SOILS

Map Unit Name (Series and Phase): MIXED ORIGIN FILL

Drainage Class: _____

Field Observations Confirm Mapped Type? ☐ Yes ☐ No

Taxonomy (Subgroup): _____

Profile Descriptions:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc,

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Local Hydric Soils List
- ☐ Listed on National Hydric Soils List
- ☐ Other (Explain in Remarks)

Remarks:

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☐ Yes ☒ No	(Check)
Wetland Hydrology Present?	☐ Yes ☒ No	
Hydric Soils Present?	☐ Yes ☒ No	

(Check)

Is this Sampling Point Within a Wetland? ☐ Yes ☒ No

Remarks

Approved by HQUSACE 3/92

Forms version 1/02

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site:	Tranvia de Carolina	Date:	Jan 2007
Applicant/Owner:	AFI, Muncipio Carolina	County:	Carolina
Investigator:	RiveraLugo,PJ	State:	Puerto Rico
Do Normal Circumstances exist on the site?	☒Yes ☐No	Community ID:	
Is the site significantly disturbed (Atypical Situation)?	☐Yes ☒No	Transect ID:	4
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐Yes ☒No	Plot ID:	a

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Merremia umbelata	H	NI	9.		
2. Chloris barbata	H	FACU	10.		
3. Bidens alba	H	NI	11.		
4. Eleusine indica	H	FAC	12.		
5. Phyllanthus amarus	H	NI	13.		
6. Veithchia merillii	T	NI	14.		
7. Pithecellobium dulce	T	NI	15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

☐ Recorded Data (Describe in Remarks):
- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☐ No Recorded Data Available

Field Observations:

Depth of Surface Water: _____ (in.)

Depth to Free Water in Pit: _____ (in.)

Depth to Saturated Soil: _____ (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☐ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks:

SOILS

Map Unit Name (Series and Phase): MIXED ORIGIN FILL

Drainage Class: _____

Field Observations Confirm Mapped Type? ☐Yes ☐ No

Taxonomy (Subgroup): _____

Profile Descriptions:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc,

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Local Hydric Soils List
- ☐ Listed on National Hydric Soils List
- ☐ Other (Explain in Remarks)

Remarks: IMPERVIOUS SURFACES URBAN SETTING

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☐Yes ☒No (Check)

Wetland Hydrology Present? ☐Yes ☒No

Hydric Soils Present? ☐Yes ☒No

(Check)

Is this Sampling Point Within a Wetland? ☐Yes ☒No

Remarks

Approved by HQUSACE 3/92

Forms version 1/02

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site:	Tranvia de Carolina	Date:	Jan 2007
Applicant/Owner:	AFI, Muncipio Carolina	County:	Carolina
Investigator:	RiveraLugo,PJ	State:	Puerto Rico

Do Normal Circumstances exist on the site?	☐Yes	☐No	Community ID:	
Is the site significantly disturbed (Atypical Situation)?	☐Yes	☒No	Transect ID:	3
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐Yes	☒No	Plot ID:	c

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Cordylene sp	S	NI	9.		
2. Tabebuia rosea	T	NI	10.		
3. Ficus microcarpa	T	NI	11.		
4. Heliconia psittacorum	H	NI	12.		
5. Commelina diffusa	H	FACW	13.		
6. Chloris barbata	H	FACU	14.		
7. Desmodium scorpiurus	H	FAC	15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

☐ Recorded Data (Describe in Remarks):
- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☐ No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☐ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks:

SOILS

Map Unit Name (Series and Phase): MIXED ORIGIN FILL

Drainage Class: _____

Field Observations Confirm Mapped Type? ☐ Yes ☐ No

Taxonomy (Subgroup): _____

Profile Descriptions:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc,

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Local Hydric Soils List
- ☐ Listed on National Hydric Soils List
- ☐ Other (Explain in Remarks)

Remarks: IMPERVIOUS SURFACES URBAN SETTING

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☐ Yes ☒ No (Check)

Wetland Hydrology Present? ☐ Yes ☒ No

Hydric Soils Present? ☐ Yes ☒ No

(Check)

Is this Sampling Point Within a Wetland? ☐ Yes ☒ No

Remarks

Approved by HQUSACE 3/92

Forms version 1/02

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site:	Tranvia de Carolina	Date:	Jan 2007
Applicant/Owner:	AFI, Muncipio Carolina	County:	Carolina
Investigator:	RiveraLugo,PJ	State:	Puerto Rico

Do Normal Circumstances exist on the site?	☐Yes	☐No	Community ID:	
Is the site significantly disturbed (Atypical Situation)?	☐Yes	☒No	Transect ID:	3
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐Yes	☒No	Plot ID:	b

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Cordylene sp	S	NI	9.		
2. Tabebuia rosea	T	NI	10.		
3. Ficus microcarpa	T	NI	11.		
4. Heliconia psittacorum	H	NI	12.		
5. Commelina diffusa	H	FACW	13.		
6. Chloris barbata	H	FACU	14.		
7. Desmodium scorpiurus	H	FAC	15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

☐ Recorded Data (Describe in Remarks):
- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☐ No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☐ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks:

SOILS

Map Unit Name (Series and Phase): MIXED ORIGIN FILL

Drainage Class: _____

Field Observations Confirm Mapped Type? ☐Yes ☐ No

Taxonomy (Subgroup): _____

Profile Descriptions:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc,

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Local Hydric Soils List
- ☐ Listed on National Hydric Soils List
- ☐ Other (Explain in Remarks)

Remarks: IMPERVIOUS SURFACES URBAN SETTING

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☐Yes ☒No (Check)

Wetland Hydrology Present? ☐Yes ☒No

Hydric Soils Present? ☐Yes ☒No

(Check)

Is this Sampling Point Within a Wetland? ☐Yes ☒No

Remarks

Approved by HQUSACE 3/92

Forms version 1/02

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site:	Tranvia de Carolina	Date:	Jan 2007
Applicant/Owner:	AFI, Muncipio Carolina	County:	Carolina
Investigator:	RiveraLugo,PJ	State:	Puerto Rico

Do Normal Circumstances exist on the site?	☐Yes	☐No	Community ID:	
Is the site significantly disturbed (Atypical Situation)?	☐Yes	☒No	Transect ID:	3
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐Yes	☒No	Plot ID:	a

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Cordylene sp	S	NI	9.		
2. Tabebuia rosea	T	NI	10.		
3. Ficus microcarpa	T	NI	11.		
4. Heliconia psittacorum	H	NI	12.		
5. Commelina diffusa	H	FACW	13.		
6. Chloris barbata	H	FACU	14.		
7. Desmodium scorpiurus	H	FAC	15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

☐ Recorded Data (Describe in Remarks):
- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☐ No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☐ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks:

SOILS

Map Unit Name (Series and Phase): MIXED ORIGIN FILL

Drainage Class: _____

Field Observations Confirm Mapped Type? ☐ Yes ☐ No

Taxonomy (Subgroup): _____

Profile Descriptions:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc,

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Local Hydric Soils List
- ☐ Listed on National Hydric Soils List
- ☐ Other (Explain in Remarks)

Remarks: IMPERVIOUS SURFACE URBAN SETTING

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☐ Yes ☒ No	(Check)
Wetland Hydrology Present?	☐ Yes ☒ No	
Hydric Soils Present?	☐ Yes ☒ No	

(Check)

Is this Sampling Point Within a Wetland? ☐ Yes ☒ No

Remarks

Approved by HQUSACE 3/92

Forms version 1/02

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site:	Tranvia de Carolina	Date:	Jan 2007
Applicant/Owner:	AFI, Muncipio Carolina	County:	Carolina
Investigator:	RiveraLugo,PJ	State:	Puerto Rico

Do Normal Circumstances exist on the site?	☒Yes	☐No	Community ID:	
Is the site significantly disturbed (Atypical Situation)?	☐Yes	☒No	Transect ID:	2
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐Yes	☒No	Plot ID:	c

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Phoenix dactylifera	T	NI	9.		
2. Strelitzia sp	S	NI	10.		
3. Veithchia merillii	T	NI	11.		
4. Euphorbia heterophylla	H	FAC	12.		
5. Tabebuia rosea	T	NI	13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

☐ Recorded Data (Describe in Remarks):
- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☐ No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☐ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks:

SOILS

Map Unit Name (Series and Phase): MIXED ORIGIN FILL

Drainage Class: _____

Field Observations Confirm Mapped Type? ☐ Yes ☐ No

Taxonomy (Subgroup): _____

Profile Descriptions:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc,

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Local Hydric Soils List
- ☐ Listed on National Hydric Soils List
- ☐ Other (Explain in Remarks)

Remarks: IMPERVIOUS SURFACE URBAN SETTING

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☐ Yes ☒ No (Check)

Wetland Hydrology Present? ☐ Yes ☒ No

Hydric Soils Present? ☐ Yes ☒ No

(Check)

Is this Sampling Point Within a Wetland? ☐ Yes ☒ No

Remarks

Approved by HQUSACE 3/92

Forms version 1/02

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site:	Tranvia de Carolina	Date:	Jan 2007
Applicant/Owner:	AFI, Muncipio Carolina	County:	Carolina
Investigator:	RiveraLugo,PJ	State:	Puerto Rico

Do Normal Circumstances exist on the site?	☒Yes	☐No	Community ID:	
Is the site significantly disturbed (Atypical Situation)?	☐Yes	☒No	Transect ID:	2
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐Yes	☒No	Plot ID:	b

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Phoenix dactylifera	T	NI	9.		
2. Strelitzia sp	S	NI	10.		
3. Veithchia merillii	T	NI	11.		
4. Euphorbia heterophylla	H	FAC	12.		
5. Tabebuia rosea	T	NI	13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

☐ Recorded Data (Describe in Remarks):
- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☐ No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☐ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks:

SOILS

Map Unit Name (Series and Phase): MIXED ORIGIN FILL

Drainage Class: _____

Field Observations Confirm Mapped Type? ☐ Yes ☐ No

Taxonomy (Subgroup): _____

Profile Descriptions:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc,

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Local Hydric Soils List
- ☐ Listed on National Hydric Soils List
- ☐ Other (Explain in Remarks)

Remarks: IMPERVIOUS SURFACE URBAN SETTING

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☐ Yes ☒ No (Check)

Wetland Hydrology Present? ☐ Yes ☒ No

Hydric Soils Present? ☐ Yes ☒ No

(Check)

Is this Sampling Point Within a Wetland? ☐ Yes ☒ No

Remarks

Approved by HQUSACE 3/92

Forms version 1/02

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site:	Tranvia de Carolina	Date:	Jan 2007
Applicant/Owner:	AFI, Muncipio Carolina	County:	Carolina
Investigator:	RiveraLugo,PJ	State:	Puerto Rico
Do Normal Circumstances exist on the site?	☒Yes ☐No	Community ID:	
Is the site significantly disturbed (Atypical Situation)?	☐Yes ☒No	Transect ID:	2
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐Yes ☒No	Plot ID:	a

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Phoenix dactylifera	T	NI	9.		
2. Strelitzia sp	S	NI	10.		
3. Veithchia merillii	T	NI	11.		
4. Euphorbia heterophylla	H	FAC	12.		
5. Tabebuia rosea	T	NI	13.		
6.			14.		
7.			15.		
8.			16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

☐ Recorded Data (Describe in Remarks):
- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☐ No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☐ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks:

SOILS

Map Unit Name (Series and Phase): MIXED ORIGIN FILL

Drainage Class: _____

Field Observations Confirm Mapped Type? ☐ Yes ☐ No

Taxonomy (Subgroup): _____

Profile Descriptions:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc,

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Local Hydric Soils List
- ☐ Listed on National Hydric Soils List
- ☐ Other (Explain in Remarks)

Remarks: IMPERVIOS SURFACE URBAN SETING

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☐ Yes ☒ No (Check)

Wetland Hydrology Present? ☐ Yes ☒ No

Hydric Soils Present? ☐ Yes ☒ No

(Check)

Is this Sampling Point Within a Wetland? ☐ Yes ☒ No

Remarks

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site:	Tranvia de Carolina	Date:	Jan 2007
Applicant/Owner:	AFI, Muncipio Carolina	County:	Carolina
Investigator:	RiveraLugo,PJ	State:	Puerto Rico

Do Normal Circumstances exist on the site?	☒Yes	☐No	Community ID:	
Is the site significantly disturbed (Atypical Situation)?	☐Yes	☒No	Transect ID:	1
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐Yes	☒No	Plot ID:	c

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Swietenia mahagony	T	NI	9.		
2. Pithecellobium dulce	T	NI	10.		
3. Swietenia macrophylla	T	NI	11.		
4. Cocos nucifera	T	FACU	12.		
5. Roystonea borinquena	T	FAC	13.		
6. Bucidas buceras	T	FAC	14.		
7. Ixora coccinea	S	NI	15.		
8. Bothriochloa pertusa	H	NI	16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

☐ Recorded Data (Describe in Remarks):
- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☐ No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☐ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
- ☐ Oxidized Root Channels in Upper 12 Inches
- ☐ Water-Stained Leaves
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks:

SOILS

Map Unit Name (Series and Phase): MIXED ORIGIN FILL

Drainage Class:

Field Observations Confirm Mapped Type? ☐ Yes ☐ No

Taxonomy (Subgroup):

Profile Descriptions:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc,

Hydric Soil Indicators:

- ☐ Histosol
- ☐ Histic Epipedon
- ☐ Sulfidic Odor
- ☐ Aquic Moisture Regime
- ☐ Reducing Conditions
- ☐ Gleyed or Low-Chroma Colors
- ☐ Concretions
- ☐ High Organic Content in Surface Layer in Sandy Soils
- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Local Hydric Soils List
- ☐ Listed on National Hydric Soils List
- ☐ Other (Explain in Remarks)

Remarks: IMPERVIOS SURFACE URBAN SETING

WETLAND DETERMINATION

Hydrophytic Vegetation Present?	☐ Yes ☒ No	(Check)
Wetland Hydrology Present?	☐ Yes ☒ No	
Hydric Soils Present?	☐ Yes ☒ No	

(Check)

Is this Sampling Point Within a Wetland? ☐ Yes ☒ No

Remarks

Approved by HQUSACE 3/92

Forms version 1/02

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site:	Tranvia de Carolina	Date:	Jan 2007
Applicant/Owner:	AFI, Muncipio Carolina	County:	Carolina
Investigator:	RiveraLugo,PJ	State:	Puerto Rico

Do Normal Circumstances exist on the site?	☒Yes	☐No	Community ID:	
Is the site significantly disturbed (Atypical Situation)?	☐Yes	☒No	Transect ID:	1
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐Yes	☒No	Plot ID:	b

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
1. Swietenia mahagony	T	NI	9.		
2. Pithecellobium dulce	T	NI	10.		
3. Swietenia macrophylla	T	NI	11.		
4. Cocos nucifera	T	FACU	12.		
5. Roystonea borinquena	T	FAC	13.		
6. Bucidas buceras	T	FAC	14.		
7. Ixora coccinea	S	NI	15.		
8. Bothriochloa pertusa	H	NI	16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

☐ Recorded Data (Describe in Remarks):
- ☐ Stream, Lake, or Tide Gauge
- ☐ Aerial Photographs
- ☐ Other

☐ No Recorded Data Available

Field Observations:

Depth of Surface Water: NA (in.)

Depth to Free Water in Pit: NA (in.)

Depth to Saturated Soil: NA (in.)

Wetland Hydrology Indicators:

Primary Indicators:
- ☐ Inundated
- ☐ Saturated in Upper 12 Inches
- ☐ Water Marks
- ☐ Drift Lines
- ☐ Sediment Deposits
- ☐ Drainage Patterns in Wetlands

Secondary Indicators (2 or more required):
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- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks:

SOILS

Map Unit Name (Series and Phase): MIXED ORIGIN FILL

Drainage Class: _____

Field Observations Confirm Mapped Type? ☐ Yes ☐ No

Taxonomy (Subgroup): _____

Profile Descriptions:

Depth (inches)	Horizon	Matrix Color (Munsell Moist)	Mottle Colors (Munsell Moist)	Mottle Abundance/ Size/Contrast	Texture, Concretions, Structure, etc,

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- ☐ Organic Streaking in Sandy Soils
- ☐ Listed on Local Hydric Soils List
- ☐ Listed on National Hydric Soils List
- ☐ Other (Explain in Remarks)

Remarks: IMPERVIOS SURFACE URBAN SETING

WETLAND DETERMINATION

Hydrophytic Vegetation Present? ☐ Yes ☒ No (Check)

Wetland Hydrology Present? ☐ Yes ☒ No

Hydric Soils Present? ☐ Yes ☒ No

(Check)

Is this Sampling Point Within a Wetland? ☐ Yes ☒ No

Remarks

Approved by HQUSACE 3/92

Forms version 1/02

DATA FORM
ROUTINE WETLAND DETERMINATION
(1987 COE Wetlands Delineation Manual)

Project/Site:	Tranvia de Carolina	Date:	Jan 2007
Applicant/Owner:	AFI, Muncipio Carolina	County:	Carolina
Investigator:	RiveraLugo,PJ	State:	Puerto Rico

Do Normal Circumstances exist on the site?	☒Yes	☐No	Community ID:	
Is the site significantly disturbed (Atypical Situation)?	☐Yes	☒No	Transect ID:	1
Is the area a potential Problem Area? (If needed, explain on reverse.)	☐Yes	☒No	Plot ID:	a

VEGETATION

Dominant Plant Species	Stratum	Indicator	Dominant Plant Species	Stratum	Indicator
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5. Roystonea borinquena	T	FAC	13.		
6. Bucidas buceras	T	FAC	14.		
7. Ixora coccinea	S	NI	15.		
8. Bothriochloa pertusa	H	NI	16.		

Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-).

Remarks:

HYDROLOGY

☐ Recorded Data (Describe in Remarks):
- ☐ Stream, Lake, or Tide Gauge
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Depth to Free Water in Pit: NA (in.)

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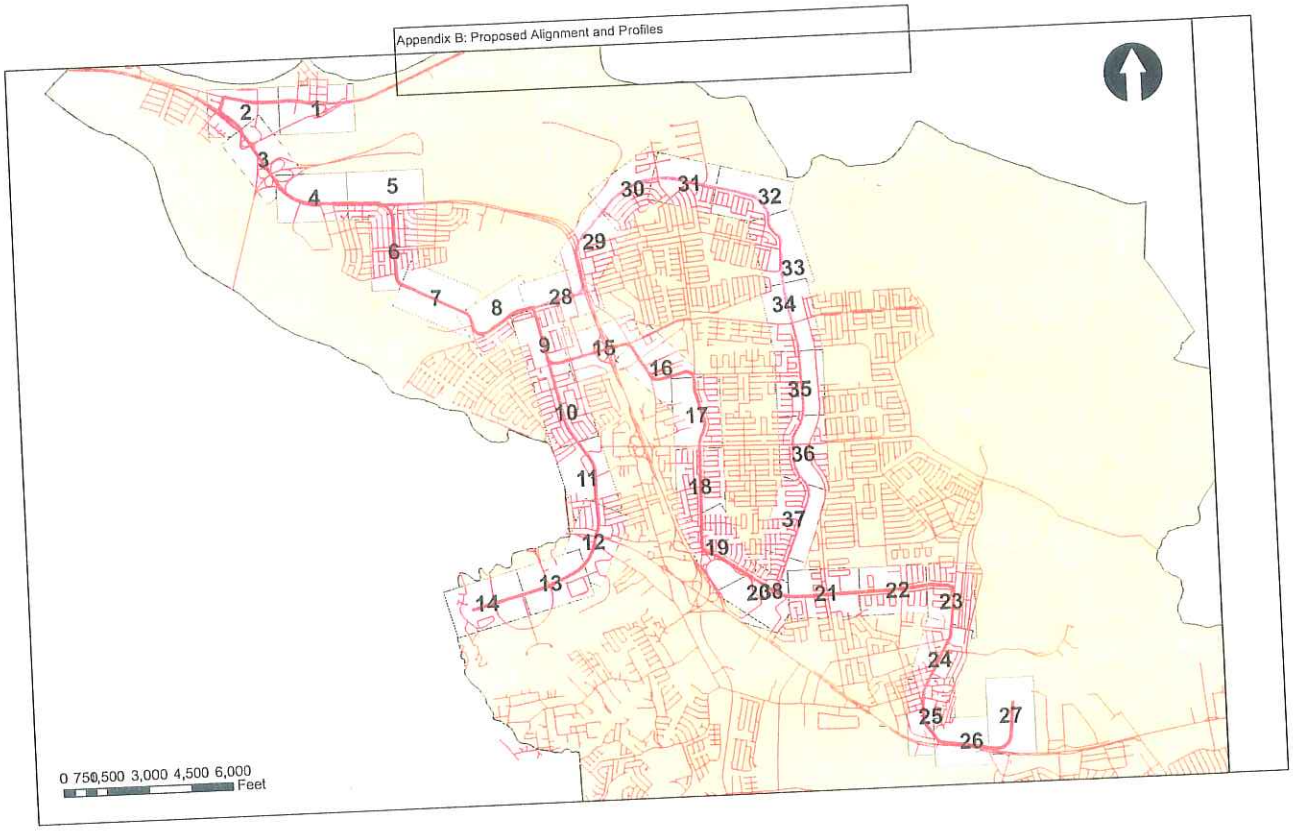
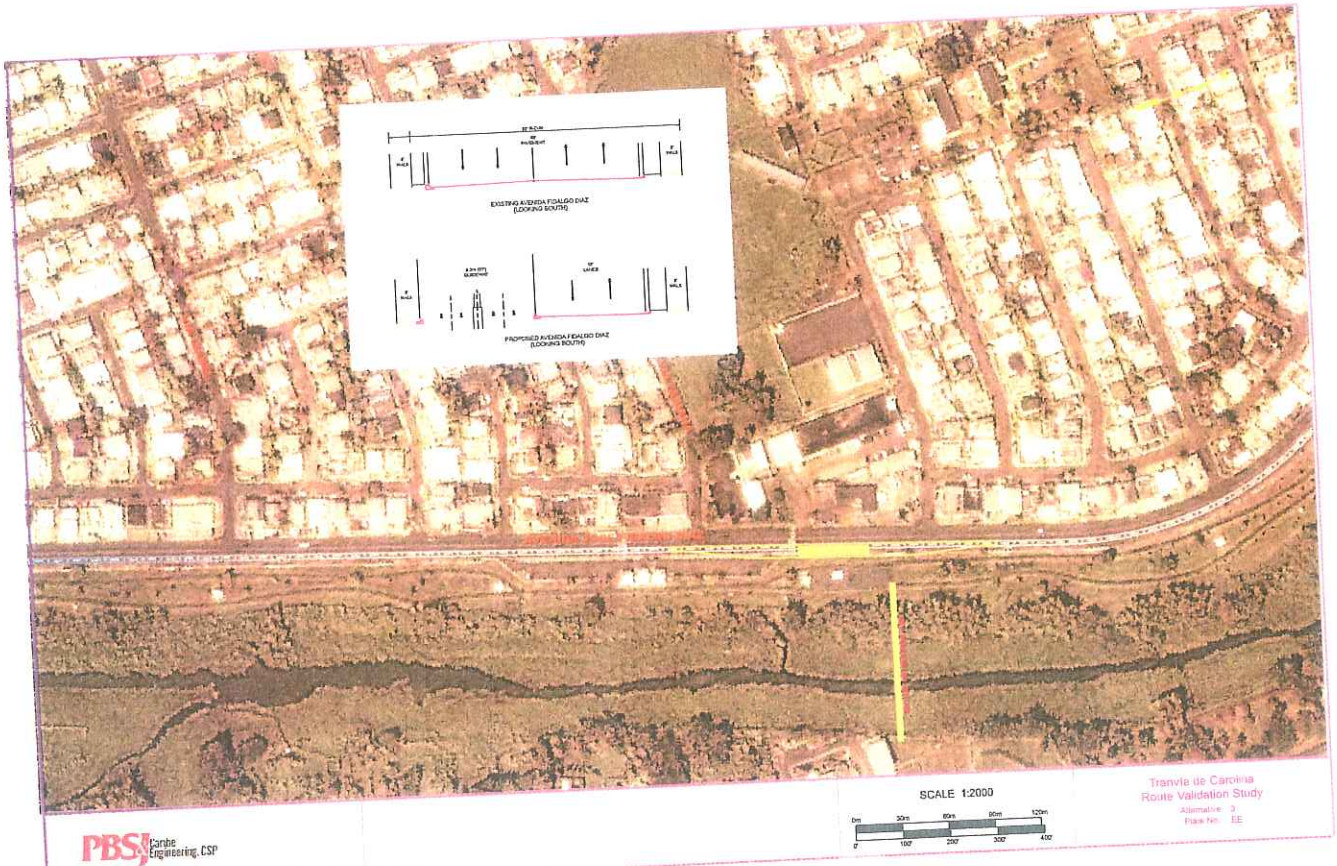
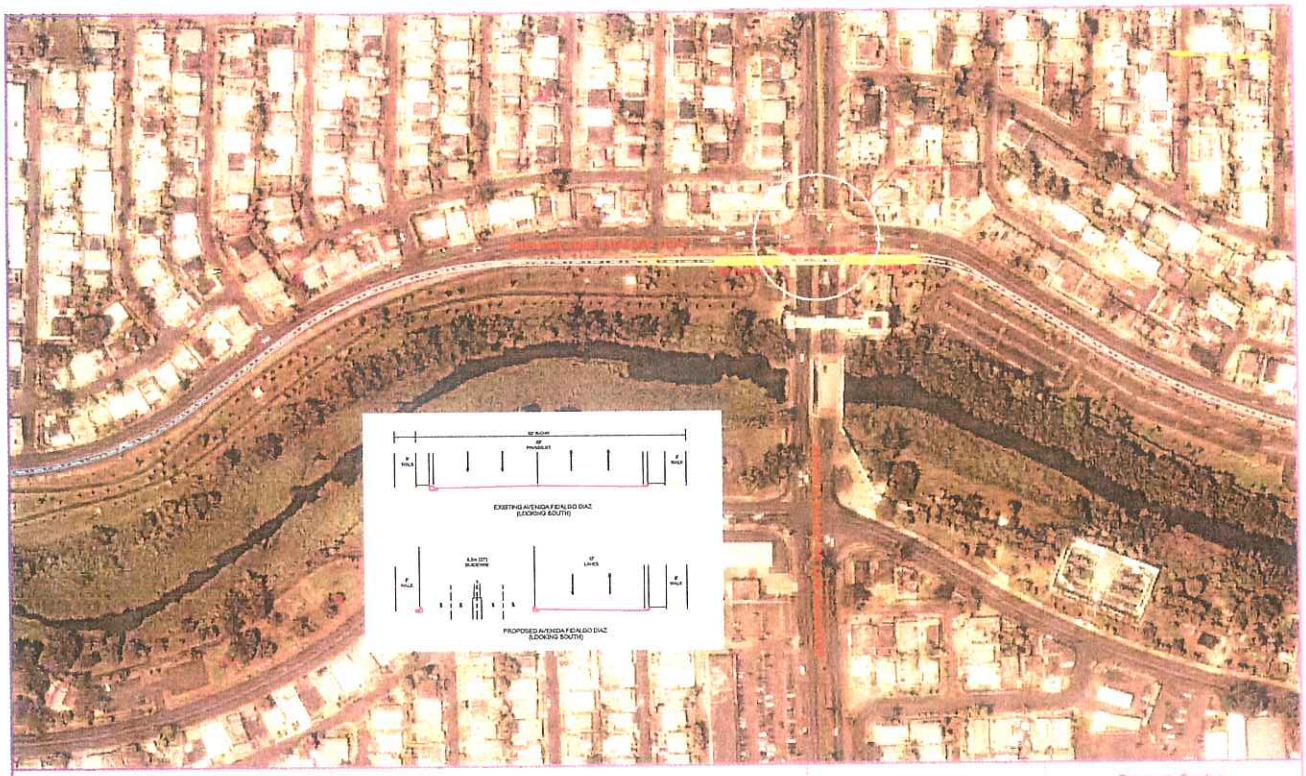
- ☐ Local Soil Survey Data
- ☐ FAC-Neutral Test
- ☐ Other (Explain in Remarks)

Remarks:

Appendix B: Proposed Alignment and Profiles







PBSJ Caribe Engineering, CSP

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Tranvia de Carolina
Route Validation Study
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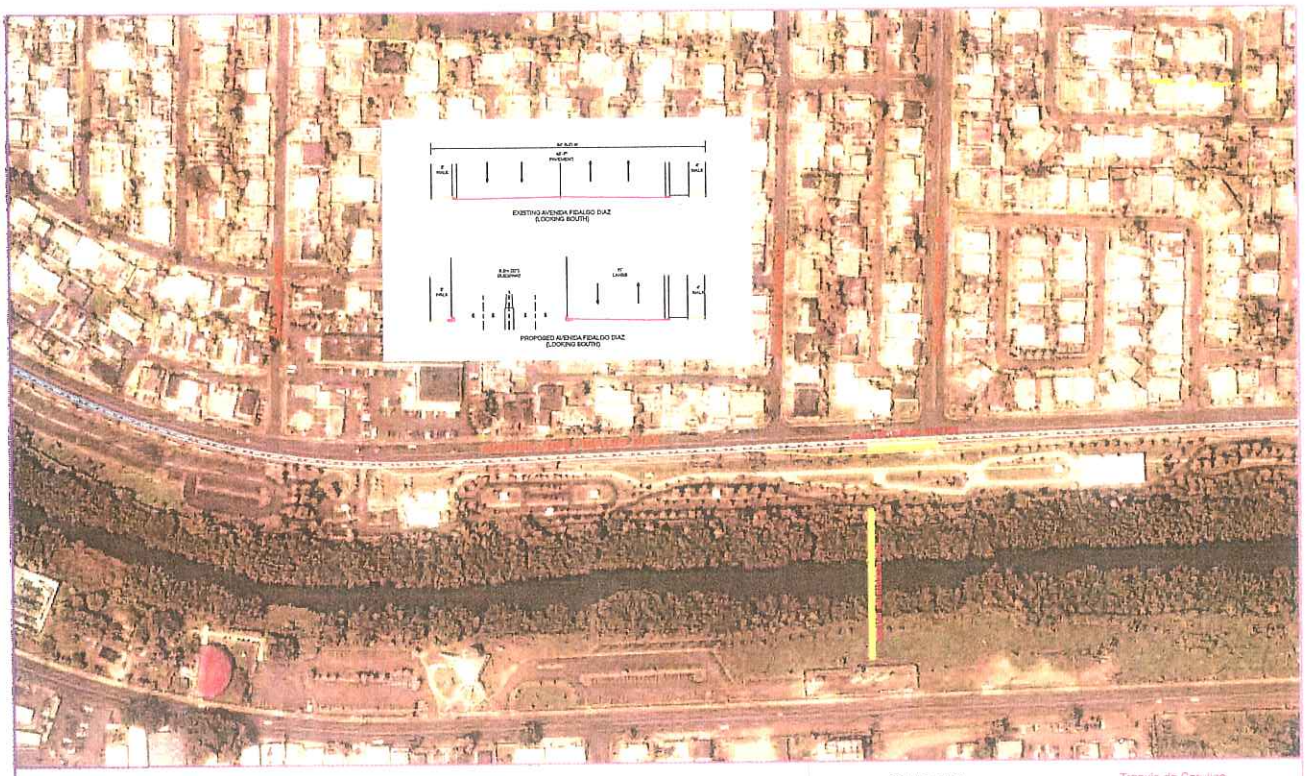

PBSJ Caribe Engineering, CSP

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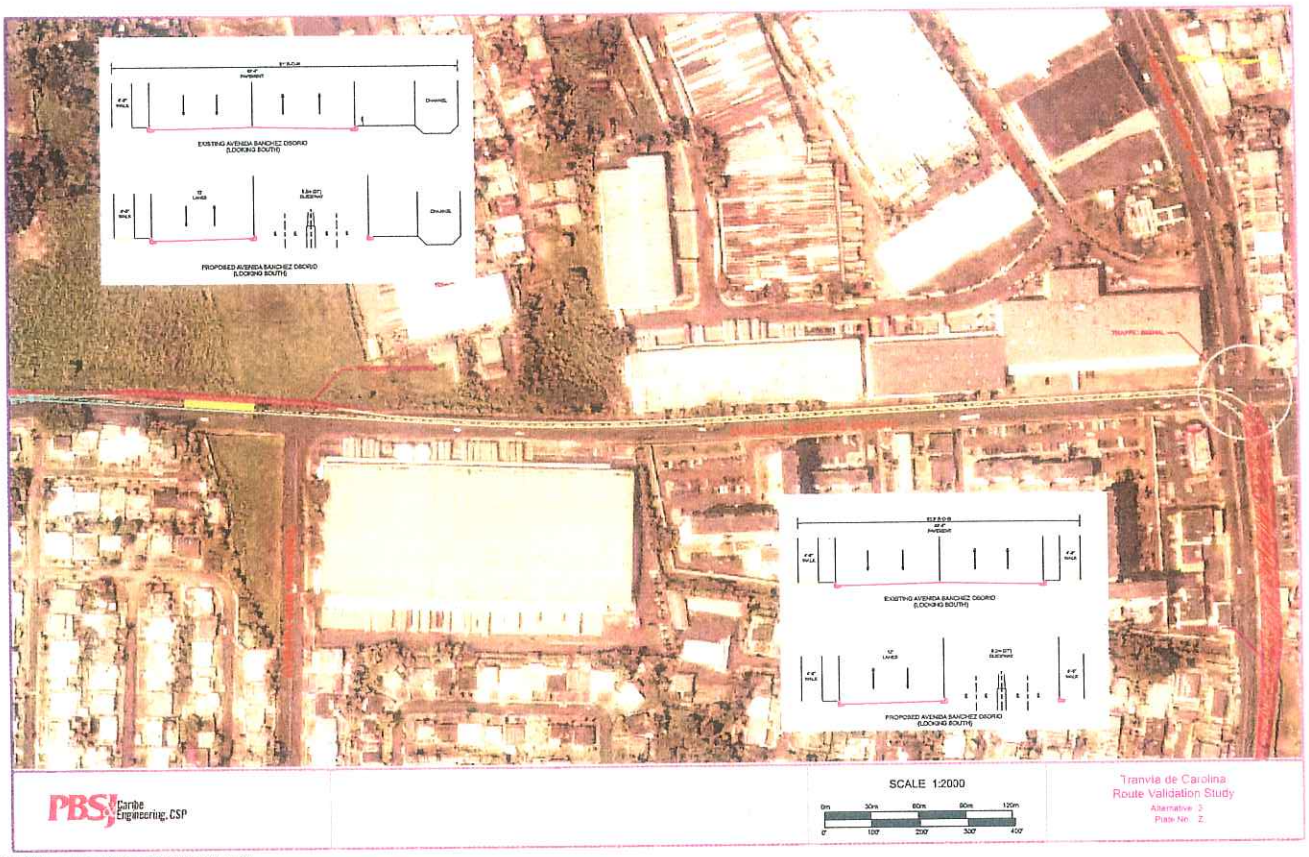

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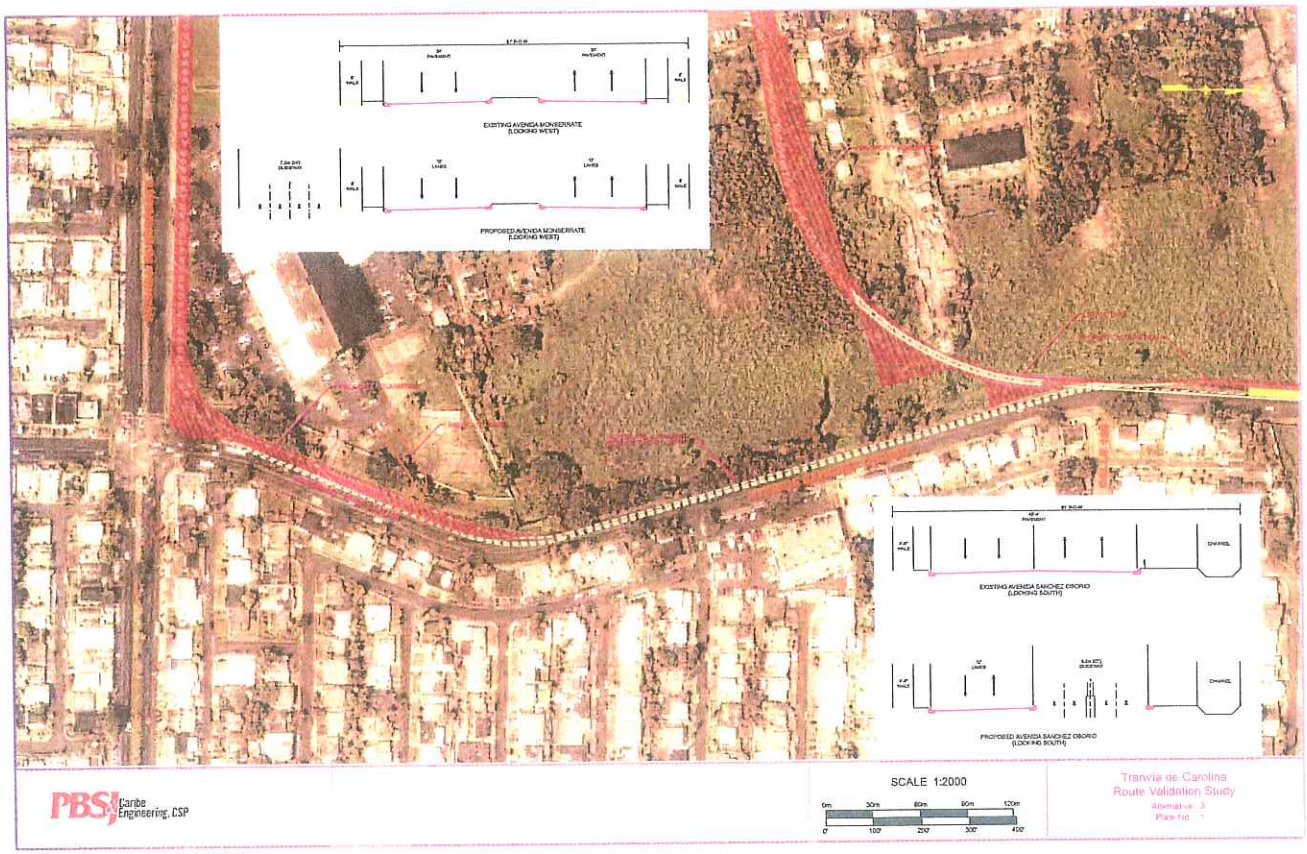

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PBSJ Caribe Engineering, CSP

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Tranvia de Carolina
Route Validation Study

Alternative 2
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PBSJ Caribe Engineering, CSP

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Tranvia de Carolina
Route Validation Study

Alternative 3
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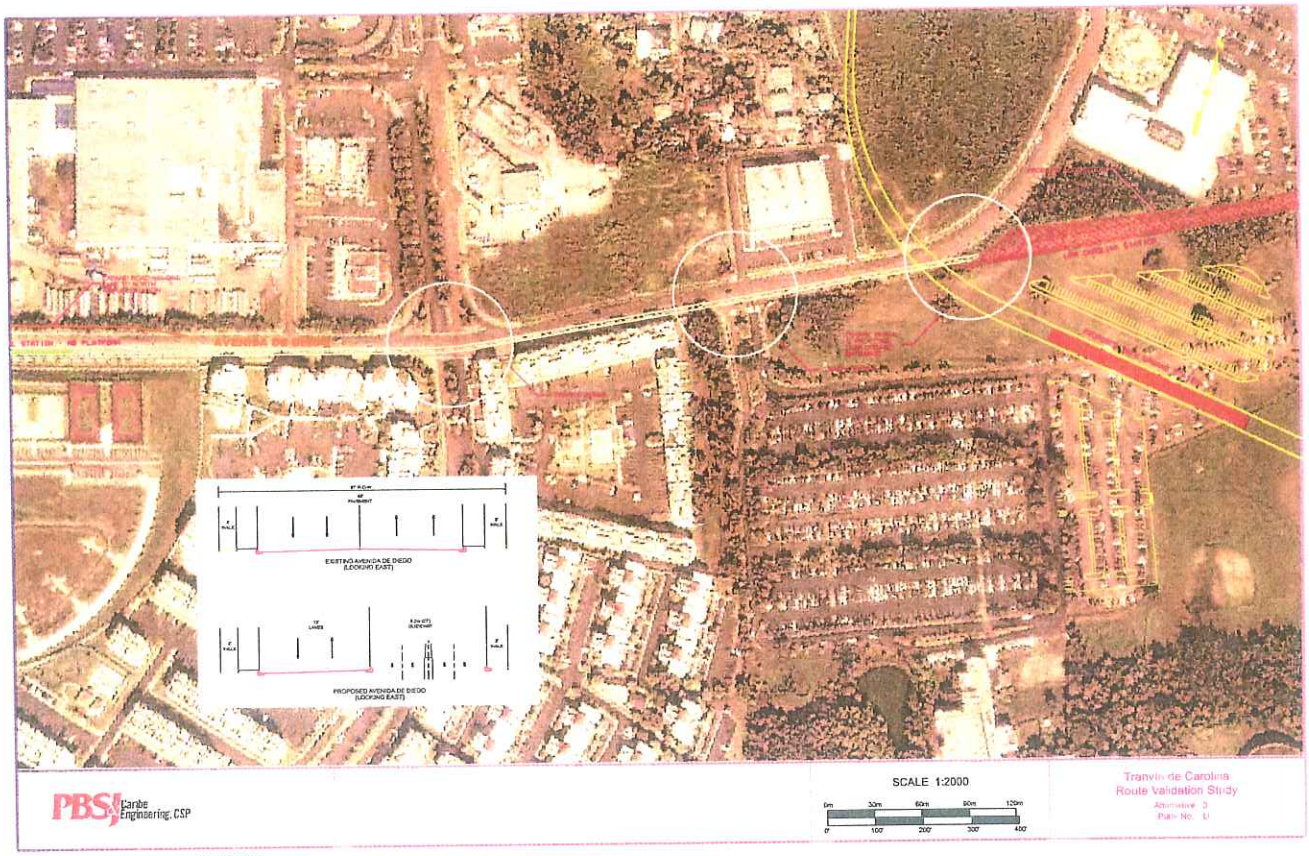

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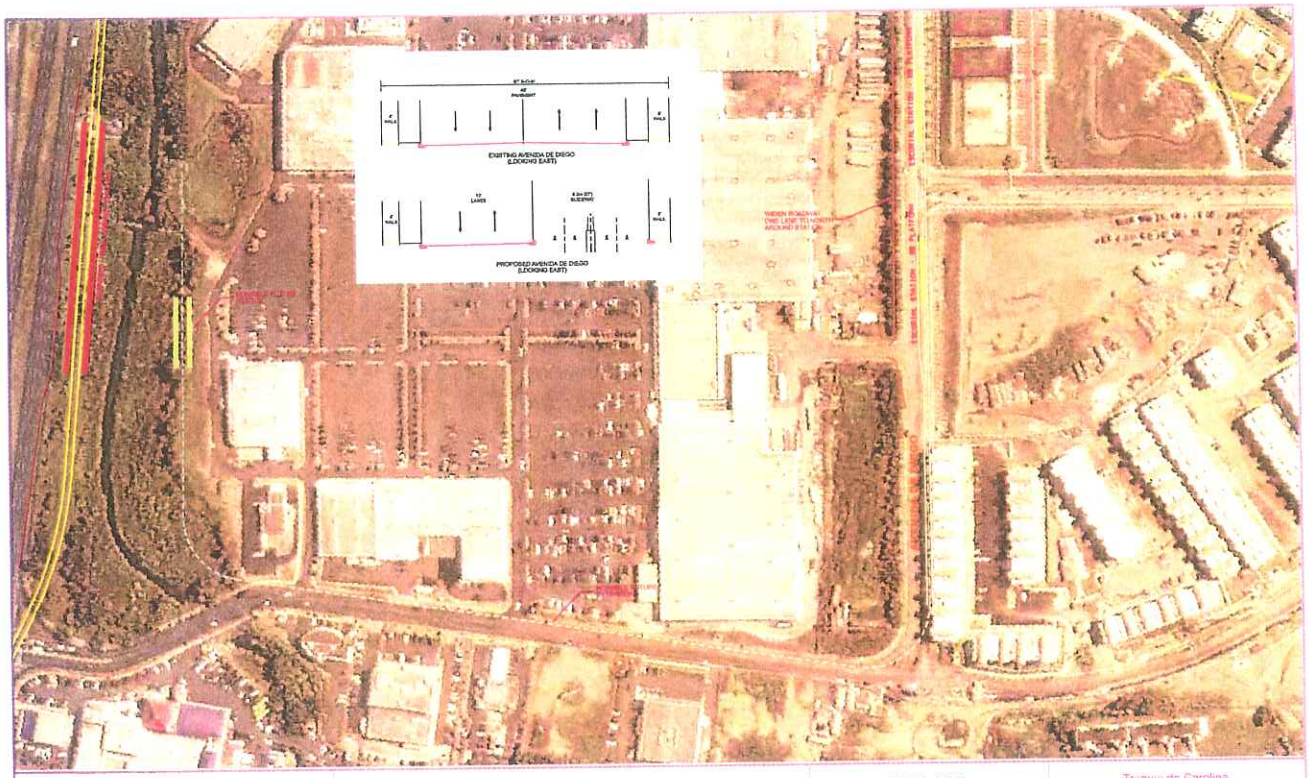

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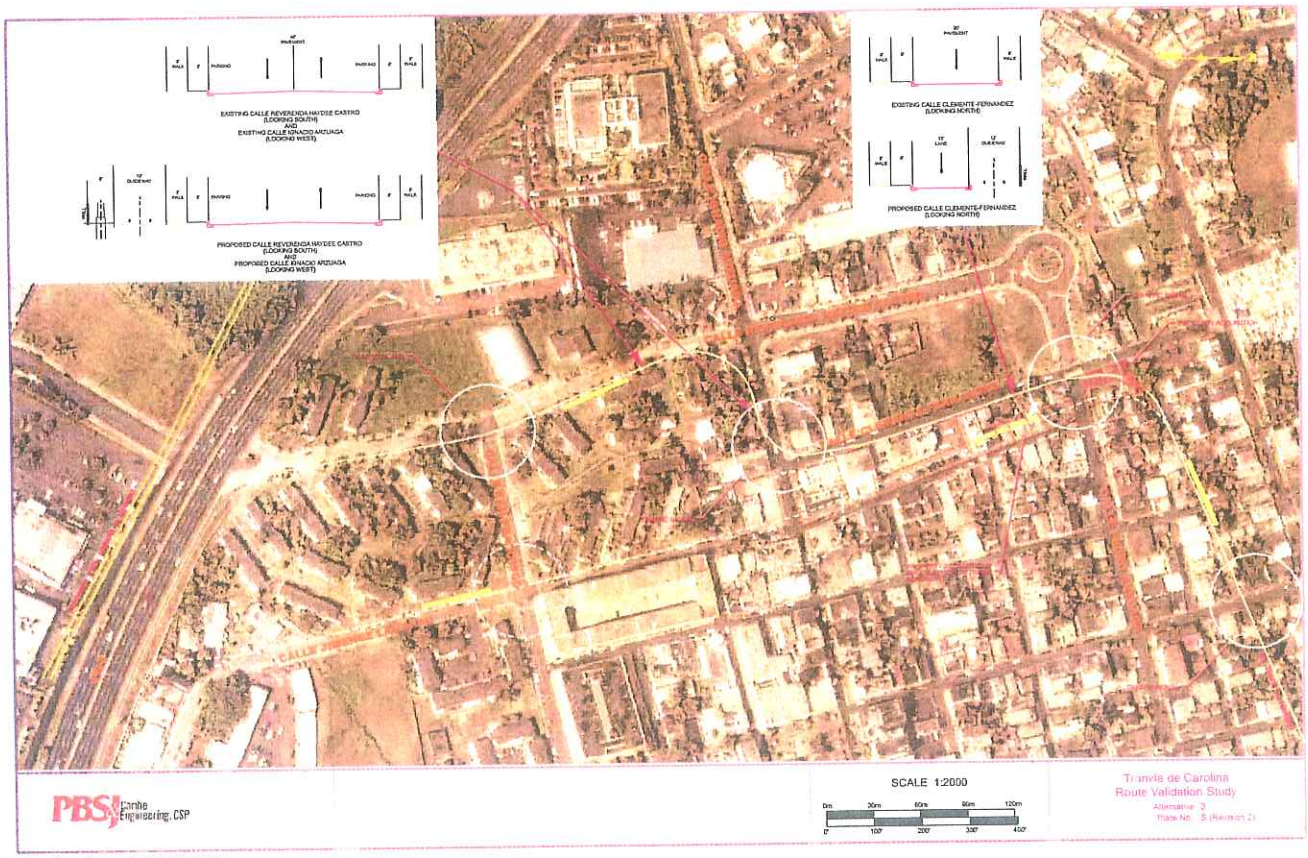

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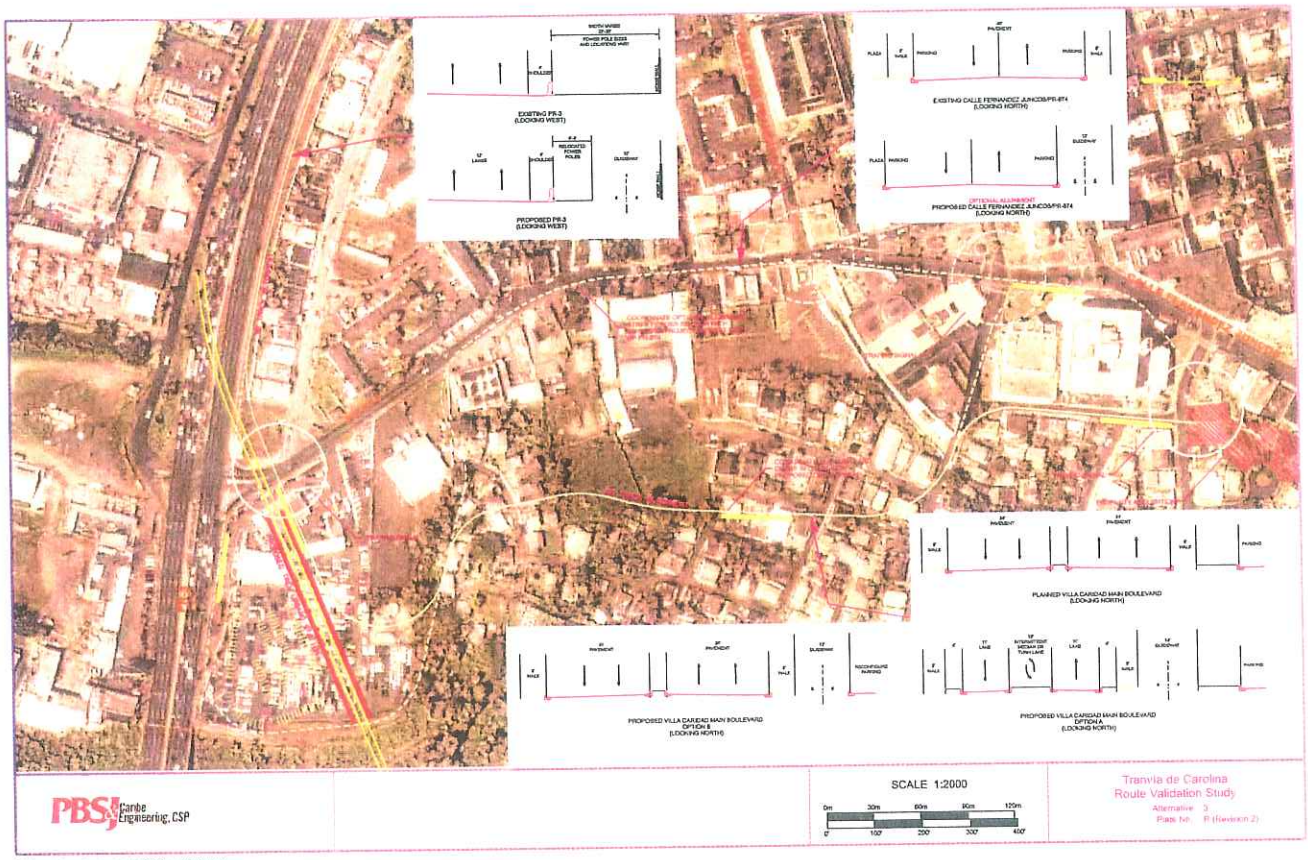

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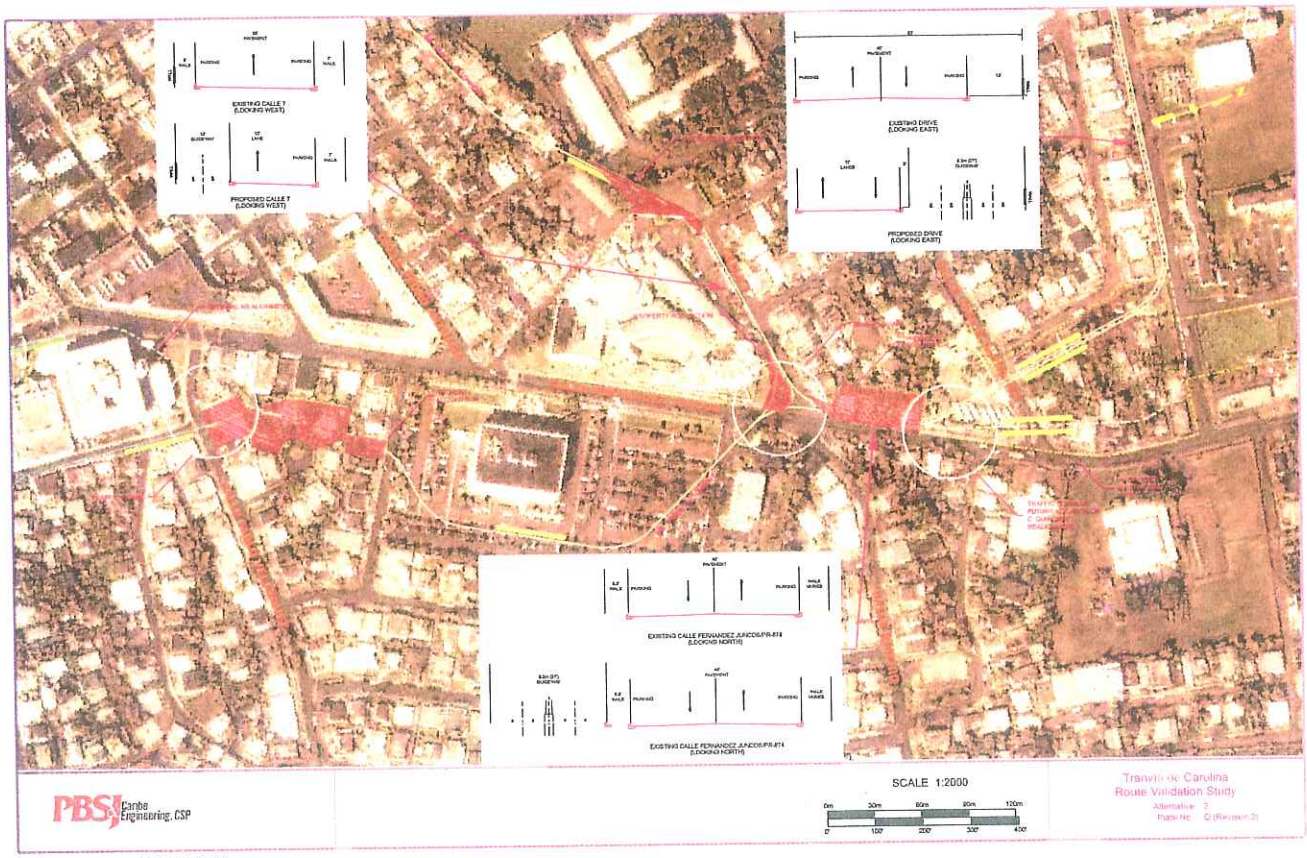

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