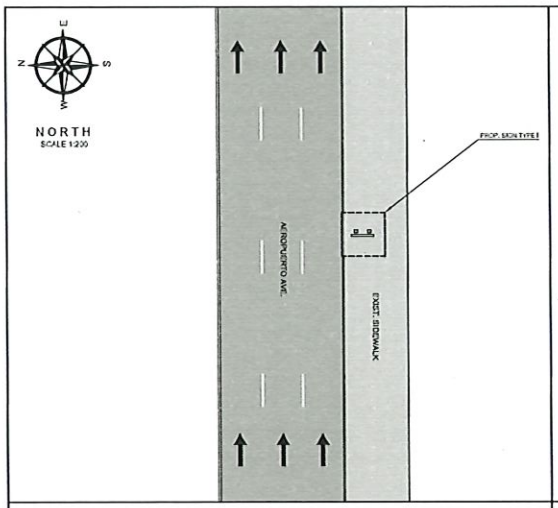
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.24	SHEET NO. 30 OF 73

ROUTE 53 | BUS STOP #42

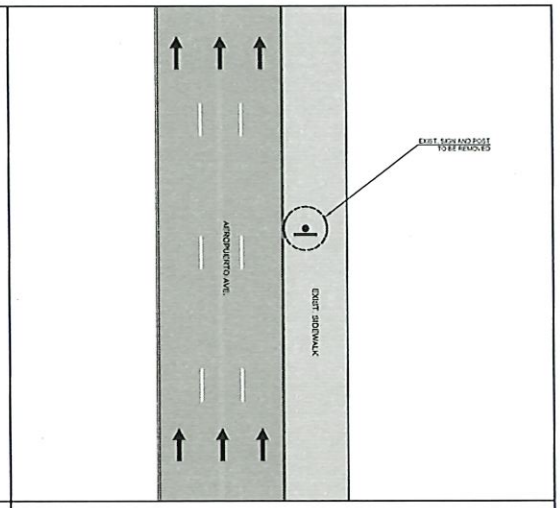
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

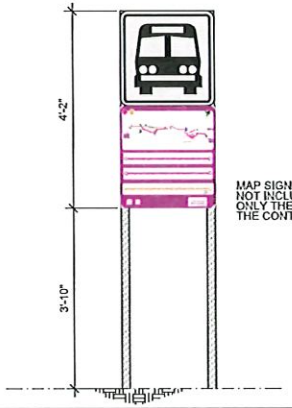


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#42



EXIST. CONDITIONS - ROUTE 53 | B.S.#42

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

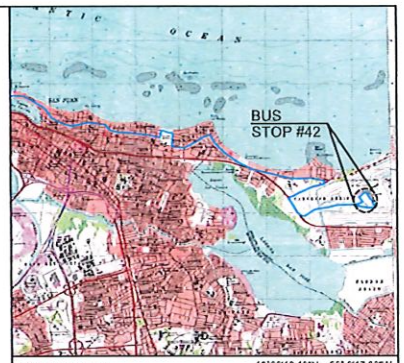
NOT TO SCALE

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 PRES PERMITS NO 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 AND SCREWS.
5. THE MINIMUM DISTANCE OF THE LATERAL LOCATION OF THE EDGE OF THE SIGN TO THE EXISTING ROAD CURB SHALL BE 3.81 M.
6. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN STRUCTURE IN THE SIDEWALK AREA WITH METAL PLATE FOUNDATION, NOT EXCAVATION. REFER TO PHOTO 2 & 3.
7. THE CONTRACTOR SHALL COORDINATE WITH AEROSTAR THE INSTALLATION OF THE STRUCTURE.



LOCATION PLAN
SCALE 1:20,000

18°26'10.19"N , 65° 0'17.65"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 certificaré, diseño y/o preparé estos planos y las especificaciones complementarias. Certifico, además, que el diseño que ofrezco 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 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 otras personas con mi conocimiento, 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
INGENIERO LICENCIADO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 5-PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #42

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
JOSÉ V. CARO AVENUE FRONT JET BLUE TERMINAL
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

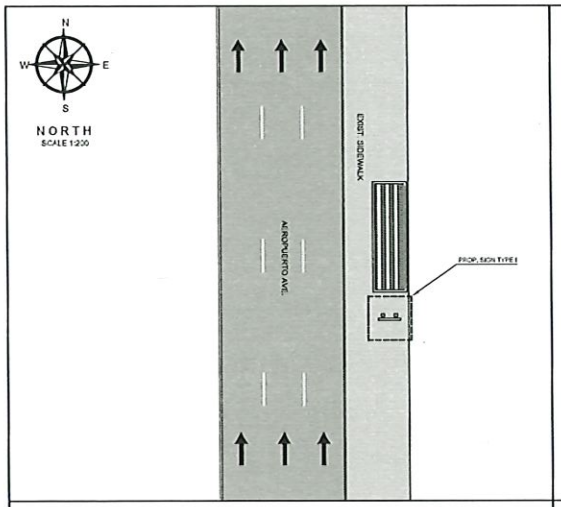
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.25	SHEET NO. 31 OF 73

ROUTE 53 | BUS STOP #43

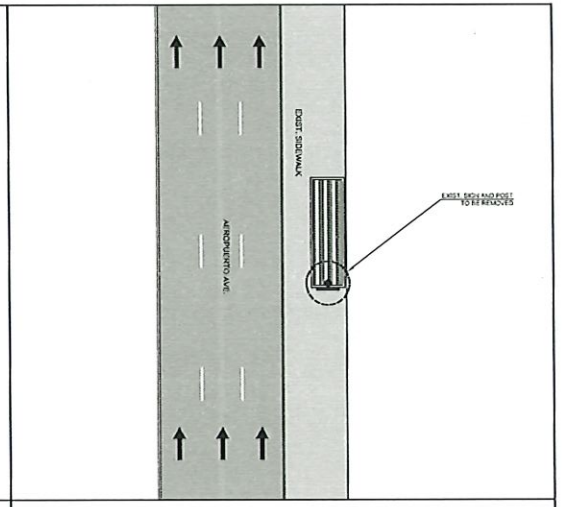
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

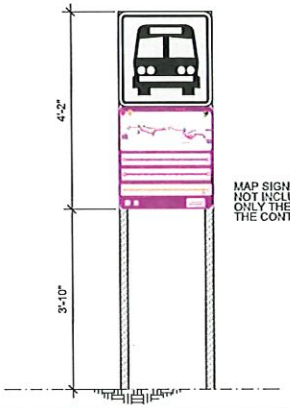


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#43



EXIST. CONDITIONS - ROUTE 53 | B.S.#43

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:

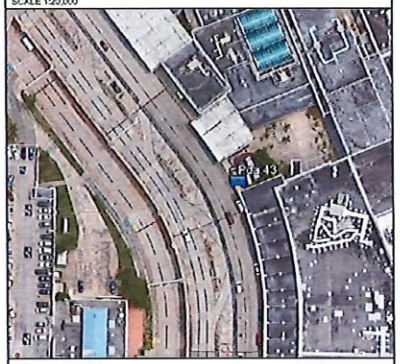
- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 FROM THE BUS STOP SHELTER. THE SIGN SHALL BE DELIVERED TO THE PRMSA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST AND SCREWS.
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 STRUCTURE IN THE SIDEWALK AREA WITH METAL PLATE FOUNDATION, NOT EXCAVATION. REFER TO PHOTO 2 & 3.
7. THE CONTRACTOR SHALL COORDINATE WITH AEROSTAR THE INSTALLATION OF THE STRUCTURE.

LOCATION PLAN
SCALE 1:20,000

18°26'17.24"N , 65° 0'16.19"W



AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8642 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18134, certifico que soy el profesional que corresponde, diseñ y/o preparé estos planos y las especificaciones correspondientes, también certifico que entiendo que 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 modificación o falsificación de los hechos que se haya producido por desconocimiento o por negligencia de mi parte o por 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
Guaynabo, PR 00779
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #43

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
JOSÉ V. CARO AVENUE FRONT AMERICAN AIRLINES TERMINAL
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

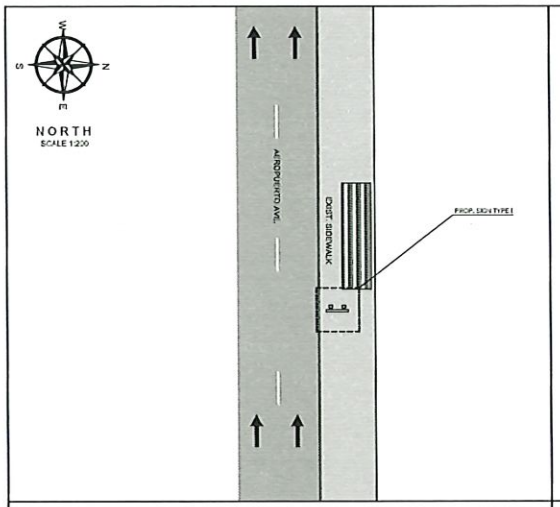
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-1.26	SHEET NO. 32 OF 73

ROUTE 53 | BUS STOP #44

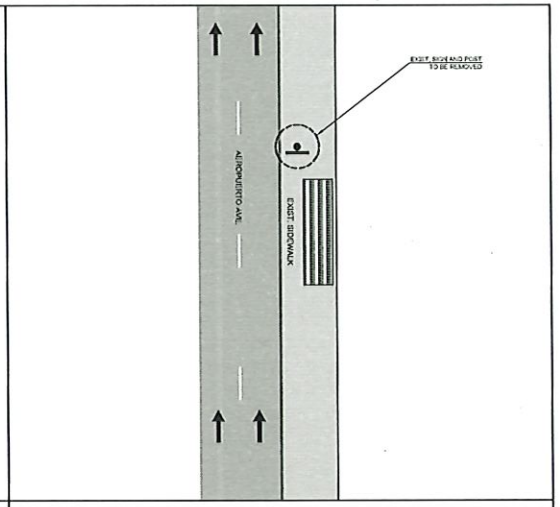
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION



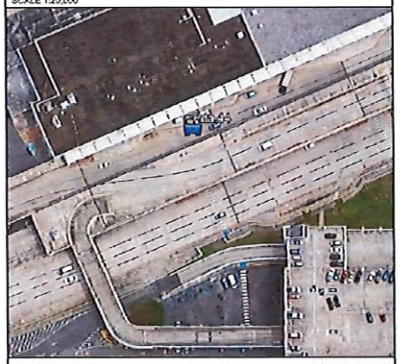
PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#44



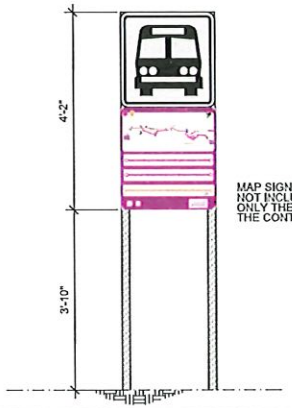
EXIST. CONDITIONS - ROUTE 53 | B.S.#44

2.5 0 5 15
SCALE 1:200

LOCATION PLAN
SCALE 1:20,000
18°26'18.87"N , 65° 023.72"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 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 FROM THE BUS STOP SHELTER. THE SIGN SHALL BE DELIVER TO THE PRMBA PERSONNEL.
4. THE CONTRACTOR SHALL REMOVE THE EXISTING POST AND SCREWS.
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 STRUCTURE IN THE SIDEWALK AREA WITH METAL PLATE FOUNDATION. NOT EXCAVATION. REFER TO PHOTO 2 & 3.
7. THE CONTRACTOR SHALL COORDINATE WITH AEROSTAR THE INSTALLATION OF THE STRUCTURE.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que certificó, diseñó y/o 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 Aprobados de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier violación o falsificación de los hechos que se haya producido por desconocimiento, por negligencia o no 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.
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Guraabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #44

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
JOSÉ V. CARO AVENUE 3RD STOP IN AIRPORT
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

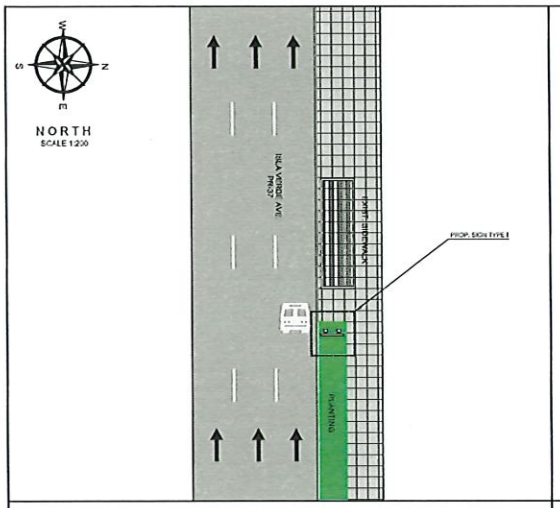
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.01	SHEET NO. 34 OF 73

ROUTE 53 | BUS STOP #45

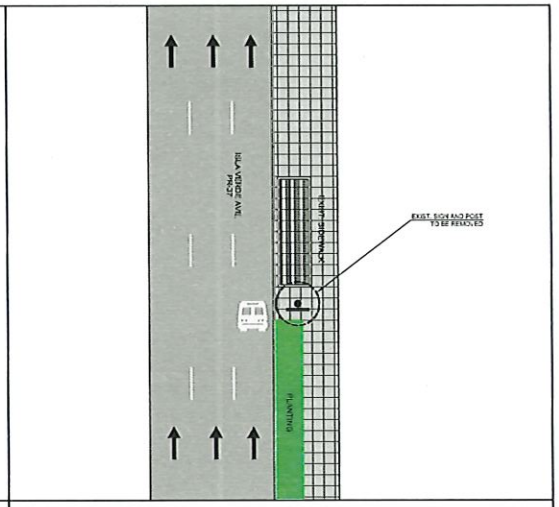
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

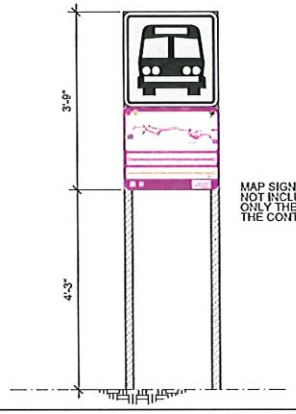


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#45



EXIST. CONDITIONS - ROUTE 53 | 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 I

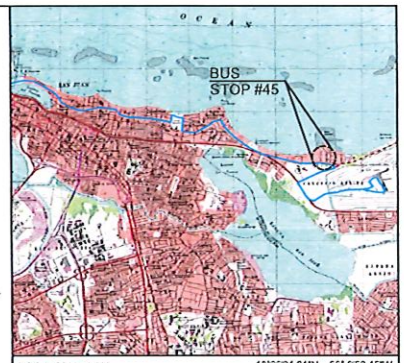
NOT TO SCALE

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 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 MINIMUM DISTANCE OF THE EXTERNAL 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 STRUCTURE IN THE PLANTING AREA, REFER TO PHOTO 3.



LOCATION PLAN
SCALE 1:20,000

18°26'31.21"N , 65° 052.45"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, 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 modificación falsa o falsificación de los hechos que se hayan producido por desconocimiento, o por negligencia, ya sea por mí, mi agencia o empleados, o por otras personas por mí consultadas, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

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Guaynabo, PR 00778
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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18-34PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #45

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
TRANSITCENTER ISLA VERDE AFTER HIGHWAY PR-187
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

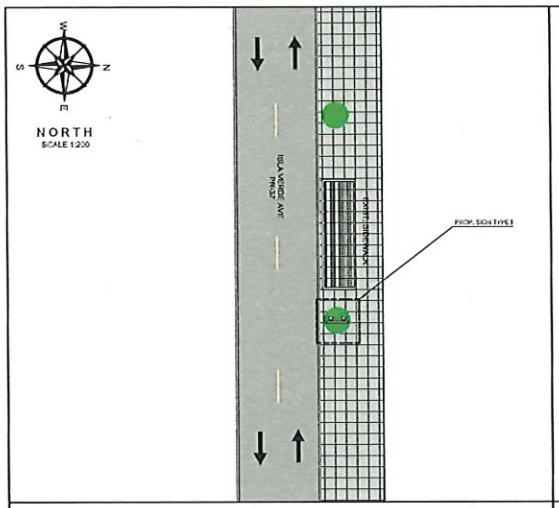
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.02	SHEET NO. 35 OF 73

ROUTE 53 | BUS STOP #46

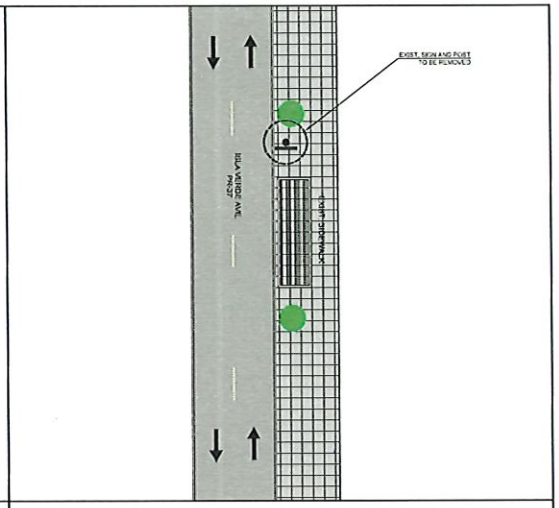
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#46



EXIST. CONDITIONS - ROUTE 53 | B.S.#46

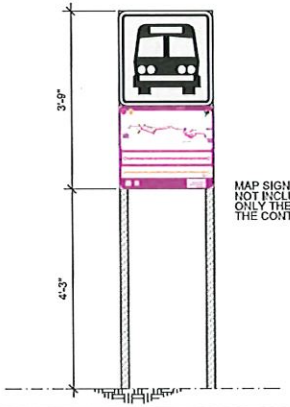
2.5 0 5 15
SCALE 1:200

LOCATION PLAN
SCALE 1:20,000

18°26'32.80"N , 65° 17.29"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 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 0.60 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN STRUCTURE IN THE PLANTING AREA. REFER TO PLATO 3.
8. THE CONTRACTOR SHALL COORDINATE WITH THE DTPW OF THE MUNICIPALITY OF CAROLINA THE INSTALLATION OF THE STRUCTURE. REFER TO PHOTO 3.
9. ANY TREE IMPACTED BY THE CONTRACTOR SHALL BE REPLACED WITH THE SAME STYLE OR MODEL.

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 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 Aplicables de las Agencias, Juntas, Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier inobservancia o falsificación de los hechos que se vayan a incluir 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 distribuirle por 5 años.

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. 18-54PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #46

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ISLA VERDE AVE. AFTER DÍAZ WAY ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

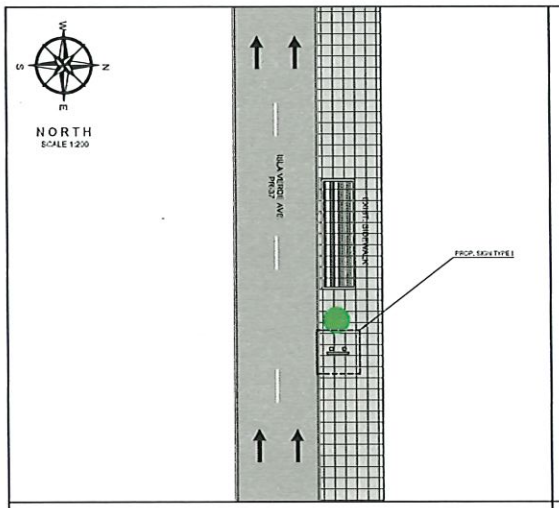
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.03	SHEET NO. 36 OF 73

ROUTE 53 | BUS STOP #47

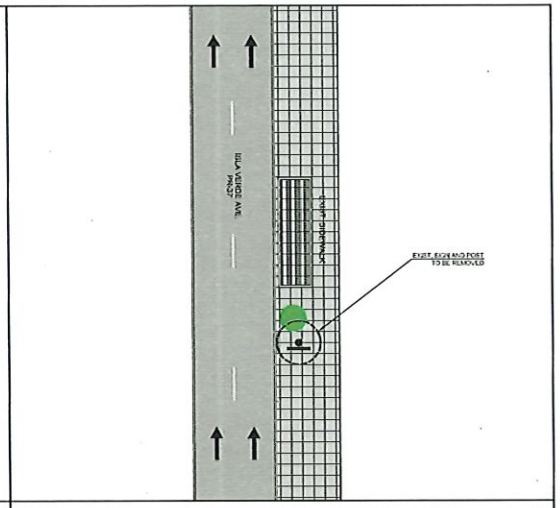
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

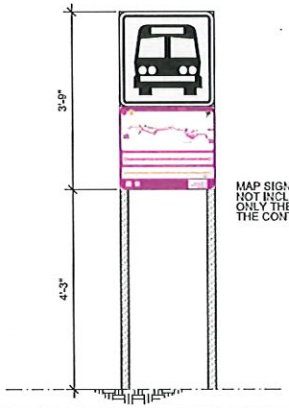


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#47



EXIST. CONDITIONS - ROUTE 53 | 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

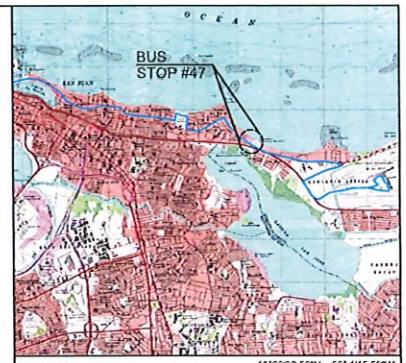
NOT TO SCALE

LEGEND:

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

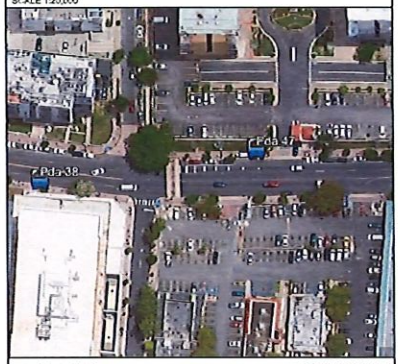
NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PIPES EXPANTTING 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 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 STRUCTURE IN THE SIDEWALK AREA. REFER TO PHOTO 3.
8. THE CONTRACTOR SHALL COORDINATE WITH THE DPW OF THE MUNICIPALITY OF CAROLINA THE INSTALLATION OF THE STRUCTURE. REFER TO PHOTO 3.
9. ANY TILE IMPACTED BY THE CONTRACTOR SHALL BE REPLACED WITH THE SAME STYLE OR MODEL.



LOCATION PLAN
SCALE 1:20,000

18°26'32.52"N , 65° 1'15.50"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 corresponde, diseñé y preparé estos planos y las especificaciones completas bajo mi cargo. Por mi 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 las Agencias, Juntas, Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier desviación bajo o falificación de la hecha que se haya producido por desconocimiento, por negligencia, por mal, por el mío agente o empleado, o por otra persona con mi conocimiento, me hacen responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
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.: 18184PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #47

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ISLA VERDE AVE. BEFORE TARTAK ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

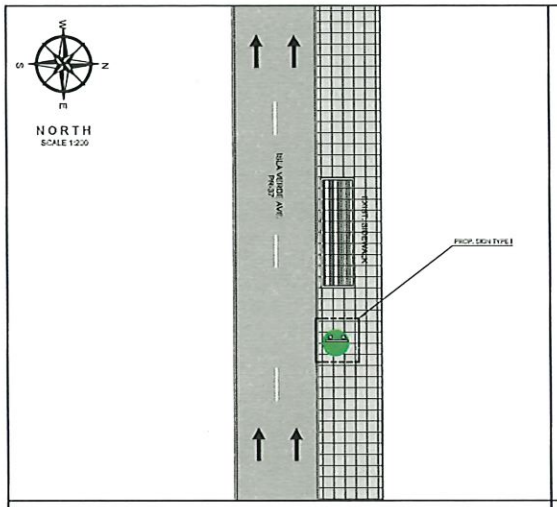
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.04	SHEET NO. 37 OF 73

ROUTE 53 | BUS STOP #48

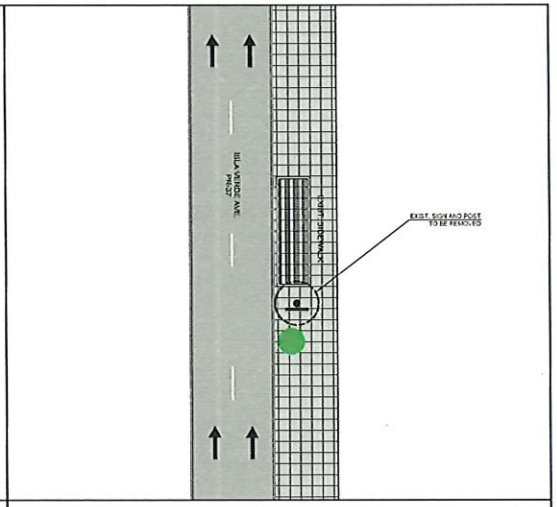
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

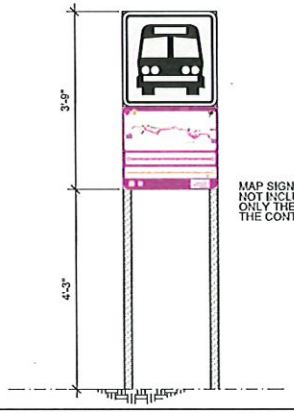


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#48



EXIST. CONDITIONS - ROUTE 53 | 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 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 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 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 0.60 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN STRUCTURE IN THE SIDEWALK AREA, REFER TO PHOTO 3.
8. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER OF THE MUNICIPALITY OF CAROLINA THE INSTALLATION OF THE STRUCTURE, REFER TO PHOTO 3.
9. ANY TILE IMPACTED BY THE CONTRACTOR SHALL BE REPLACED WITH THE SAME STYLE OR MODEL.
10. THE EXISTING KILOMETER MARKER SHALL BE PROTECTED DURING THE CONSTRUCTION PROCEDURES.

LOCATION PLAN
SCALE 1:20,000

18°26'34.73"N , 65° 1'27.05"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 certificó, diseñó y/o preparó estos planos y las especificaciones complementarias. También 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 las Agencias, Juntas, Reglamentadoras y Corporaciones Públicas con jurisdicción. Reconozco que cualquier violación total o substancial de los hechos que se vierten en este documento, o por negligencia o mala fe por mi o 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
INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 18-34

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #48

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ISLA VERDE AVE. BEFORE OPPOSITE SIDE OF RODRÍGUEZ EMMA ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

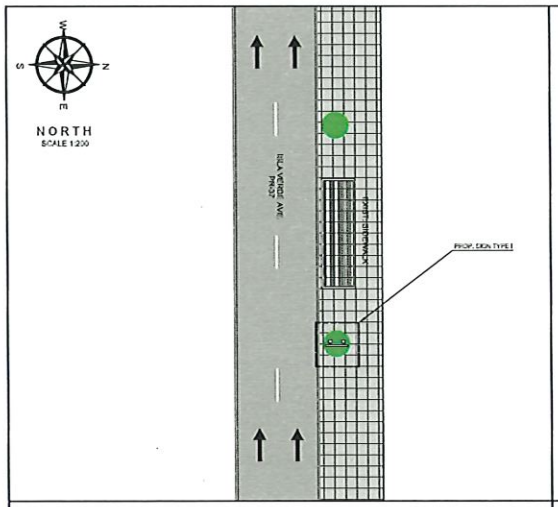
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.05	SHEET NO. 38 OF 73

ROUTE 53 | BUS STOP #49

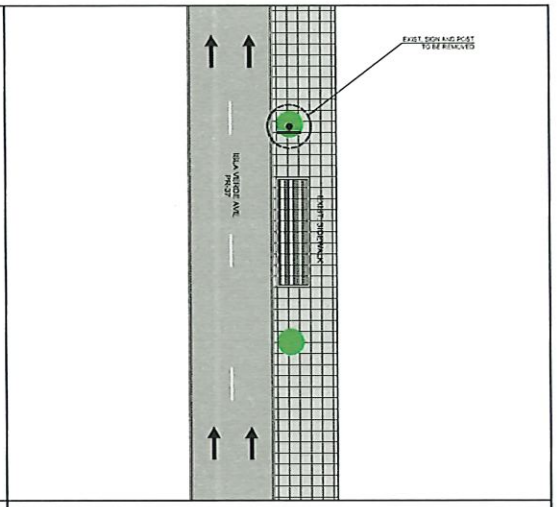
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

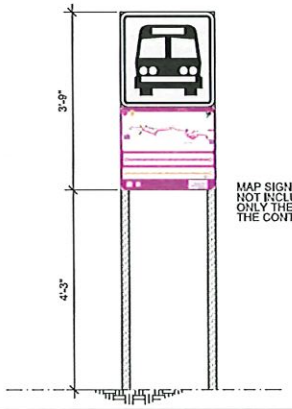


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#49



EXIST. CONDITIONS - ROUTE 53 | 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

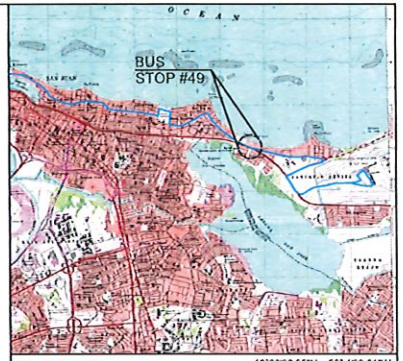
NOT TO SCALE

LEGEND:

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

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND FENCE 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 6.0 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN STRUCTURE IN THE PLANTING AREA. REFER TO PHOTO 3.
8. THE CONTRACTOR SHALL COORDINATE WITH THE DTPW OF THE MUNICIPALITY OF CAROLINA THE INSTALLATION OF THE STRUCTURE AND REMOVAL OR RELOCATION OF THE EXISTING TREE. REFER TO PHOTO 3.
9. ANY TREE IMPACTED BY THE CONTRACTOR SHALL BE REPLACED WITH THE SAME STYLE OR MODEL.



LOCATION PLAN 18°26'38.05"N , 65° 139.81"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 18-54, certifico que soy el profesional que conceptualizó, diseñó y preparó estos planos y las especificaciones complementarias. También 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 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 o a sabiendas, me hará responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Guaynabo, 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 53 | BUS STOP #49

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ISLA VERDE AVE. OPPOSITE SIDE OF 6 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-2.06	SHEET NO. 39 OF 73

ROUTE 53 | BUS STOP #50

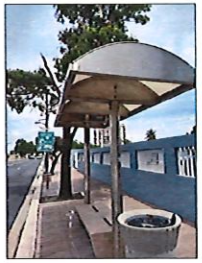
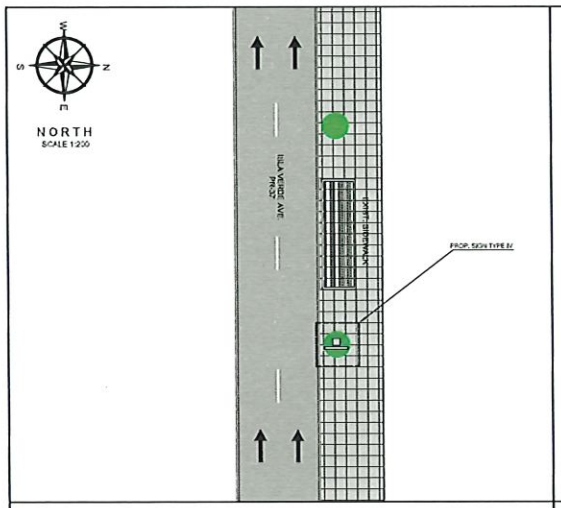


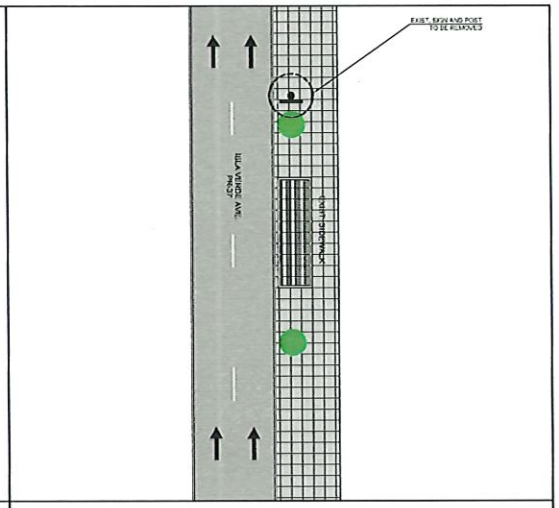
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

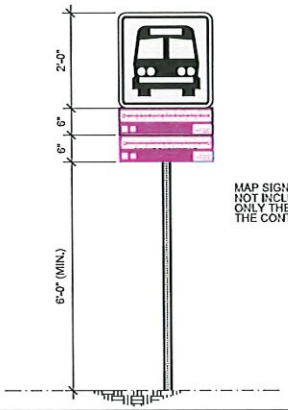


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#50



EXIST. CONDITIONS - ROUTE 53 | 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
- 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 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 STRUCTURE IN THE SIDEWALK AREA. REFER TO PHOTO 3.
8. THE CONTRACTOR SHALL COORDINATE WITH THE DTPW OF THE MUNICIPALITY OF CAROLINA THE INSTALLATION OF THE STRUCTURE AND REMOVAL OR RELOCATION OF THE EXISTING TREE. REFER TO PHOTO 3
9. ANY TILE IMPACTED BY THE CONTRACTOR SHALL BE REPLACED WITH THE SAME STYLE OR MODEL.

LOCATION PLAN
SCALE 1:20,000

18°26'41.62"N, 65° 1'51.79"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia N° 24, certifico que soy el profesional que certificaba diseño y/o proyectos planos y las especificaciones completas aquí incluidas. Certifico que el diseño y las alternativas y especificaciones cumplen con las disposiciones aplicables del Reglamento, Códigos y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de las Agencias, Juntas, Reglamentadoras y Corporaciones Públicas con jurisdicción. Reconozco que cualquier declaración falsa o falsificación de los hechos que se haya producido por desconocimiento, o por negligencia, o no por mí, agentes o empleados, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y delito incluso por la DOPA.

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. # 24PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #50

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ISLA VERDE AVE. FRONT OF CONDADO BEACH TOWER BUILDING
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. 40 OF 73

ROUTE 53 | BUS STOP #51

PHOTO - 1

PHOTO - 2

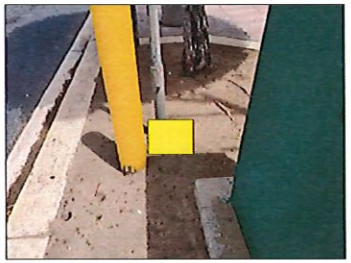
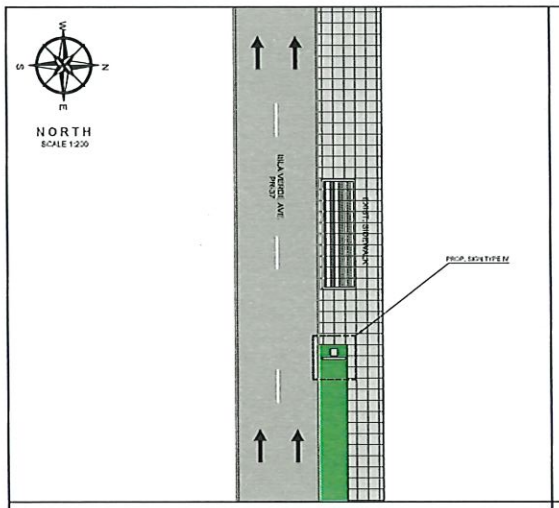
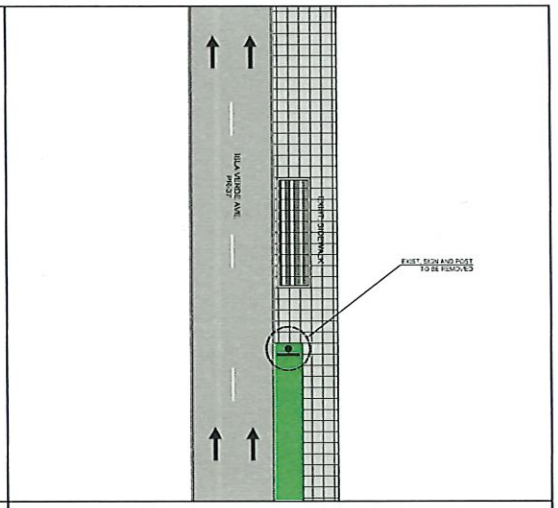


PHOTO - 3: PROPOSED SIGN LOCATION

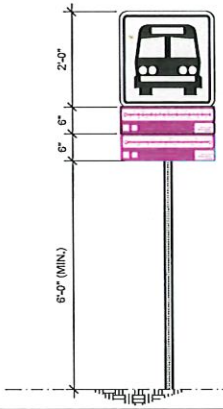


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#51



EXIST. CONDITIONS - ROUTE 53 | 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

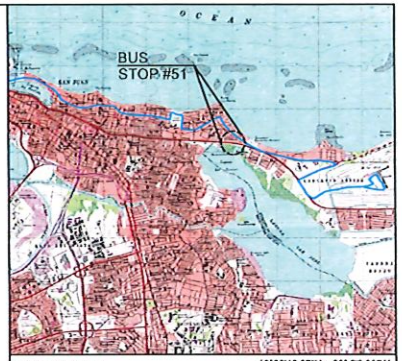
NOT TO SCALE

LEGEND:

- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (MIA 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 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 0.61M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN STRUCTURE IN THE PLANTING AREA, REFER TO PHOTO 3.
8. THE CONTRACTOR SHALL COORDINATE WITH THE TOWN OF THE MUNICIPALITY OF CAROLINA THE INSTALLATION OF THE STRUCTURE, REFER TO PHOTO 3.



LOCATION PLAN
SCALE 1:20,000

18°26'45.67"N , 65° 20.50"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo, Hernan E. Lopez Baez, Ingeniero, licencia N° 24, certifico que soy el profesional que certificó, diseñó y/o preparó estas planos y las especificaciones conforme aprobadas. Certifico además que entiendo que dichas obras 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 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.
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. # 24PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #51

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ISLA VERDE AVE. OPPOSITE SIDE OF BALDORIOTY
DE CASTRO ESPRESSWAY EXIT 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. 41 OF 73

ROUTE 53 | BUS STOP #52

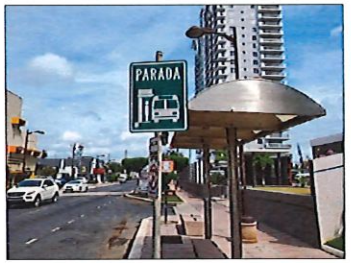
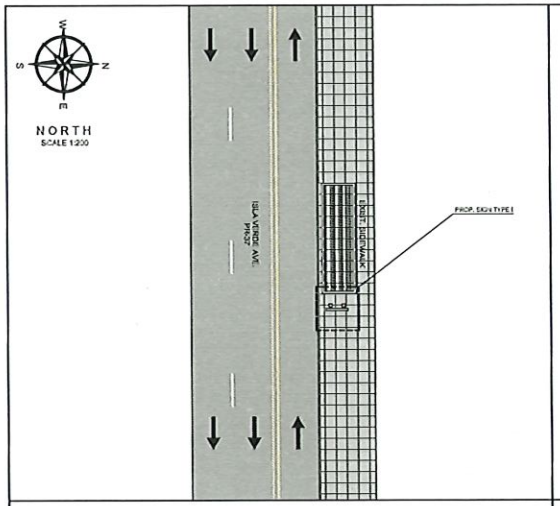


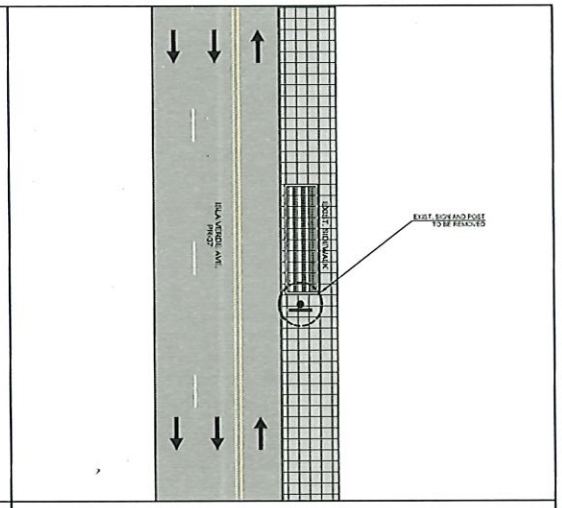
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

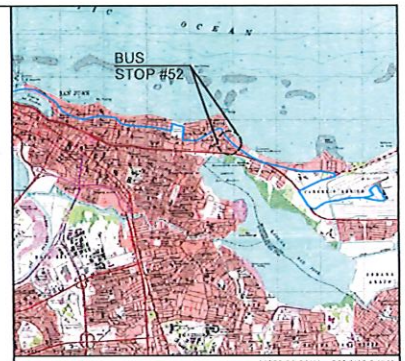


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#52



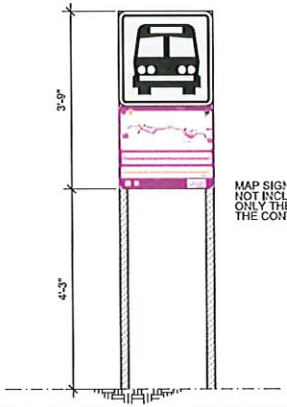
EXIST. CONDITIONS - ROUTE 53 | B.S.#52

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°26'55.30"N , 65° 2'12.34"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
- PRIMSA 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 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 STRUCTURE IN THE SIDEWALK AREA, REFER TO PHOTO 3.
8. THE CONTRACTOR SHALL COORDINATE WITH THE STAFF OF THE MUNICIPALITY OF CAROLINA THE INSTALLATION OF THE STRUCTURE, REFER TO PHOTO 3.
9. ANY TREE IMPACTED BY THE CONTRACTOR SHALL BE REPLACED WITH THE SAME STYLE OR MODEL.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que certificaré, diseñé y preparé estos planos y las especificaciones completas aquí. Certifico, certifico que he diseñado las obras, planos y especificaciones cumplen con las disposiciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Aprobados de los Agencias Juntas Reglamentadoras a Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación hecha a información de los hechos que se haya proporcionado 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 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. 18-54PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #52

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ISLA VERDE AVE. BEFORE OPPOSITE SIDE OF JÚPITER ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

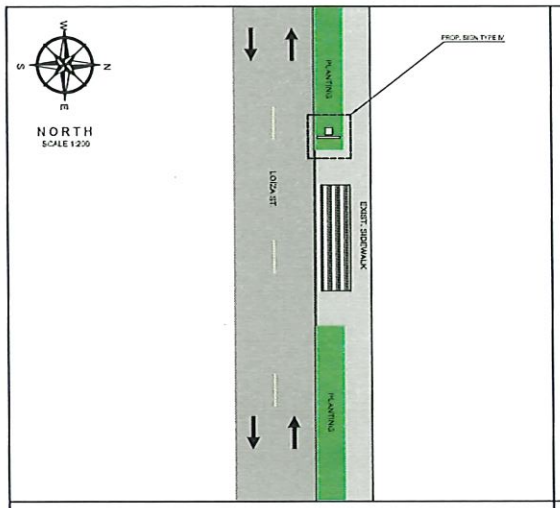
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.09	SHEET NO. 42 OF 73

ROUTE 53 | BUS STOP #53

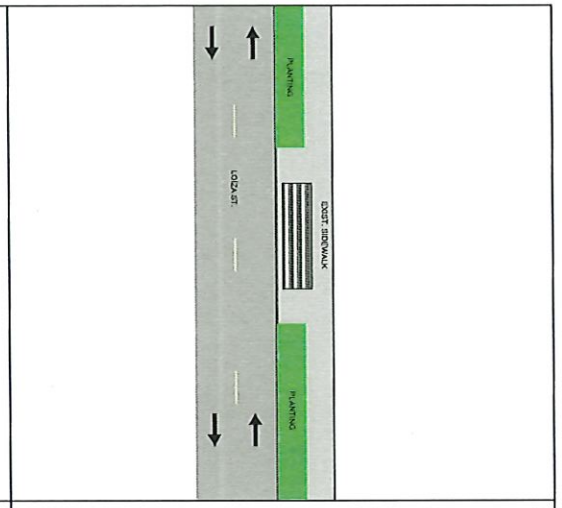
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION



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

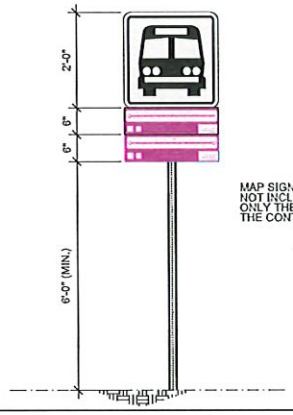


EXIST. CONDITIONS - ROUTE 53 | B.S.#53

2.5 0 5 15
SCALE 1:200

LOCATION PLAN 18°27'1.08"N , 65° 2'17.65"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
- 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 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 STRUCTURE IN THE PLANTING AREA. REFER TO PHOTO 3.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18184, certifico que soy el profesional que confeccionó, diseñó y/o presentó estos planos y las especificaciones complementarias. Certifico, además, que el diseño que de los 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 inobservancia total o falsificación de la misma que se haya producido por desconocimiento o por negligencia grave 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.

ENZO Engineering, psc.
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Guaraño, PR 00778
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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 18184

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

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ISLA VERDE AVE. BEFORE INTERNATIONAL ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

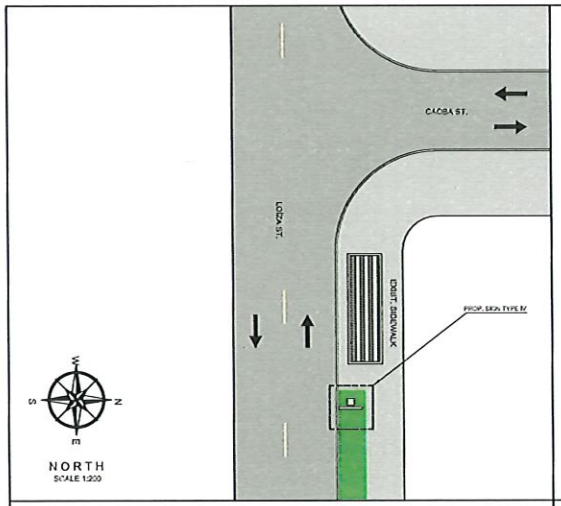
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.10	SHEET NO. 43 OF 73

ROUTE 53 | BUS STOP #54

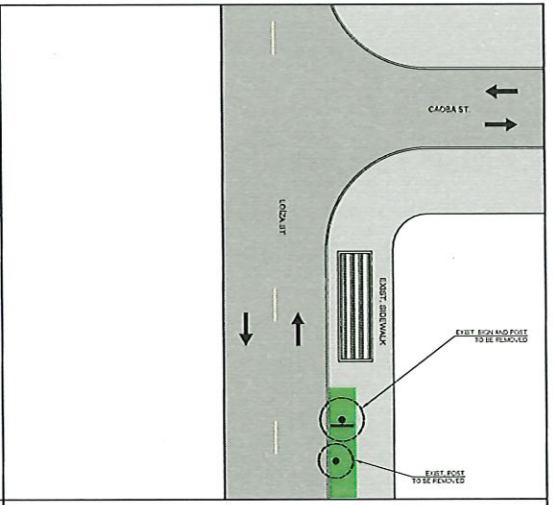
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

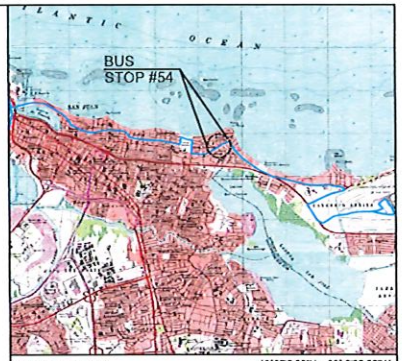


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#54

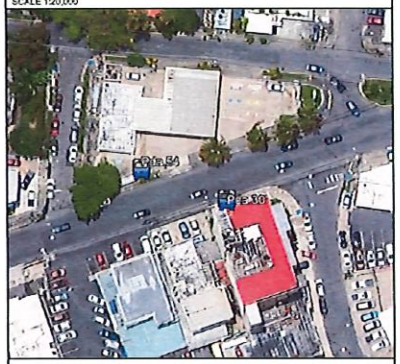


EXIST. CONDITIONS - ROUTE 53 | B.S.#54

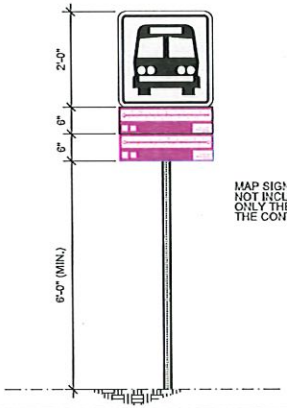
2.5 0 5 15
SCALE 1:200



LOCATION PLAN 18°27'5.25"N , 65° 2'25.55"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
- 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 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 STRUCTURE IN THE PLANTING AREA, REFER TO PHOTO 3.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que corresponde, diseño y/o preparo estos planos y las especificaciones completas aquí, Certifico, certifico que el diseño que aquí se describe y especifica cumple 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 fabricación de la misma que se haya producido por desconocimiento o por negligencia, sea por mí, mis agentes o empleados, o por otra persona con mi consentimiento, me hacen responsable de cualquier acción judicial y civil derivada por la misma.

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. 18-54PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #54

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
LOÍZA ST. INT. CAOBA ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

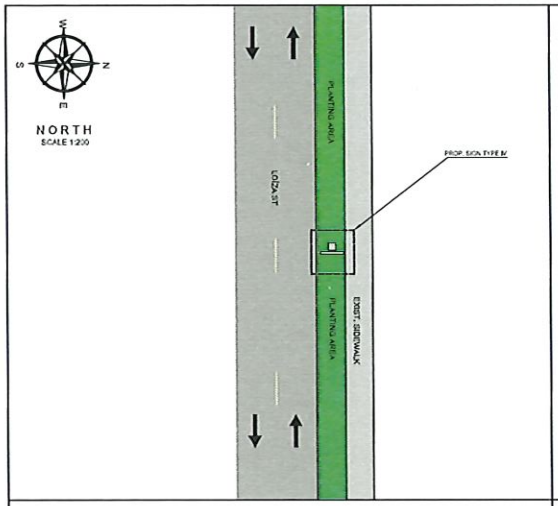
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.11	SHEET NO. 44 OF 73

ROUTE 53 | BUS STOP #55

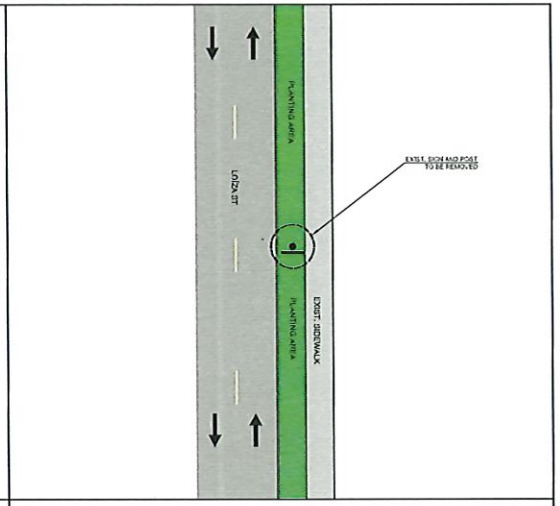
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

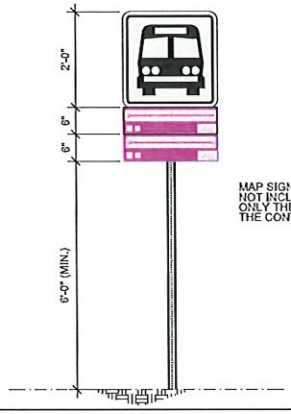


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#52



EXIST. CONDITIONS - ROUTE 53 | B.S.#55

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

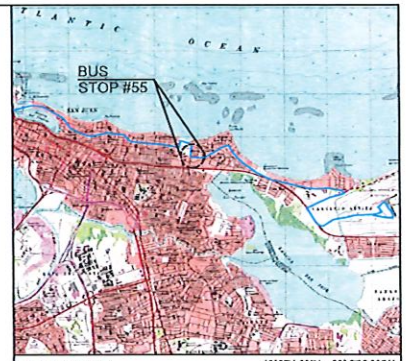
NOT TO SCALE

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 PERMIT ING 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 0.60 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN STRUCTURE IN THE PLANTING AREA, REFER TO PHOTO 3.



LOCATION PLAN
SCALE 1:20,000

18°27'1.63"N , 65° 2'32.39"W

AERIAL PHOTO
SCALE 1:1,000

GOOGLE EARTH
VERSION: 7.3.4.8542 PRO

Yo, Hernan E. Lopez Baez, Ingeniero Licencia No 04, certifico que soy el profesional que corresponde, diseño y/o preparó estos planos y las especificaciones, cumplen con las Normas, certifico que entiendo que dichos diseños 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 futura o falsificación de los hechos que se vean perjudicados 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/o administrativa por la OGPe.

ENZO Engineering, psc.
PO Box 3040, PMB 427
GUAYNABO, PR 00779
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 13 SAFE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #55

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
LOÍZA ST. AFTER CACIQUE ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

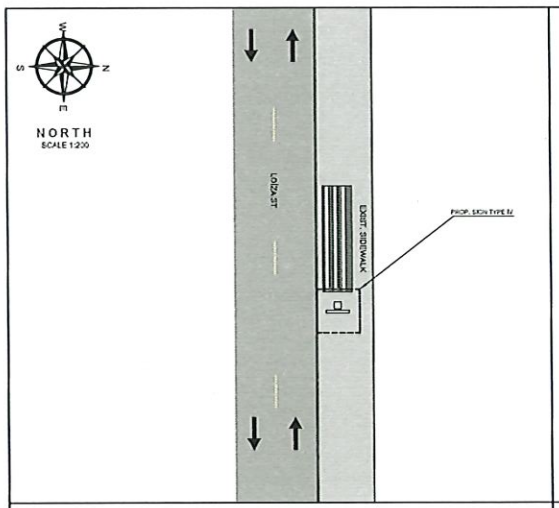
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.12	SHEET NO. 45 OF 73

ROUTE 53 | BUS STOP #56

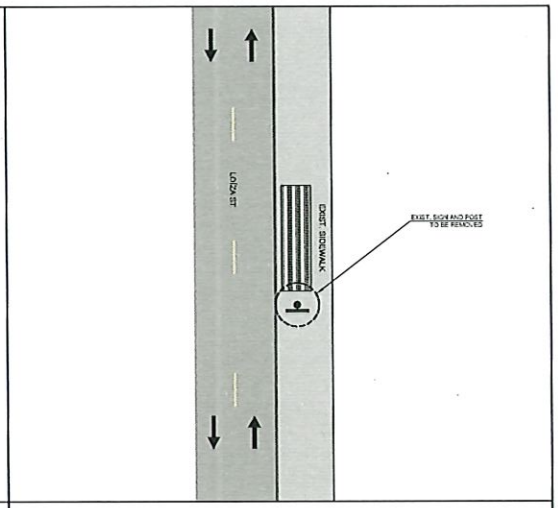
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

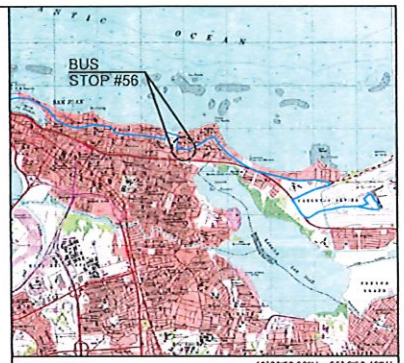


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#52



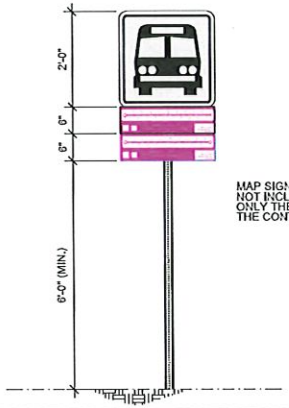
EXIST. CONDITIONS - ROUTE 53 | B.S.#55

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°26'58.32"N , 65° 2'38.45"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
- 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 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 STRUCTURE IN THE SIDEWALK AREA, REFER TO PHOTO 3.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que corresponde, diseñé y/o preparé estos planos y las especificaciones complementarias. También 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 las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación futura o falsificación de los hechos que se vierten y/o plasmo 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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Guaynabo, PR 00778
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #56

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
INTERSECTION LOÍZA ST. WITH SOLDADO CRUZ ST.
MUNICIPALITY OF CAROLINA

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

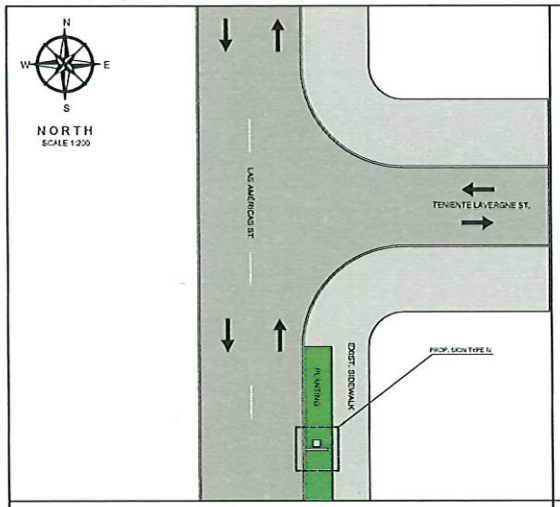
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.13	SHEET NO. 46 OF 73

ROUTE 53 | BUS STOP #57

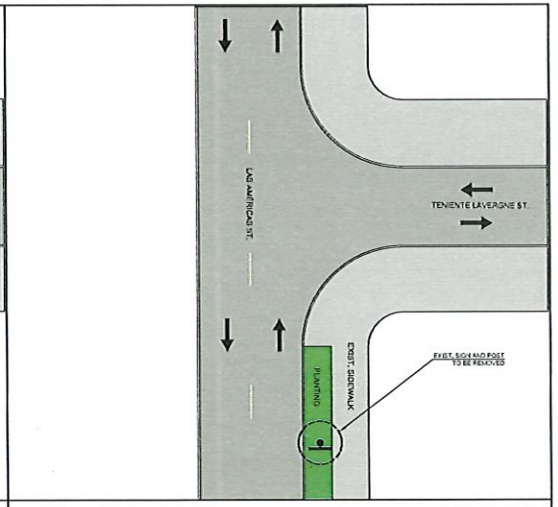
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

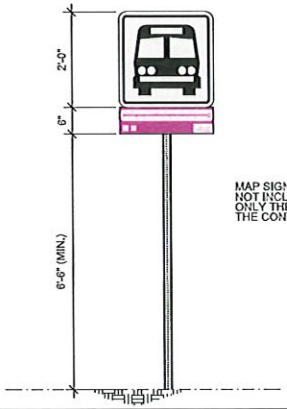


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#57



EXIST. CONDITIONS - ROUTE 56 | 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 IV

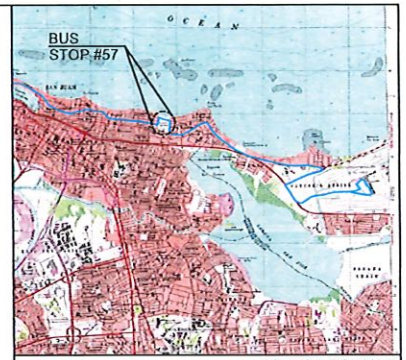
NOT TO SCALE

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 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 STRUCTURE IN THE PLANTING AREA, REFER TO PHOTO 3.



LOCATION PLAN
SCALE 1:20,000

18°27'0.05"N , 65° 2'50.59"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 certificaron, diseñó y/o preparó estos planos y las especificaciones, conforme sellos. 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 Aprobados de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación falsa o falsificación de los hechos que se vean producidos por desconocimiento o por negligencia que 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 OGPe.

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

HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18184

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #57

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
LAS AMÉRICAS ST. BEFORE TENIENTE LAVERGNE 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-2.14	SHEET NO. 47 OF 73

ROUTE 53 | BUS STOP #58

PHOTO - 1

PHOTO - 2

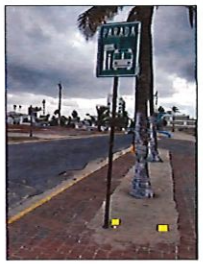
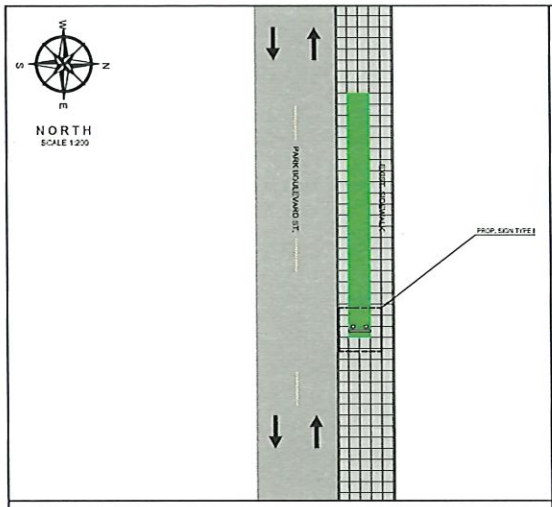
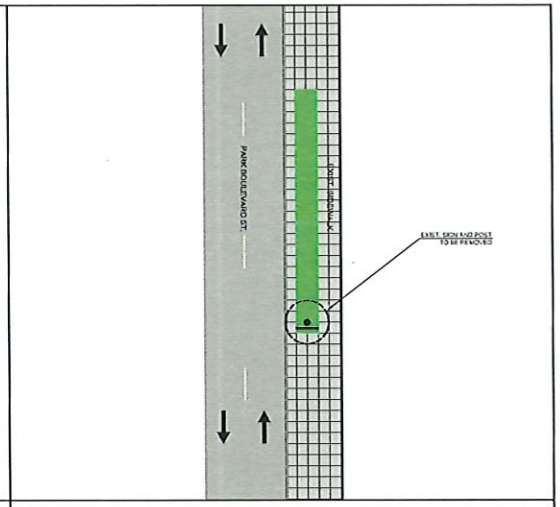


PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#58

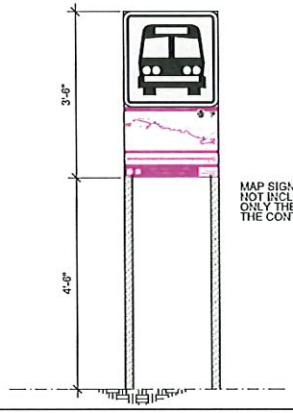


EXIST. CONDITIONS - ROUTE 53 | B.S.#58

2.5 0 5 15
SCALE 1:200

LOCATION PLAN
SCALE 1:20,000
18°27'9.25"N , 65° 2'55.55"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
- PAMBA 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 PAMBA PERSONNEL.
4. THE CONTRACTOR SHALL REVOVE 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 2.60 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN STRUCTURE IN THE PLANTAG / SAND AREA. REFER TO PLATE 3.

Yo, Hernan E. Lopez Baez, Ingeniero, Licencia 18184, certifico que soy el profesional que confeccionó, diseñó y/o preparó estos planos y las especificaciones completas incluidas. También 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, Agencias de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier inobservancia o violación de los hechos que se vayan probando por desconocimiento, por negligencia, por error del mío, 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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HERNAN E. LOPEZ BAEZ
INGENIERO
LICENCIADO
PUERTO RICO

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #58

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
PARK BOULEVARD ST. BEFORE SOLDADO SERRANO ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

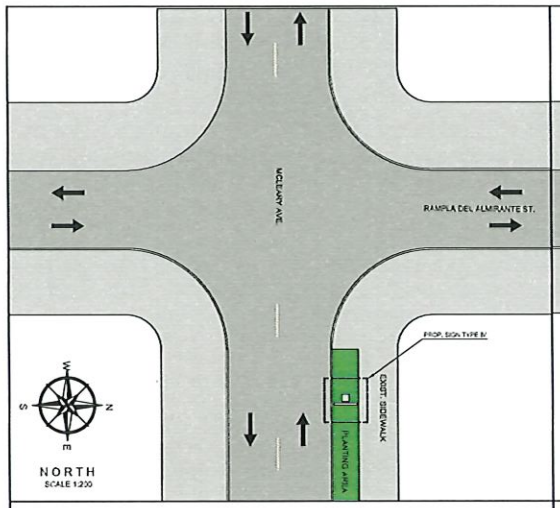
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.15	SHEET NO. 48 OF 73

ROUTE 53 | BUS STOP #59

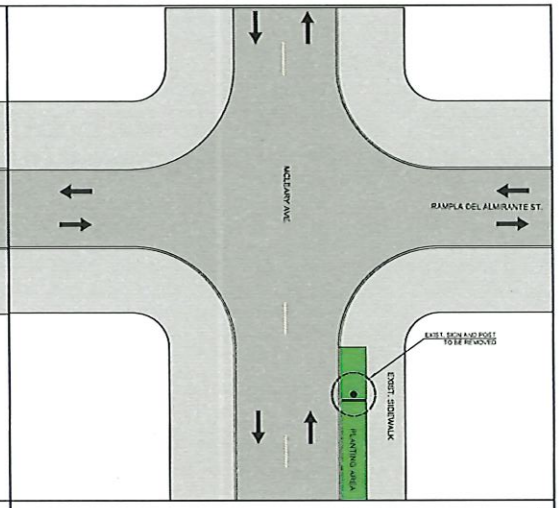
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION



PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#59

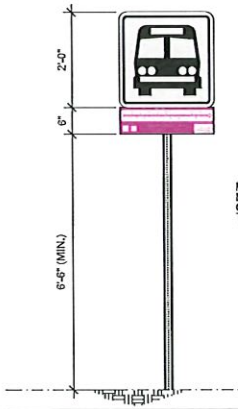


EXIST. CONDITIONS - ROUTE 53 | B.S.#59

2.5 0 5 15
SCALE 1:200

LOCATION PLAN 18°27'5.77"N , 66° 3'33.13"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 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 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 STRUCTURE IN THE PLANTING AREA, REFER TO PLATO 3.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-34, certifico que soy el profesional que certificó el diseño y/o proyecto aquí planos y las 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 Organismos Públicos con jurisdicción. Reconozco que cualquier modificación o falsificación de la información aquí suministrada por desconocimiento, o por negligencia, o no por mí, mi agencia o empleados, o por otras personas por mi consultadas, me hacen responsable de cualquier acción judicial y/o multa que 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, PE MEM
LIC. # 5495

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #59

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
MCLEARY AVENUE BEFORE RAMPLA DEL ALMIRANTE ST.,
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

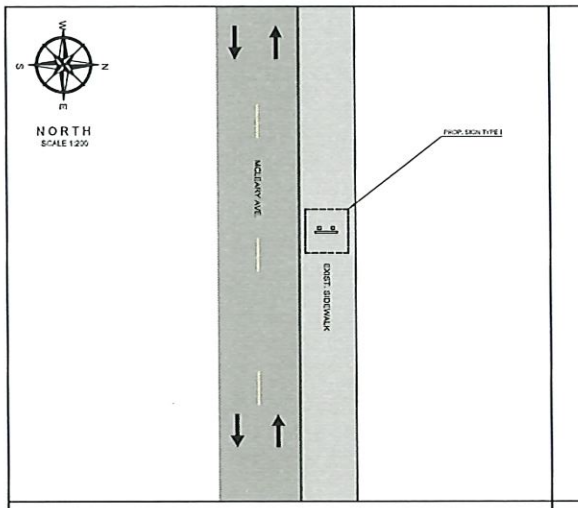
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.16	SHEET NO. 49 OF 73

ROUTE 53 | BUS STOP #60

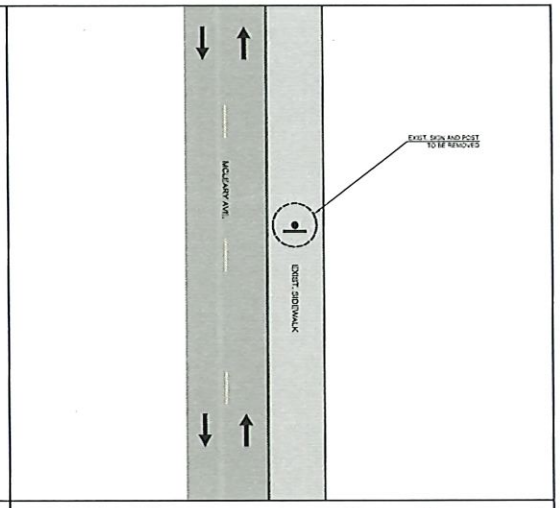
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

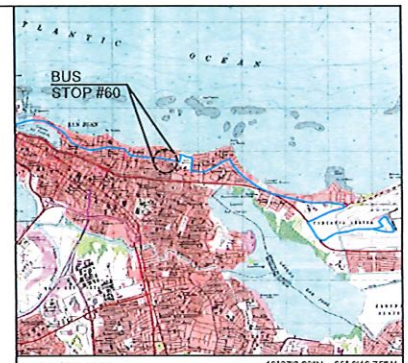


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#60

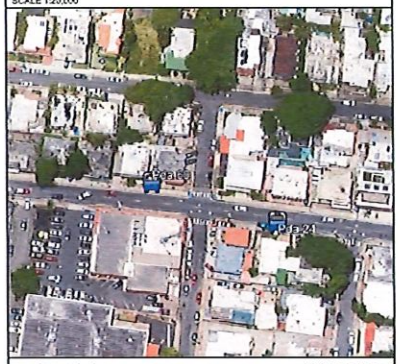


EXIST. CONDITIONS - ROUTE 53 | B.S.#60

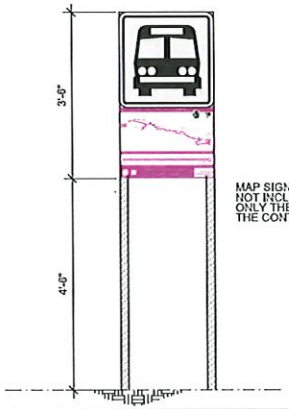
2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°27'8.23"N , 65° 3'16.75"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
- 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 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 0.62 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN STRUCTURE IN THE SIDEWALK AREA, REFER TO PLOT 53.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que confeccionó, diseñó y 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 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 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 otras personas con mi conocimiento, me hacer responsable de cualquier acción judicial y disciplinaria por la OGPe.

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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. 18-54

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #60

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
MCLEARY AVENUE AFTER 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-2.17	SHEET NO. 50 OF 73

ROUTE 53 | BUS STOP #61

PHOTO - 1

PHOTO - 2

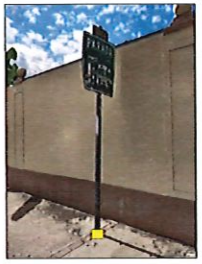
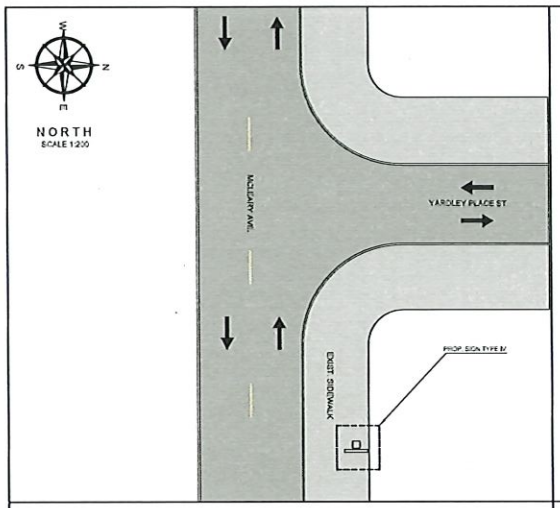
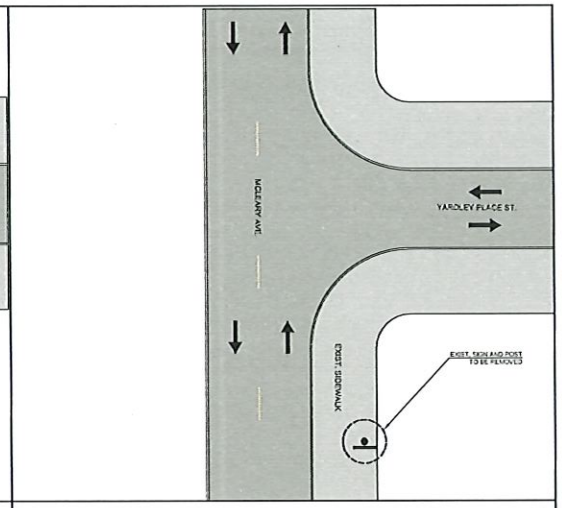


PHOTO - 3: PROPOSED SIGN LOCATION

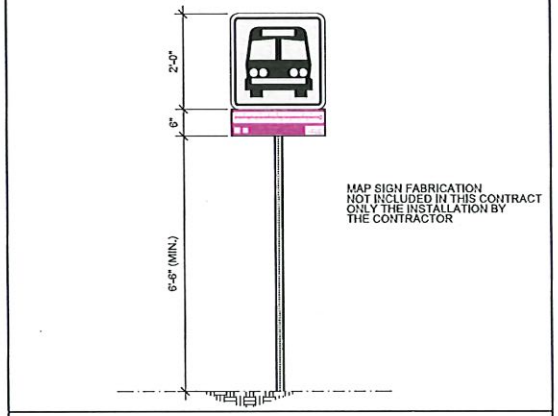


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#61



EXIST. CONDITIONS - ROUTE 53 | B.S.#61

2.5 0 5 15
SCALE 1:200



PROPOSED SIGN TYPE IV

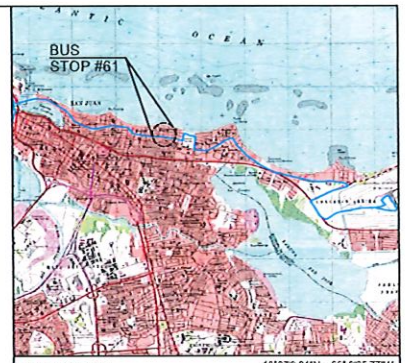
NOT TO SCALE

LEGEND:

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

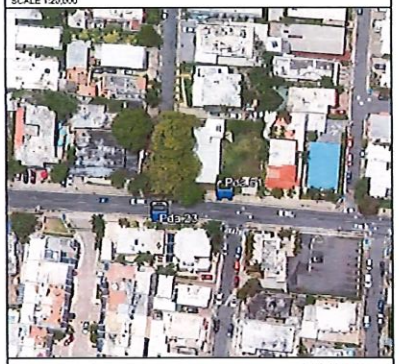
NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND PERMIT 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 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 STRUCTURE IN THE PLANTING AREA. REFER TO PHOTO 3.



LOCATION PLAN
SCALE 1:20,000

18°27'9.31"N , 65° 3'25.77"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 certificó, diseñó y preparó estos planos y las especificaciones completas incluidas. Certifico, además que he diseñado las obras, 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 incumplimiento de lo anterior, así como cualquier error 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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Guaynabo, 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 53 | BUS STOP #61

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
MCLEARY AVENUE BEFORE YARDLEY PLACE ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

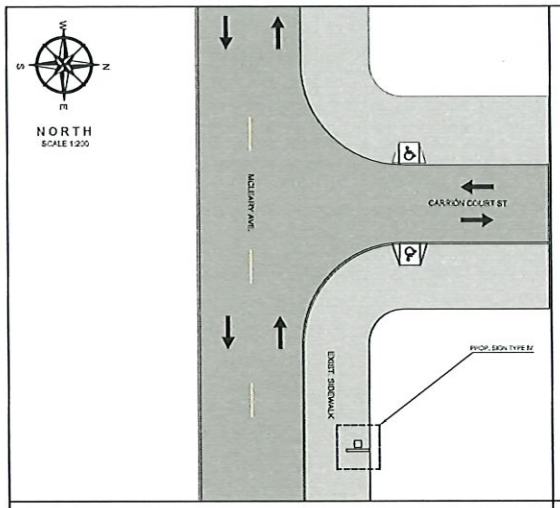
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.18	SHEET NO. 51 OF 73

ROUTE 53 | BUS STOP #62

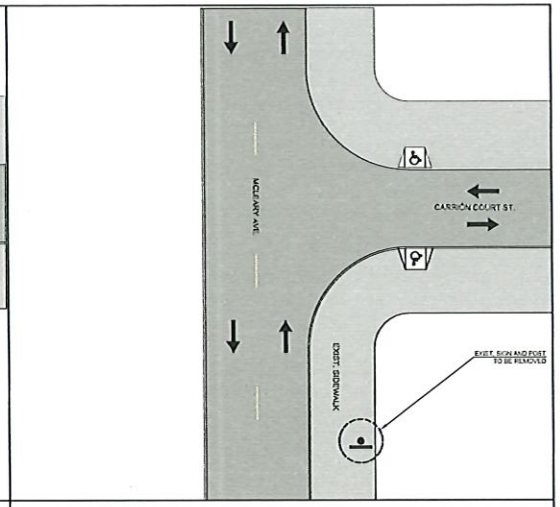
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION



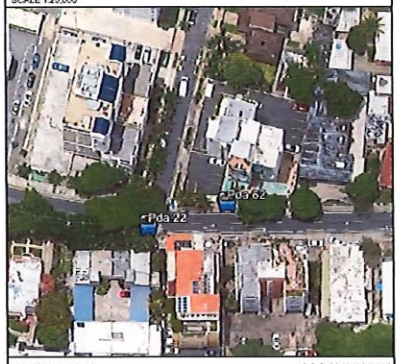
PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#62



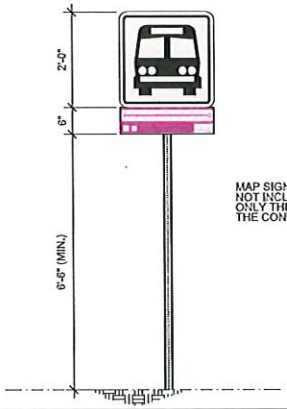
EXIST. CONDITIONS - ROUTE 53 | B.S.#62

2.5 0 5 15
SCALE 1:200

LOCATION PLAN
SCALE 1:20,000
18°27'9.70"N , 65° 3'32.90"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 TAKE INTO ACCOUNT THE ELEVEL 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 STRUCTURE IN THE PLANTING AREA, REFER TO PHOTO 3.

Yo, Hernan E. Lopez Baez, Ingeniero, Licencia 18184, certifico que soy el profesional que certificaré, diseñé y preparé estos planos y las especificaciones completas finales. Certifico que se diseñó que 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 modificación hecha a la(s) hecha que se haya producido por desconocimiento o por negligencia o sea por mí, mis agentes o empleados, o por otra persona con mi consentimiento, me hacer responsable de cualquier acción judicial y disciplinaria por la OGPe.

ENZO Engineering, psc.
PO Box 3040, PMB 427
Guaynabo, PR 00779
TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #62

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
MCLEARY AVENUE BEFORE CARRIÓN COURT ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

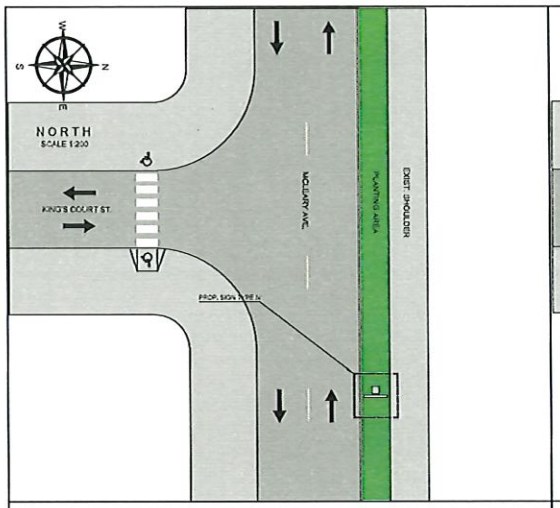
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.19	SHEET NO. 52 OF 73

ROUTE 53 | BUS STOP #63

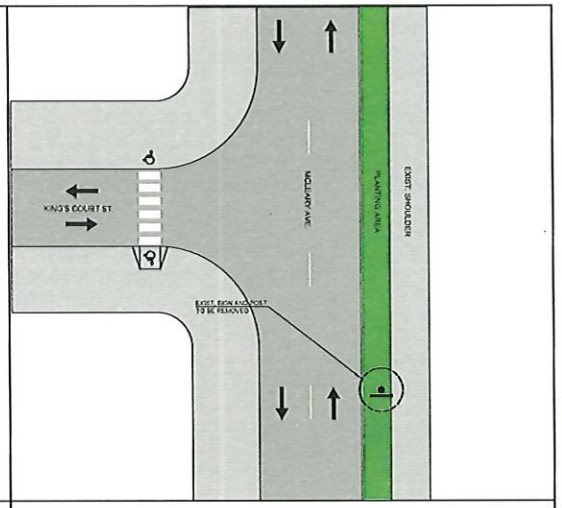
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

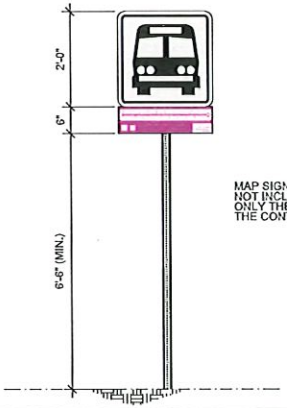


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#63



EXIST. CONDITIONS - ROUTE 53 | B.S.#63

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

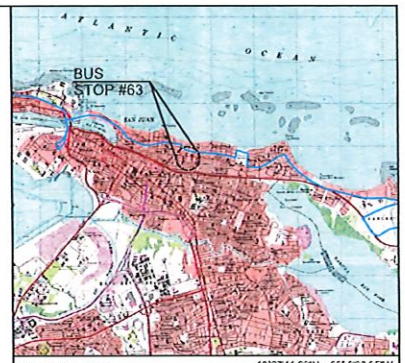
NOT TO SCALE

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 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 PRIMA PERSONNEL.
4. THE CONTRACTOR SHALL REVOVE 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 STRUCTURE IN THE PLANTING AREA. REFER TO PHOTO 3.



LOCATION PLAN
SCALE 1:20,000
18°27'11.20"N , 65° 3'38.55"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 confeccionó, diseñó y/o preparó estos planos y las especificaciones, completa y fielmente, y que, en el diseño que aparece en los mismos, se ha tomado en cuenta y se ha cumplido 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 futura o falsificación de los hechos que se haya producido por desconocimiento, por negligencia, por mi parte o por 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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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. # 5496

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #63

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
MCLEARY AVENUE BEFORE KING'S COURT ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

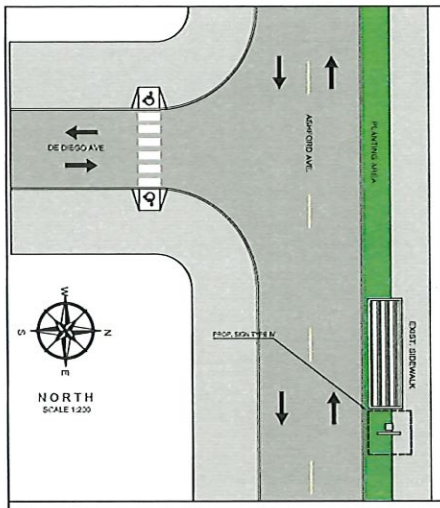
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.20	SHEET NO. 53 OF 73

ROUTE 53 | BUS STOP #64

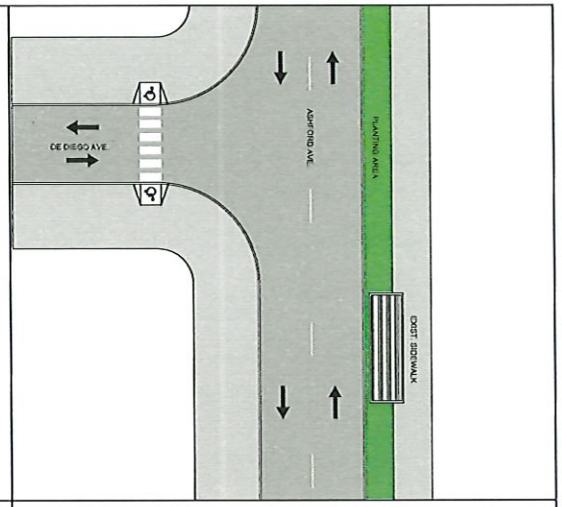
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

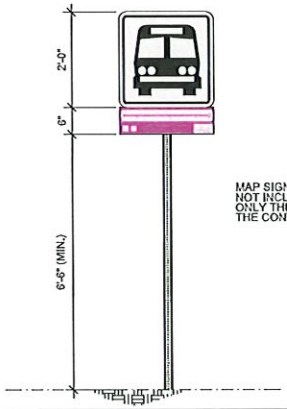


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#64



EXIST. CONDITIONS - ROUTE 53 | B.S.#64

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:

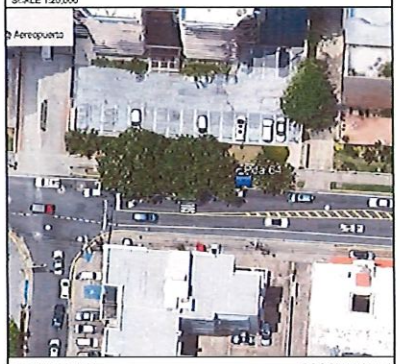
- PROP. SIGN TYPE I
- PROP. SIGN TYPE II
- PROP. SIGN TYPE III
- PROP. SIGN TYPE IV
- EXIST. SIGN
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION AND 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 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 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 0.50 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN STRUCTURE IN THE PLANTING AREA, REFER TO PLOT 0.3.

LOCATION PLAN
SCALE 1:20,000

18°27'15.17"N , 65° 3'46.76"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 corroboró, diseñó y/o preparó estos planos y las especificaciones complementarias. Certifico, además, que se tomó en cuenta 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 modificación o alteración de los hechos que se vean y/o afecten 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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TEL. (787) 649-6200 | LOPEZBAEZ@ENZOGROUPLLC.ORG

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
PUERTO RICO

HERNAN E. LOPEZ BAEZ, PE MEM
LIC.-18-34

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #64

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ASHFORD AVENUE 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

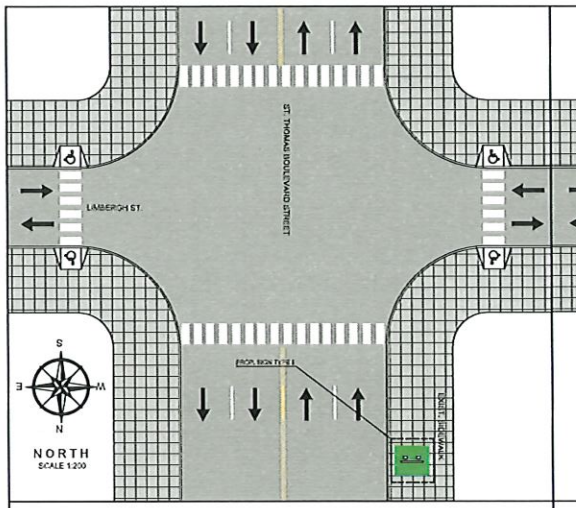
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.21	SHEET NO. 54 OF 73

ROUTE 53 | BUS STOP #72

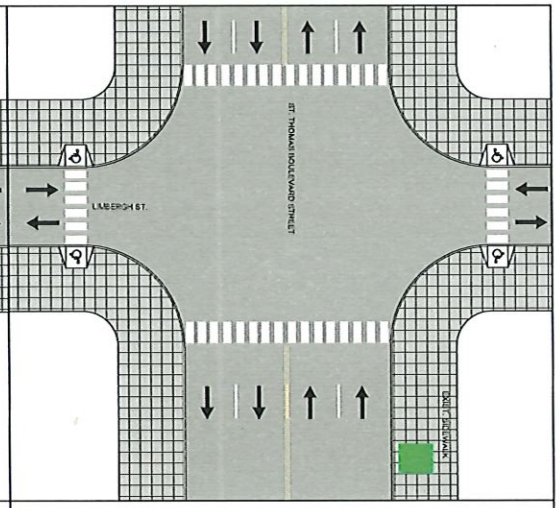
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

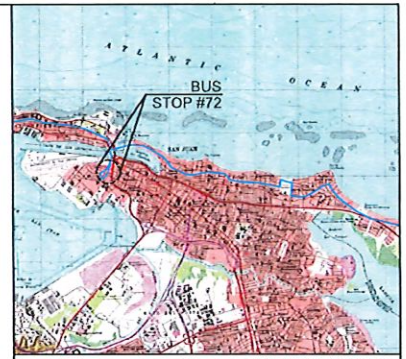


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#72



EXIST. CONDITIONS - ROUTE 53 | B.S.#72

2.5 0 5 15
SCALE 1:200

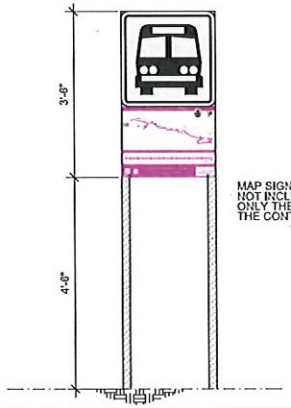


LOCATION PLAN
SCALE 1:20,000

18°27'25.13"N , 66° 5'17.59"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
- 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 REVOVE 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 2.60 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN ELTHE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PUERTO RICO CONVENTION DISTRICT AUTHORITY.
8. ANY ITEM IMPACTED BY THE CONTRACTOR SHALL BE REPLACED WITH THE SAME STYLE OR MODEL, REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero, Licencia No. 18134, certifico que soy el profesional que confeccionó, diseñó y/o preparó estas planos y las especificaciones complementarias. 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 Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier violación total o falsificación de la misma 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, civil y/o delictiva que la OGPe.

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

HERNAN E. LOPEZ BAEZ
INGENIERO LICENCIADO
LICENSE NO. 18134
PUERTO RICO

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #72

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ST. THOMAS BOULEVARD BEFORE LIMBERGH STREET
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

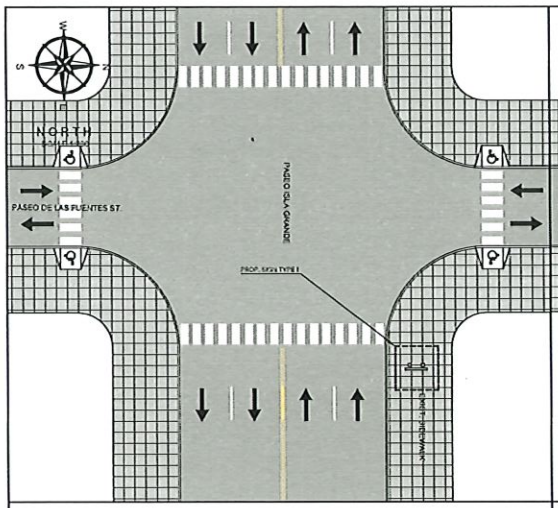
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.22	SHEET NO. 55 OF 73

ROUTE 53 | BUS STOP #73

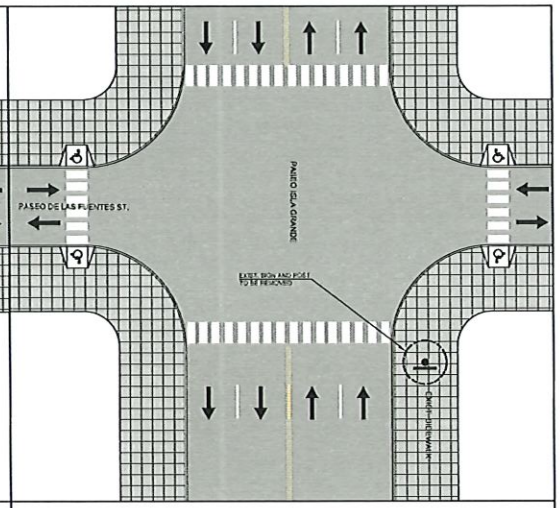
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

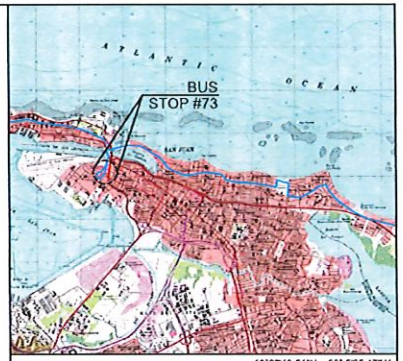


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#73



EXIST. CONDITIONS - ROUTE 53 | B.S.#73

2.5 0 5 15
SCALE 1:200

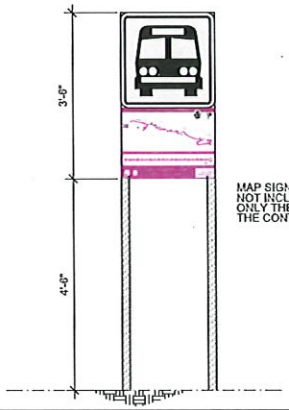


LOCATION PLAN
SCALE 1:20,000

18°27'19.51"N , 66° 5'25.47"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 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 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 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 2.62 M.
7. THE CONTRACTOR SHALL INSTALL THE PROPOSED SIGN IN TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PUERTO RICO CONVENTION DISTRICT AUTHORITY.
8. ANY TILE IMPACTED BY THE CONTRACTOR SHALL BE REPLACED WITH THE SAME STYLE OR MODEL. REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18-54, certifico que soy el profesional que corresponde, diseño y/o preparé estos planos y las especificaciones, cumplen estas. Further, 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 Aplicables de las Agencias, Juntas, Reglamentadoras o Corporaciones Públicas con jurisdicción. Reconozco que cualquier modificación total o fabricación de la misma que se haga o ejecute por desconocimiento, por negligencia o sin permiso, más 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
Guaynabo, PR 00778
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INGENIERO LICENCIADO
PUERTO RICO
HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18-54PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #73

FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
PASEO ISLA GRANDE BEFORE PASEO DE LAS FUENTES ST.
MUNICIPALITY OF SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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

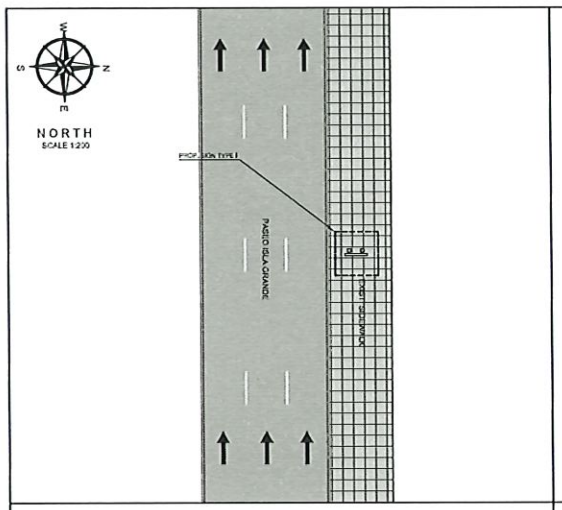
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.23	SHEET NO. 56 OF 73

ROUTE 53 | BUS STOP #74

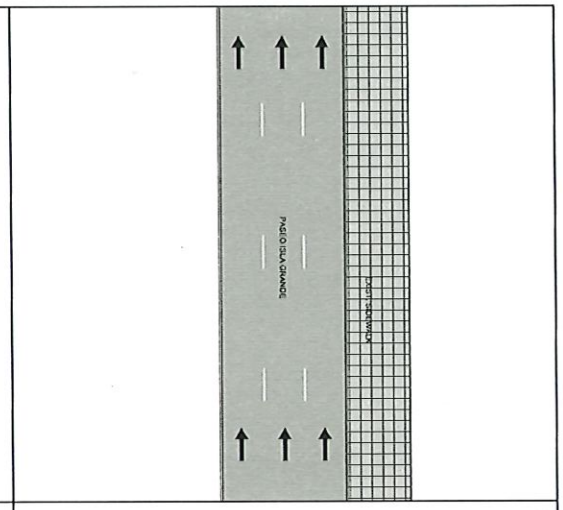
PHOTO - 1

PHOTO - 2

PHOTO - 3: PROPOSED SIGN LOCATION

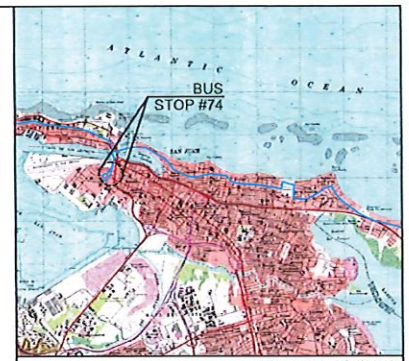


PROPOSED IMPROVEMENTS - ROUTE 53 | B.S.#74



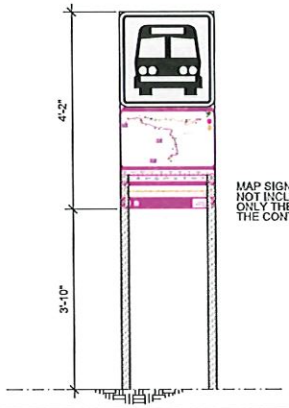
EXIST. CONDITIONS - ROUTE 53 | B.S.#74

2.5 0 5 15
SCALE 1:200



LOCATION PLAN
SCALE 1:20,000
18°27'24.55"N , 66° 5'16.37"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
- PRMSA EXCLUSIVE LANE (AMA LANE)
- TRAFFIC DIRECTION

NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE EXCAVATION, DEMOLITION, AND PERIS PERMITTING FROM THE SECRETARIAT 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 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 TILES. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION WITH PUERTO RICO CONVENTION DISTRICT AUTHORITY.
8. ANY TILE IMPACTED BY THE CONTRACTOR SHALL BE REPLACED WITH THE SAME STYLE OR MODEL. REFER TO PHOTO #3.

Yo, Hernan E. Lopez Baez, Ingeniero Reunido 18184, certifico que soy el profesional que certificó, diseñó y/o preparó estos planos y las especificaciones completas selladas. Certifico, además, que el diseño que aquí se detalla cumple 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 Cuerpo Normativo Público con jurisdicción. Reconozco que cualquier modificación total o fabricación de la misma que se haya producido por desconocimiento o por negligencia, 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, PE MEM
LIC. # 5-PE

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53 | BUS STOP #74

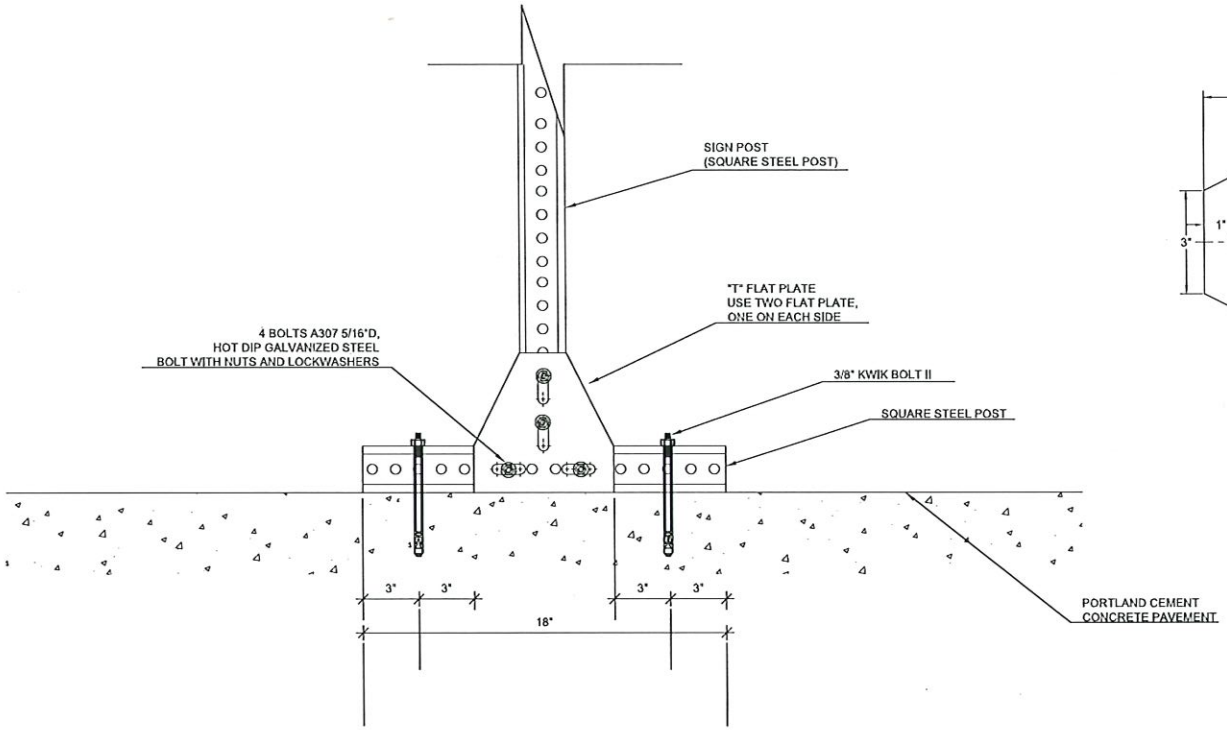
FROM SAN JUAN TO AEROPUERTO TO SAN JUAN
ST. THOMAS BOULEVARD AFTER FERNANDEZ JUNCOS AVE.
MUNICIPALITY OF SAN JUAN

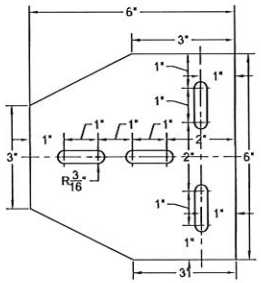
AUTORIDAD METROPOLITANA DE AUTOBUSES

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

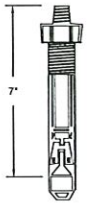
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-2.24	SHEET NO. 57 OF 73

ROUTE 53 | 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, Hernan E. Lopez Baez, Ingeniero, licencia 18134, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones cumpliendo 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.

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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18134

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
STEEL POST - INSTALATION TO CONCRETE SLAB

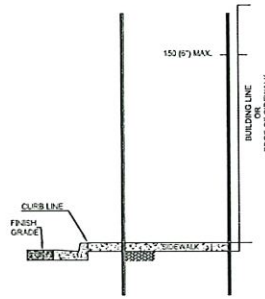
FROM COVADONGA TERMNAL TO LMM AIRPORT
MUNICIPALITES OF CAROLINA & SAN JUAN

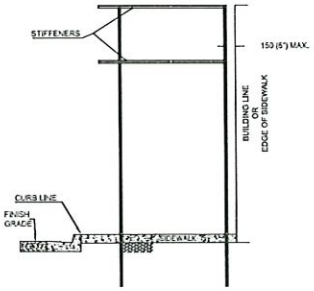
AUTORIDAD METROPOLITANA DE AUTOBUSES

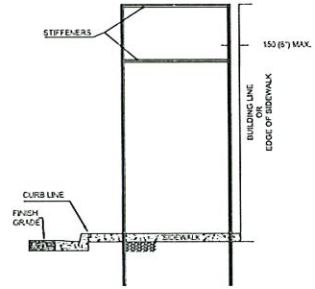
METROPOLITAN BUS AUTHORITY
BOX 195349
SAN JUAN, PR 00919-5349

REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-3.01	SHEET NO. 58 OF 73

ROUTE 53 | BUS STOPS

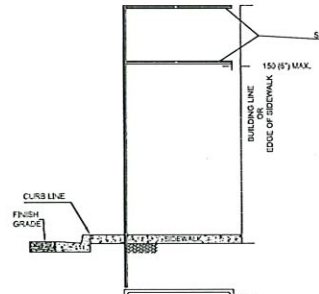






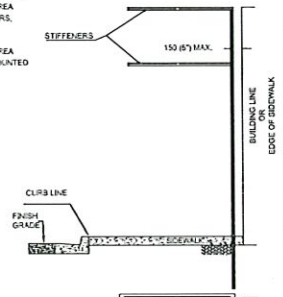
H SUPPORT MOUNTING

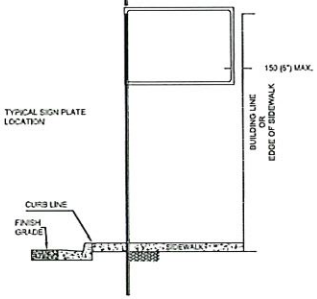
1. FOR SIGN PANELS WITH A SIGN PANEL AREA EQUAL OR LESS THAN 2.6 SQUARE METERS, 28 SQUARE FEET.
2. FOR SIGN PANELS WITH A SIGN PANEL AREA GREATER THAN 28 SQF USE GROUND MOUNTED BREAK-AWAY INSTALLATION.



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").

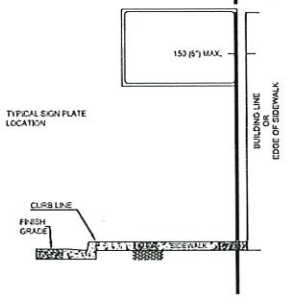




SINGLE SUPPORT MOUNTING

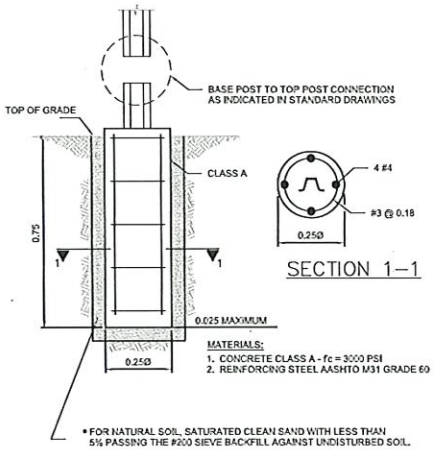
1. FOR SQUARE AND RECTANGULAR SIGN PANEL WITH A MAXIMUM HORIZONTAL WIDTH EQUAL OR LESS THAN 600 (24").

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 DRAWINGS.
   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

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

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

Yo, Hernan E. Lopez Baez, Ingeniero, licencia 18364, 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, las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas Reglamentadoras o Corporaciones Públicas con Jurisdicción. Reconozco que cualquier Enmienda, Mora o Modificación de los mismos que se haga posteriormente por desconocimiento o por negligencia, no me por mí, mis agentes o empleados o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y daños incurridos por la OGPe.

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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18364E

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
STEEL POST - INSTALATION TO CONCRETE SLAB
STEEL FLANGED CHANNEL

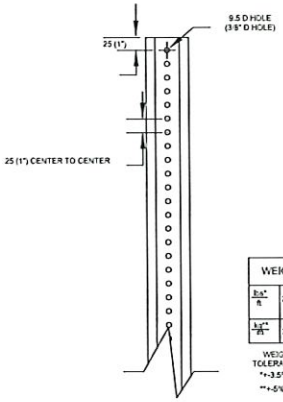
FROM COVADONGA TERMNAL TO LMM AIRPORT
MUNICIPALITES OF CAROLINA & SAN JUAN

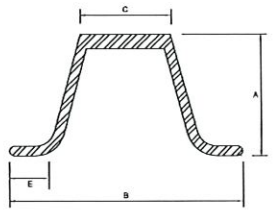
AUTORIDAD METROPOLITANA DE AUTOBUSES

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. 59 OF 73

ROUTE 53 | BUS STOPS





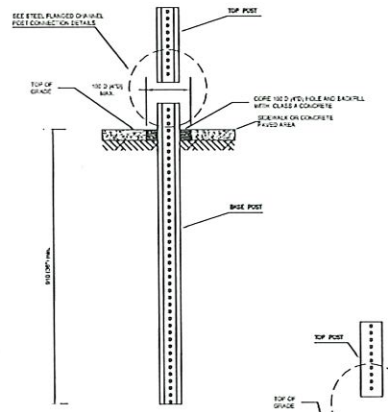
WEIGHT			NOMINAL DIMENSIONS			
			"A"	"B"	"C"	"E"
3/8" ft	2.00	IN	1.45 TO 1.55	3.00 TO 3.15	1.25 TO 1.33	0.62 TO 0.67
3/8" ft	3.00	MM	37 TO 38.5	73.5 TO 79.5	31.75 TO 32.5	15.8 TO 17.0

WEIGHT TOLERANCES
*+-3.5%
**+-5%

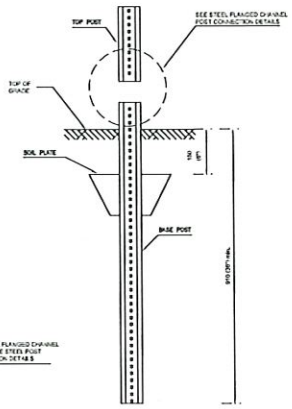
GENERAL NOTES:

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.

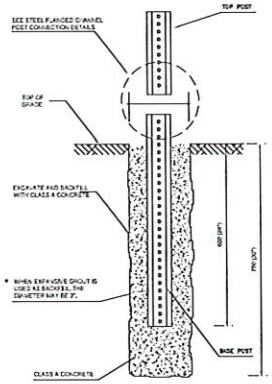
STEEL FLANGED CHANNEL
TOP OR BASE POST



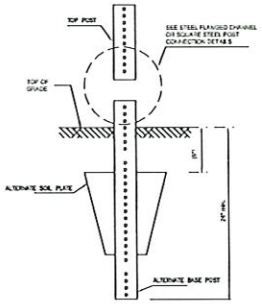
SIDEWALK OR CONCRETE
PAVED AREA



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 SLAB 6"D AND BACKFILL WITH CLASS A CONCRETE AS A SUBSIDIARY OBLIGATION.
3. FOR ROCK CONDITION, THE CONTRACTOR SHALL EXCAVATE (8" DIAMETER HOLE) AND BACKFILL WITH CLASS A CONCRETE OR EXCAVATE (12" 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, Hernan E. Lopez Baez, Ingeniero, licencia 18134, 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, las Disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas, Reglamentaciones o Corporaciones Públicas con Jurisdicción. Reconozco que cualquier modificación, falta o omisión 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.

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LIC. 18134
PUERTO RICO

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
STEEL POST - STEEL FLANGED CHANNEL DETAILS AND FOUNDATIONS

FROM COVADONGA TERMNAL TO LMM AIRPORT
MUNICIPALITES OF CAROLINA & SAN JUAN

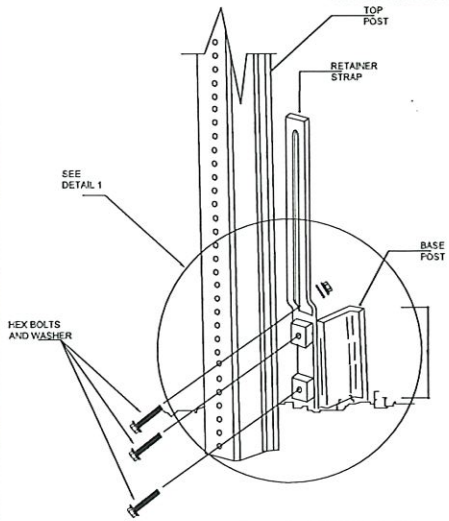
AUTORIDAD METROPOLITANA DE AUTOBUSES

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

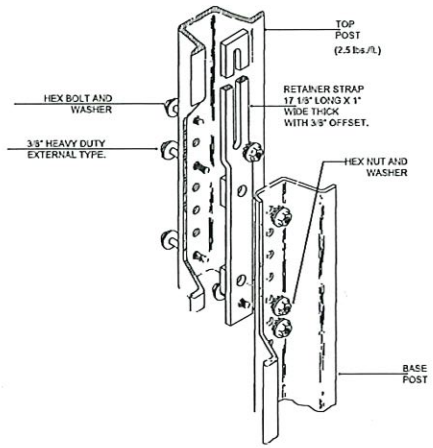
REVISION	
DATE: JUNE 2022	
CHECKED BY: BEV	DRAW BY: ABZ
DWG. TYPE: TS-3.03	SHEET NO. 60 OF 73

EZE-ERECT SYSTEM

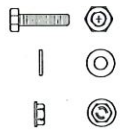
AS MANUFACTURED BY FRANKLIN INDUSTRIES



EZE-ERECT CONNECTION DETAIL



DETAIL 1

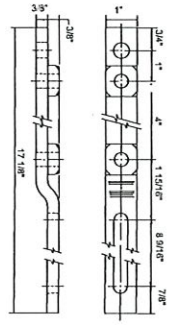


CLASS 12.9 HEX BOLT, WASHER AND NUT

AS SPECIFIED BY FRANKLIN INDUSTRIES

GENERAL NOTES FOR EZE-ERECT SIGN SUPPORT SYSTEM

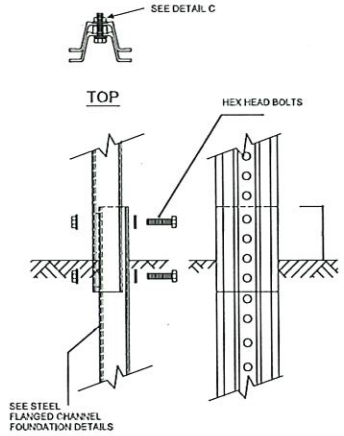
1. THE RETAINER STRAP SHALL BE GALVANIZED BY THE HOT DIP PROCESS CONFORMING TO ASTM A123.
2. HEX BOLT SHALL BE MANUFACTURED ACCORDING TO THE GEOMETRIC SPECIFICATIONS INCLUDED IN ANSI B18.2.3.5M THREADS SHALL CONFORM TO ANSI B1.13M FOR CLASS 6g THREADS.
3. MATERIALS FOR BOLTS SHALL CONFORM TO ASTM F568 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

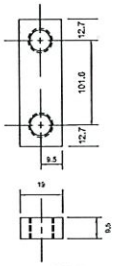
LAP SPLICE BREAKAWAY SYSTEM

AS MANUFACTURED BY MARION STEEL COMPANY



DETAIL A

SPLICE CONNECTION

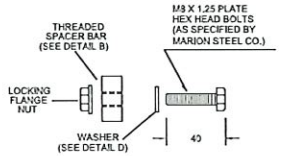


DETAIL B

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, Hernan E. Lopez Baez, Ingeniero, licencia N-34, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. Certifico, además, que el diseño 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 hayan 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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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
STEEL POST - STEEL FLANGED CHANNEL DETAILS AND FOUNDATIONS

FROM COVADONGA TERMNAL TO LMM AIRPORT
MUNICIPALITES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
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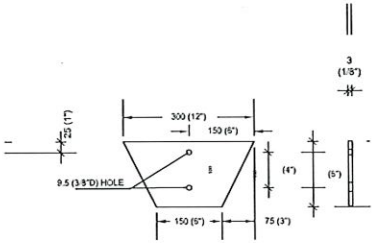
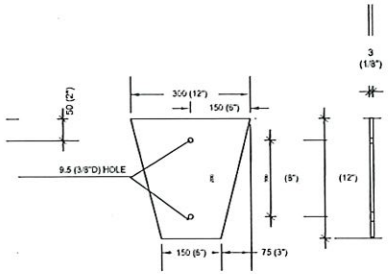
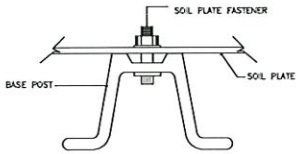
DWG. TYPE: TS-3.04	SHEET NO. 61 OF 73



SOIL PLATE

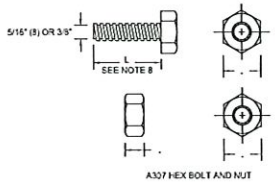


ALTERNATE SOIL PLATE



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. López Baez, Ingeniero, licencia 18134, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. Asimismo, certifico que en dichos planos y especificaciones cumplí 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, falsificación de los mismos 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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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
STEEL POST - STEEL FLANGED CHANNEL
SOIL PLATE DETAILS

FROM COVADONGA TERMNAL TO LMM AIRPORT
MUNICIPALITES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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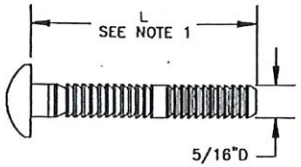
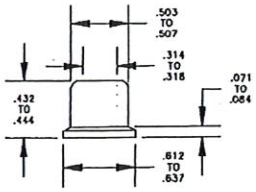
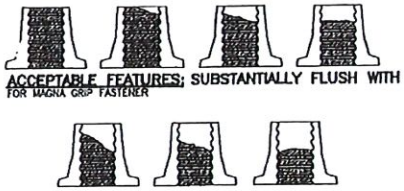


MAGNA GRIP FASTENER
AS MANUFACTURED BY HUCK
PART NUMBER IDENTIFICATION: MGPB-E 5/16" - 22 G

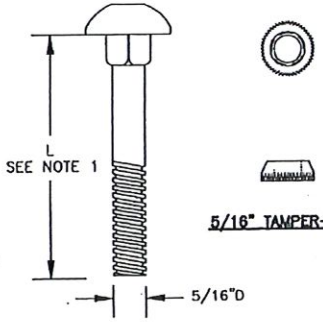


MAGNA GRIP COLLAR
AS MANUFACTURED BY HUCK
PART NUMBER IDENTIFICATION: MGC-F 5/16" G

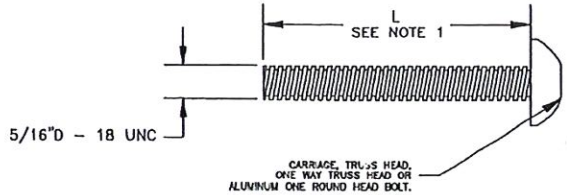


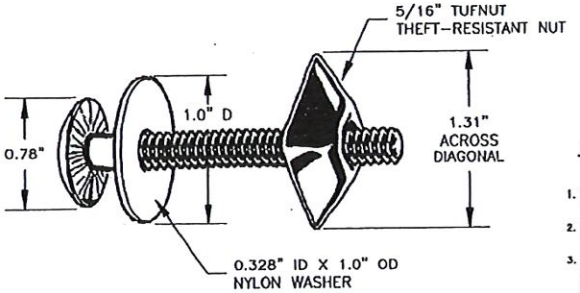
ACCEPTABLE FEATURES; SUBSTANTIALLY FLUSH WITH END
FOR MAGNA GRIP FASTENER

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.

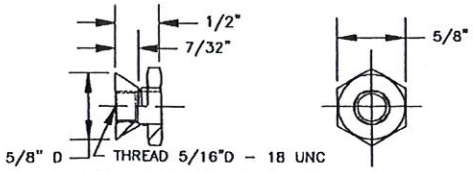
ALUMINUM VANDAL RESISTANT
GENERAL NOTES

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

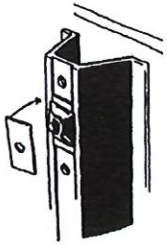
TRUSS HEAD BOLT

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 18134, certifico que soy el profesional que certificó, diseñó y/o preparó estas 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. Asimismo que cualquier deficiencia futura o Modificación de los Planos que se haga prevalecerá por desconocimiento o por negligencia que no sea por mi, me agenas a emplearlos, o por otras personas con mi consentimiento, me hacen responsable de cualquier acción judicial y/o civil ante por la OGPe.

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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 18134

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
STEEL POST - STEEL FLANGED CHANNEL
FOR ATTACHING SIGN PLATES TO TOP POST

FROM COVADONGA TERMNAL TO LMM AIRPORT
MUNICIPALITES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
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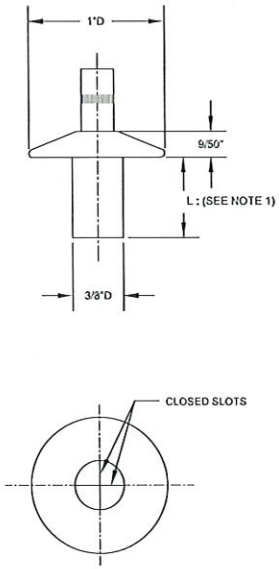
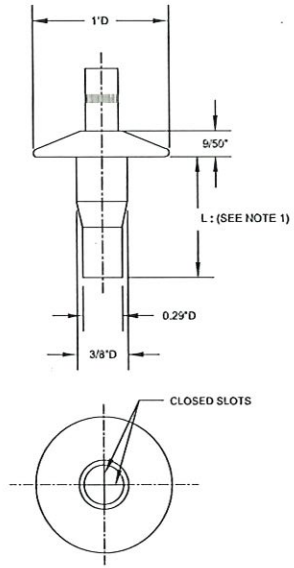


ALUMINUM SIGN RIVET - JUMBO HEAD

VCR 221
AS MANUFACTURED BY SIMI 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.

Yo, Hernan E. Lopez Baez, Ingeniero Licencia No 9614, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. También certifico que en la de 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 Enmienda Mayor o Modificación de los mismos que se haya producido por desconocimiento o por negligencia que sea por mí, mis agentes o empleados o por otra persona con mi consentimiento, me hacen responsable de cualquier acción judicial y daños ello por lo SOPU.

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HERNAN E. LOPEZ BAEZ, PE MEM
LIC. 9614

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
STEEL POST - STEEL FLANGED CHANNEL
SOIL PLATE FASTENERS DETAILS

FROM COVADONGA TERMNAL TO LMM AIRPORT
MUNICIPALITES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
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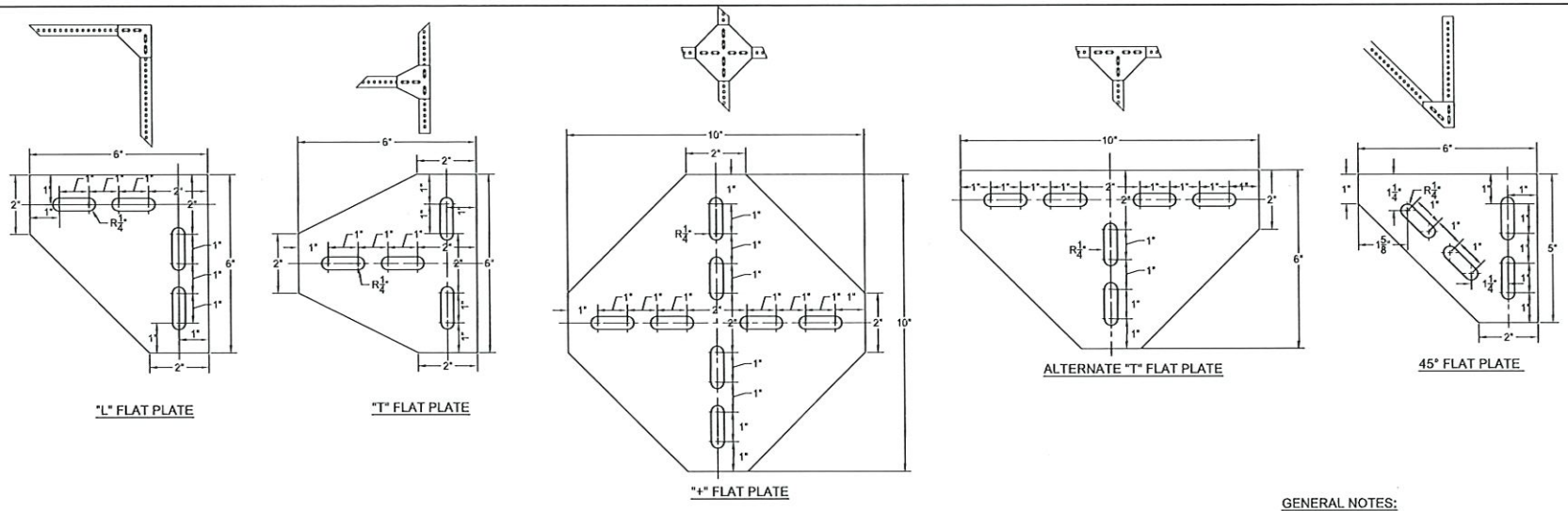
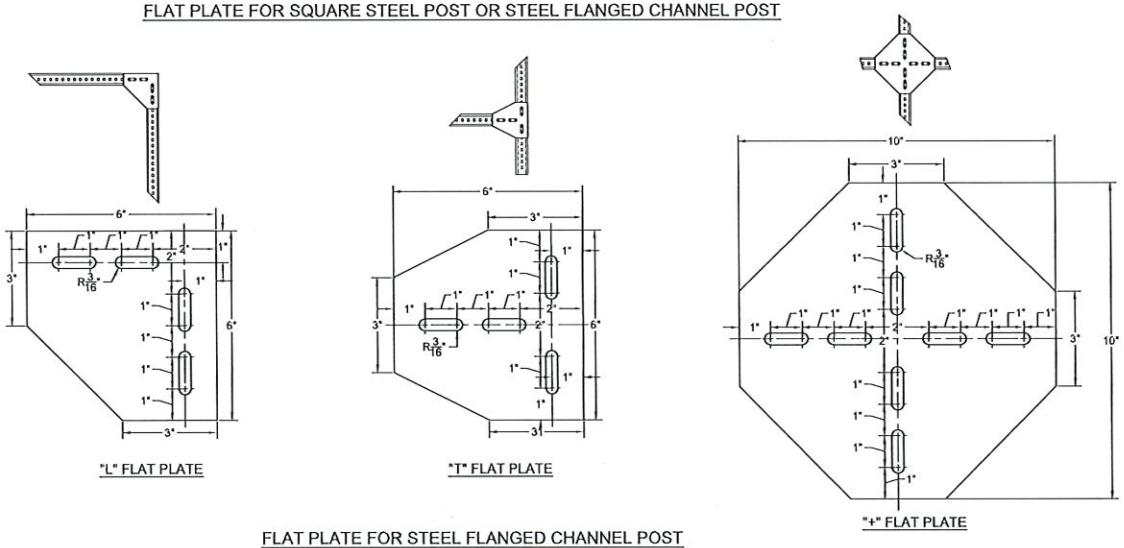


FLAT PLATE FOR SQUARE STEEL POST OR STEEL FLANGED CHANNEL POST



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.

Yo, Hernan E. Lopez Baez Ingeniero licencia 18134, certifico que soy el profesional que certificó, diseñó y preparó estos planos y las especificaciones complementarias. Further, 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 violación de los hechos que se hace producto por desconocimiento o por negligencia que sea por mi, 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, PE MEM
LIC. 18134E

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
STEEL POST - STEEL FLANGED CHANNEL
"L","T","+" AND"45° FLAT PLATES

FROM COVADONGA TERMNAL TO LMM AIRPORT
MUNICIPALITES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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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.

Yo, Hernan E. López Baez, Ingeniero Licencia No 14, certifico que soy el profesional que certificó, diseñó y preparó estos planos y las especificaciones completas aquí, y certifico que en ellas se dan todos los requisitos a cumplir por las Especificaciones 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 Enmienda, Mora y Modificación de los mismos que se haga posteriormente 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 daños a ellos por la DOPR.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
STEEL POST - STEEL FLANGED CHANNEL
GENERAL NOTES

FROM COVADONGA TERMNAL TO LMM AIRPORT
MUNICIPALITES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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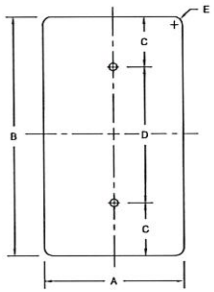
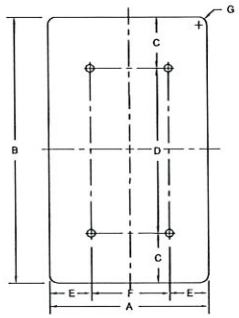


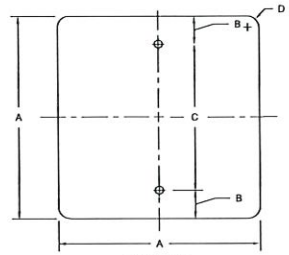
VERTICAL RECTANGLE

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



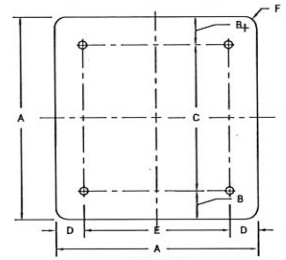
VERTICAL RECTANGLE

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



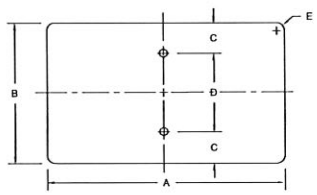
SQUARE

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



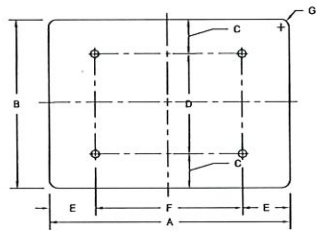
SQUARE

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, Hernan E. Lopez Baez, Ingeniero, licencia 18154, certifico que soy el profesional que contribuyó diseñó y preparó estas planos y las especificaciones complementarias. Certifico, además, que en la de la 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, Reglamentaciones o Corporaciones Públicas con Jurisdicción. Reconozco que cualquier deficiencia falta o omisión de los hechos que se haya producido por desconocimiento o por negligencia de mi parte, no me exime o implicados a por otras personas con el consultorías, me hacer responsable de cualquier acción judicial y daños ocasionados por la DOPH.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
STEEL POST - STEEL FLANGED CHANNEL
BLANK PLATE STANDARDS

FROM COVADONGA TERMNAL TO LMM AIRPORT
MUNICIPALITES OF CAROLINA & SAN JUAN

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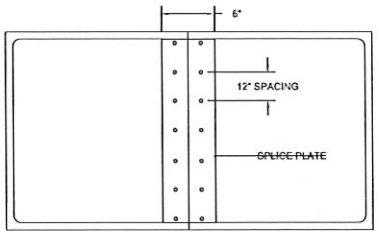

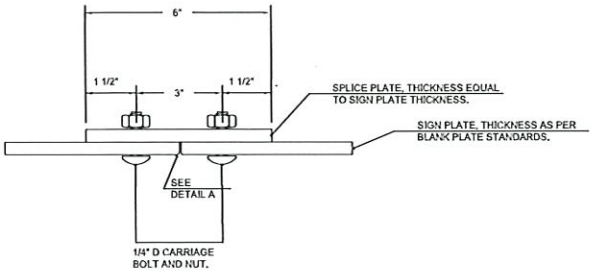

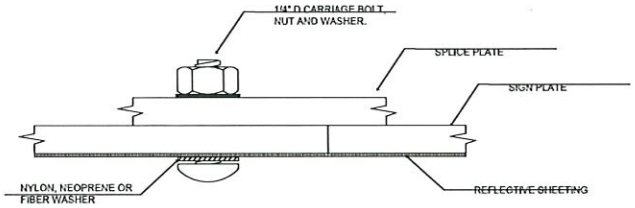

DETAIL A

SIGN PLATE SPLICES

GENERAL NOTES:

1. NO SPLICES IN SIGN PLATES SHALL BE PERMITTED WHEN SIGN DIMENSIONS ARE 1200 (4) X 1200 (4) OR LESS.

2. THE CONTRACTOR SHALL ADJUST THE LENGTH OF CARRIAGE BOLT. THE BOLT SHALL PENETRATE THE ENTIRE THICKNESS OF THE NUT.

Yo Hernan E. Lopez Baez Ingeniero Licencia 18154, certifico bajo mi juramento profesional que certificaré, diseñé y/o preparé estos planos y las especificaciones cumplen con las Especificaciones aplicables del Reglamento Conjunto y las disposiciones aplicables de los Reglamentos y Códigos de Construcción Vigentes de las Agencias, Juntas, Reglamentaciones o Corporaciones Públicas con Jurisdicción. Reconozco 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 consentimiento, me hacen responsable de cualquier acción judicial y daños a ello por la DOPR.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
STEEL POST - STEEL FLANGED CHANNEL
SIGN PANEL SPLICES

FROM COVADONGA TERMNAL TO LMM AIRPORT
MUNICIPALITES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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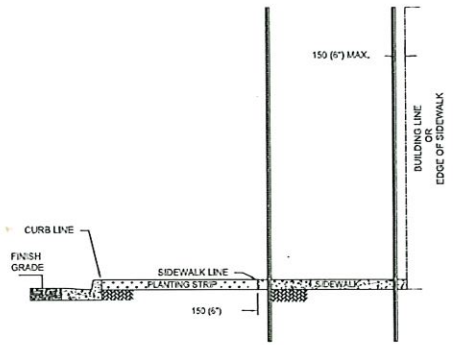
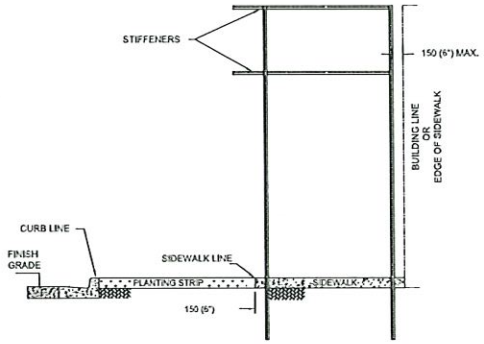
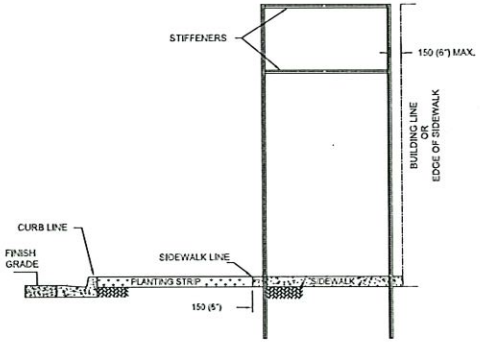
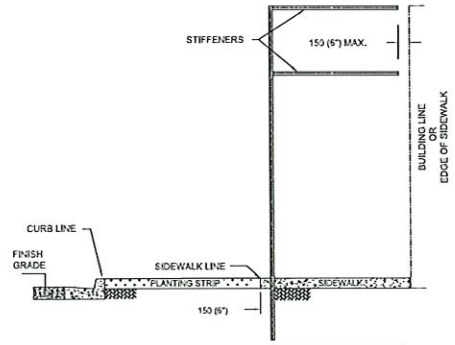


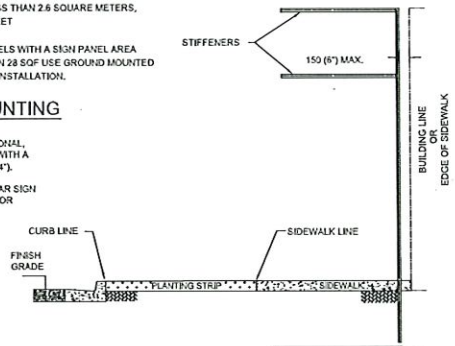




H SUPPORT MOUNTING

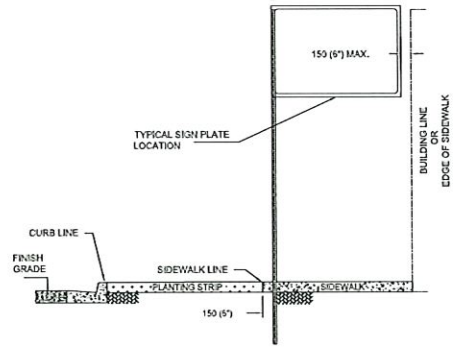
1. FOR SIGN PANELS WITH A SIGN PANEL AREA EQUAL OR LESS THAN 2.6 SQUARE METERS, 28 SQUARE FEET
2. FOR SIGN PANELS WITH A SIGN PANEL AREA GREATER THAN 28 SQF USE GROUND MOUNTED BREAK-AWAY INSTALLATION.

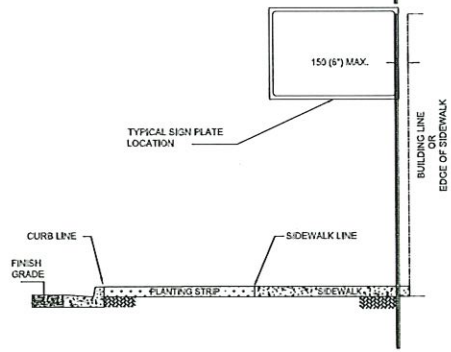




CANTILEVER SUPPORT MOUNTING

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, Hernan E. Lopez Baez, Ingeniero Licencia 18164, certifico bajo mi juramento profesional que certifico, diseño y/o preparé estas planos y las especificaciones cumplen en todos sentidos que en 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 deliberación falsa o falsificación de los hechos que se haya producido por desconocimiento o por negligencia por mi, 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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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
STEEL POST - STEEL FLANGED CHANNEL
MOUNTING ON SIDEWALK AND PLANTING AREAS

FROM COVADONGA TERMNAL TO LMM AIRPORT
MUNICIPALITES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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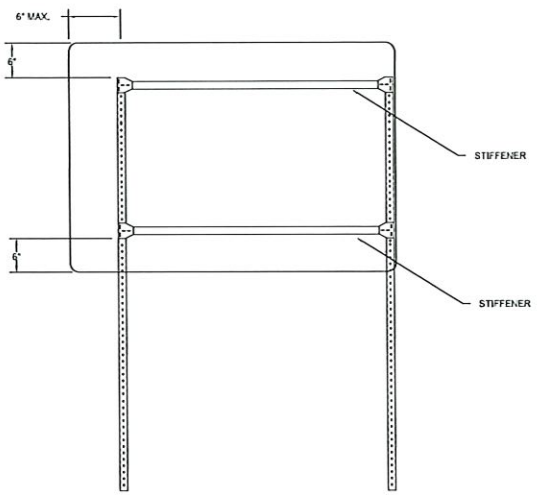
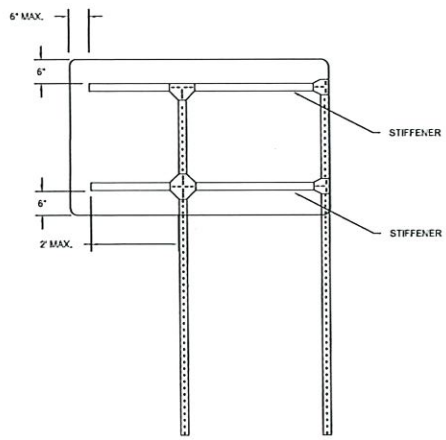
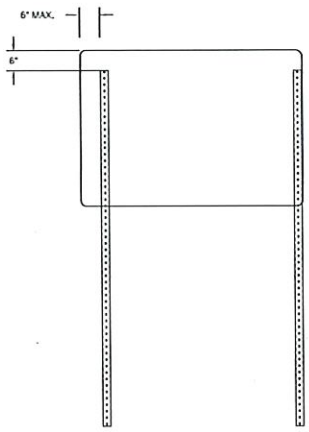
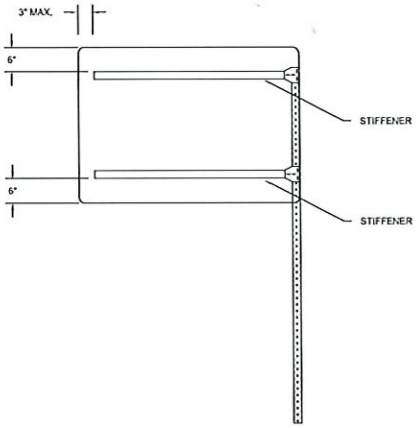






TYPICAL POST LOCATION FOR H SUPPORT MOUNTING



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 18134, certifico que soy el profesional que confeccionó, diseñó y/o revisó estos planos y las especificaciones cumpliendo todas, 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 Enmienda, Adición o Modificación de los mismos que se haga posterior por desconocimiento o por negligencia, yo no, ni mis agentes o empleados, o por otra persona con mi consentimiento, me hacen responsable de cualquier acción Judicial y Administrativa por la OGPe.

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LIC. 18134E

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
STEEL POST - TYPICAL POST LOCATION FOR MOUNTING ON SIDEWALK AREAS WITH OR WITHOUT PLANTING STRIP

FROM COVADONGA TERMNAL TO LMM AIRPORT
MUNICIPALITES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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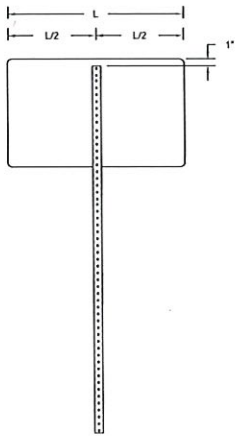
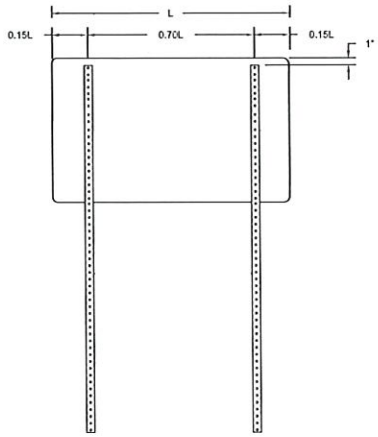


1 POST



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. López Baez, Ingeniero, Licencia 18134, certifico bajo mi juramento profesional que certificaré, diseñé y/o preparé estos planos y las especificaciones complementarias. También certifico 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 Reglamentadoras y Corporaciones Públicas del Gobierno. Reconozco que cualquier Enmienda Mayor o Modificación de los trabajos que se hagan productos 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.

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LIC. 18134
PUERTO RICO

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

BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
STEEL POST - TYPICAL POST LOCATION
FOR MOUNTING STANDARDS

FROM COVADONGA TERMNAL TO LMM AIRPORT
MUNICIPALITES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

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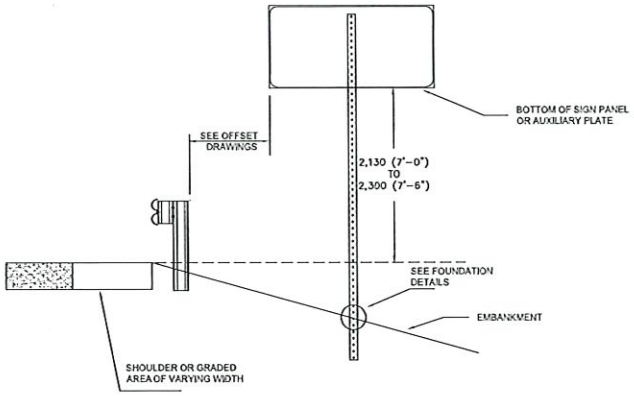
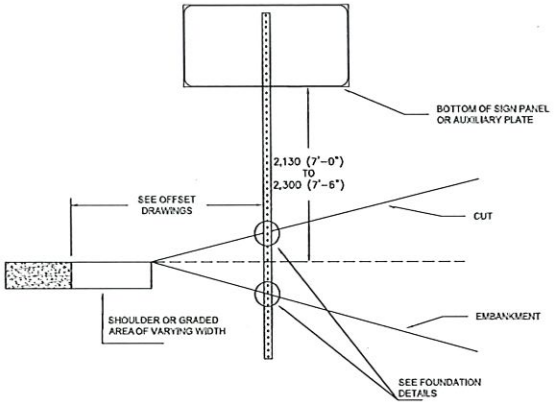
GENERAL NOTES:

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.





Yo Hernan E. Lopez Baez Ingeniero licencia 18134, certifico bajo mi propia responsabilidad que certifico, diseño y/o preparé estas planos y las especificaciones complementarias. También certifico que en la(s) que dichas 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 Agencias, Juntas Reglamentadoras y Corporaciones Públicas con Jurisdicción. Reconozco que cualquier deficiencia Mayor o Modificación de los mismos que sea hecha por otras personas o por negligencia, yo no soy el, ni mis agentes o empleados o por otra persona con mi consentimiento, me hacen responsable de cualquier acción judicial y deficiencia por la OGPe.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
STEEL POST - TYPICAL POST LOCATION
FOR GRASS MOUNTING STANDARDS

FROM COVADONGA TERMNAL TO LMM AIRPORT
MUNICIPALITES OF CAROLINA & SAN JUAN

AUTORIDAD METROPOLITANA DE AUTOBUSES

METROPOLITAN BUS AUTHORITY
BOX 195349
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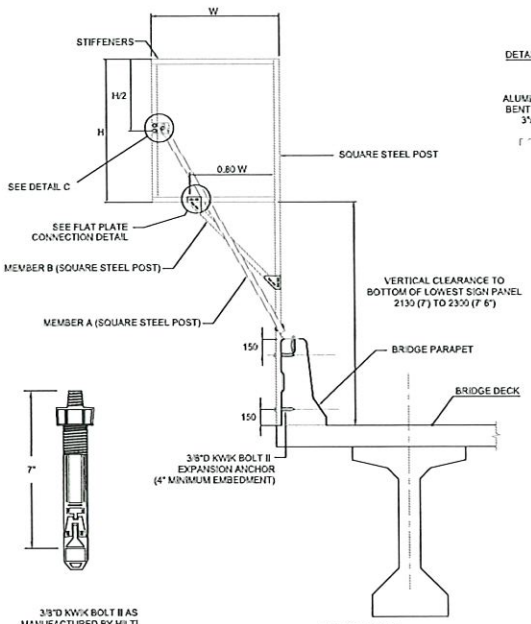
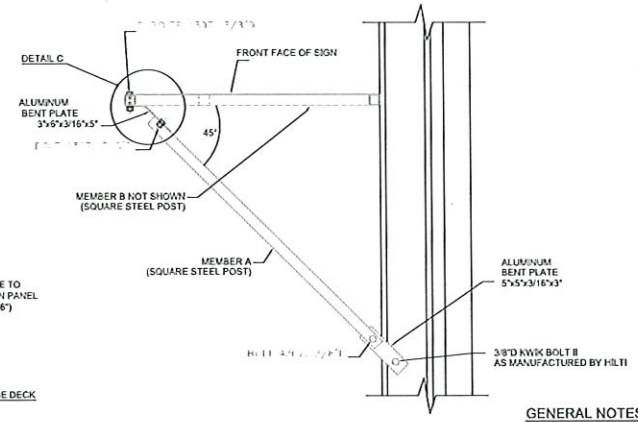


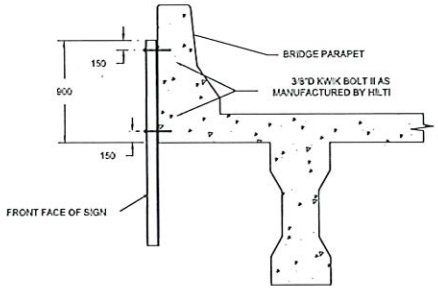
ELEVATION

3/8"D KWIK BOLT II AS MANUFACTURED BY HILTI

ANCHOR



PLAN



OVERHEAD MOUNTING

USE ONE STEEL FLANGED CHANNEL POST OR ONE SQUARE STEEL POST FOR SIGNS W12-2 600 (2') X 600 (2'), 750 (2'-6") X 750 2'-6"), AND 900 (3') X 900 (3').

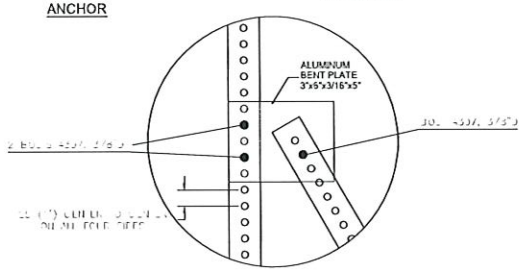
USE TWO STEEL FLANGED CHANNEL POST OR TWO SQUARE STEEL POST FOR SIGNS W12-2 1200 (4') X 1200 (4') AND 1500 (5') X 1500 (5') OR GREATER, OR ANY OTHER SIGNS INDICATED IN THE CONSTRUCTION PLANS.

GENERAL NOTES:

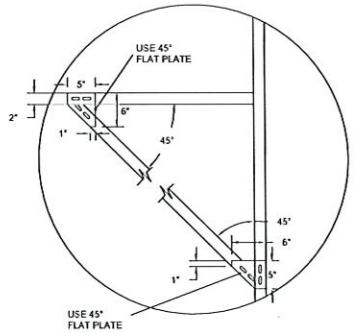
1. FOR CANTILEVER SUPPORT MOUNTING ONLY SQUARE STEEL POST SHALL BE USED.
2. CONTRACTORS, SUBCONTRACTORS OR SUPPLIERS WHO WISH TO INCLUDE THEIR PRODUCTS INTO THE APPROVED LISTING OF ANCHORS MUST SUBMIT THE FOLLOWING INFORMATION FOR CONSIDERATION BY THE AUTHORITY: FULL DESCRIPTION AND DRAWINGS OF THE ANCHOR INCLUDING DIMENSION OF ALL COMPONENTS AND COMPLETE MATERIAL DESCRIPTION, GALVANIZING AND OTHER PERTINENT INFORMATION.

   KWIK BOLT SHALL BE ZINC PLATED IN ACCORDANCE WITH ASTM B633, TYPE III FE/ZN 5.
3. THE CONTRACTOR SHALL FOLLOW HILTI INSTRUCTIONS FOR 3/8" KWIK BOLT II INSTALLATION.
4. THE CONTRACTOR SHALL USE FLAT PLATES FOR POST TO STIFFENERS CONNECTION AS A SUBSIDIARY OBLIGATION.
5. ALL POSTS SHALL BE CONTINUOS IN LENGTH.
6. FOR OVERHEAD MOUNTING, THE SIGN SHALL BE INSTALLED WITHOUT REDUCTION IN THE EXISTING BRIDGE CLEARANCE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO ADJUST THE LENGTH OF STIFFENERS ACCORDING TO THE PANEL SHAPE.
8. THE CONTRACTOR SHALL USE THREE VANDAL RESISTANT FASTENERS TO ATTACH THE SIGN PANEL TO EACH STIFFENER. THE FASTENERS
9. SHALL BE LOCATED ONE IN EACH EXTREME AND ONE IN THE CENTER OF STIFFENER.

   THE CONTRACTOR SHALL ADJUST THE LENGTH OF BOLT TO PENETRATE THE ENTIRE THICKNESS OF THE NUT.
10. ALL ALUMINUM BENT PLATES SHALL CONFORM TO ASTM B-209, ALLOYS 5052 H-32, 5052 H-36,
11. 5052 H-38, 5086 H-34, 5154 H-36 OR 6061 T-6.



DETAIL C



FLAT PLATE CONNECTION DETAIL

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 (48").
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 N-54, certifico que soy el profesional que confeccionó, diseñó y preparó estos planos y las especificaciones complementarias. Certifico, además, que en el diseño que dichos planos y 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 deficiencia, falta o infracción de los hechos que se haya producido por desconocimiento o por negligencia, de mi parte o de agentes o empleados, o por otra persona por mí considerada, me hacen responsable de cualquier acción judicial y daños que pueda ocasionar.

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BUS STOP SIGNAGE PROJECT - PHASE 1
ROUTE 53
STEEL POST - TYPICAL POST LOCATION FOR MOUNTING STANDARDS

FROM COVADONGA TERMNAL TO LMM AIRPORT
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