

SOILS

| | | | | | |
|--------------------------------------|--|-------------------|--|----------------------|--|
| Map Unit Name (Series and Phase): | | MIXED ORIGIN FILL | | Drainage Class: | _____ |
| Taxonomy (Subgroup): | | _____ | | Field Observations | _____ |
| | | | | Confirm Mapped Type? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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

Hydric Soil Indicators:

| | |
|--|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other (Explain in Remarks) |

Remarks:

WETLAND DETERMINATION

| | | |
|--|---|---|
| Hydrophytic Vegetation Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | (Check) |
| Wetland Hydrology Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Hydric Soils Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Is this Sampling Point Within a Wetland? | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

Remarks

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

| | |
|---|---------------------------|
| Project/Site: <u>Tranvia de Carolina</u> | Date: <u>Jan 2007</u> |
| Applicant/Owner: <u>AFI, Municipio Carolina</u> | County: <u>Carolina</u> |
| Investigator: <u>RiveraLugo, PJ</u> | State: <u>Puerto Rico</u> |
| Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Community ID: _____ |
| Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Transect ID: <u>4</u> |
| Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Plot ID: <u>a</u> |
| (If needed, explain on reverse.) | |

VEGETATION

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

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

Remarks: _____

HYDROLOGY

| | |
|---|--|
| <input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available | Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks) |
| Field Observations: Depth of Surface Water: _____ (in.) Depth to Free Water in Pit: _____ (in.) Depth to Saturated Soil: _____ (in.) | |
| Remarks: _____ | |

SOILS

| | | | | | |
|--------------------------------------|--|-------------------|--|----------------------|--|
| Map Unit Name (Series and Phase): | | MIXED ORIGIN FILL | | Drainage Class: | _____ |
| Taxonomy (Subgroup): | | _____ | | Field Observations | _____ |
| | | | | Confirm Mapped Type? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

| Depth (inches) | Horizon | Matrix Color (Munsell Moist) | Mottle Colors (Munsell Moist) | Mottle Abundance/ Size/Contrast | Texture, Concretions, Structure, etc, |
|-------------------|---------|---------------------------------|----------------------------------|------------------------------------|--|
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Hydric Soil Indicators:

| | |
|--|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other (Explain in Remarks) |

Remarks: IMPERVIOUS SURFACES URBAN SETTING

WETLAND DETERMINATION

| | | |
|--|---|---|
| Hydrophytic Vegetation Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | (Check) |
| Wetland Hydrology Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Hydric Soils Present? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| Is this Sampling Point Within a Wetland? | | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Remarks | | |

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

| | |
|---|---------------------------|
| Project/Site: <u>Tranvia de Carolina</u> | Date: <u>Jan 2007</u> |
| Applicant/Owner: <u>AFI, Municipio Carolina</u> | County: <u>Carolina</u> |
| Investigator: <u>RiveraLugo, PJ</u> | State: <u>Puerto Rico</u> |
| Do Normal Circumstances exist on the site? <input type="checkbox"/> Yes <input type="checkbox"/> No | Community ID: _____ |
| Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Transect ID: <u>3</u> |
| Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Plot ID: <u>c</u> |
| (If needed, explain on reverse.) | |

VEGETATION

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

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

Remarks: _____

HYDROLOGY

| | |
|---|--|
| <input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available | Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks) |
| Field Observations: Depth of Surface Water: <u>NA</u> (in.) Depth to Free Water in Pit: <u>NA</u> (in.) Depth to Saturated Soil: <u>NA</u> (in.) | |
| Remarks: _____ | |

SOILS

| | | | | | |
|--------------------------------------|--|-------------------|--|----------------------|--|
| Map Unit Name (Series and Phase): | | MIXED ORIGIN FILL | | Drainage Class: | _____ |
| Taxonomy (Subgroup): | | _____ | | Field Observations | _____ |
| | | | | Confirm Mapped Type? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

| Depth (inches) | Horizon | Matrix Color (Munsell Moist) | Mottle Colors (Munsell Moist) | Mottle Abundance/ Size/Contrast | Texture, Concretions, Structure, etc, |
|-------------------|---------|---------------------------------|----------------------------------|------------------------------------|--|
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Hydric Soil Indicators:

| | |
|--|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other (Explain in Remarks) |

Remarks: IMPERVIOUS SURFACES URBAN SETTING

WETLAND DETERMINATION

| | | | | | |
|---------------------------------|------------------------------|--|---------|--|---|
| Hydrophytic Vegetation Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | (Check) | | |
| Wetland Hydrology Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | | |
| Hydric Soils Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | | |
| | | | | Is this Sampling Point Within a Wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

Remarks

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

| | |
|---|---------------------------|
| Project/Site: <u>Tranvia de Carolina</u> | Date: <u>Jan 2007</u> |
| Applicant/Owner: <u>AFI, Municipio Carolina</u> | County: <u>Carolina</u> |
| Investigator: <u>RiveraLugo,PJ</u> | State: <u>Puerto Rico</u> |
| Do Normal Circumstances exist on the site? <input type="checkbox"/> Yes <input type="checkbox"/> No | Community ID: _____ |
| Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Transect ID: <u>3</u> |
| Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Plot ID: <u>b</u> |
| (If needed, explain on reverse.) | |

VEGETATION

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

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

Remarks: _____

HYDROLOGY

| | |
|---|--|
| <input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available | Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks) |
| Field Observations: Depth of Surface Water: <u>NA</u> (in.) Depth to Free Water in Pit: <u>NA</u> (in.) Depth to Saturated Soil: <u>NA</u> (in.) | |
| Remarks: _____ | |

SOILS

| | | | | | |
|--------------------------------------|--|-------------------|--|----------------------|--|
| Map Unit Name (Series and Phase): | | MIXED ORIGIN FILL | | Drainage Class: | _____ |
| Taxonomy (Subgroup): | | _____ | | Field Observations | _____ |
| | | | | Confirm Mapped Type? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

| Profile Descriptions: Depth (inches) | Horizon | Matrix Color (Munsell Moist) | Mottle Colors (Munsell Moist) | Mottle Abundance/ Size/Contrast | Texture, Concretions, Structure, etc, |
|--|---------|---------------------------------|----------------------------------|------------------------------------|--|
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |

Hydric Soil Indicators:

| | |
|--|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other (Explain in Remarks) |

Remarks: IMPERVIOUS SURFACES URBAN SETTING

WETLAND DETERMINATION

| | | | | | |
|---------------------------------|------------------------------|--|--|------------------------------|--|
| Hydrophytic Vegetation Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | (Check) | | |
| Wetland Hydrology Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | | |
| Hydric Soils Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | | |
| | | | Is this Sampling Point Within a Wetland? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |

Remarks

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

| | |
|---|---------------------------|
| Project/Site: <u>Tranvia de Carolina</u> | Date: <u>Jan 2007</u> |
| Applicant/Owner: <u>AFI, Municipio Carolina</u> | County: <u>Carolina</u> |
| Investigator: <u>RiveraLugo,PJ</u> | State: <u>Puerto Rico</u> |
| Do Normal Circumstances exist on the site? <input type="checkbox"/> Yes <input type="checkbox"/> No | Community ID: _____ |
| Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Transect ID: <u>3</u> |
| Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Plot ID: <u>a</u> |
| (If needed, explain on reverse.) | |

VEGETATION

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

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

Remarks: _____

HYDROLOGY

| | |
|---|--|
| <input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available | Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks) |
| Field Observations: Depth of Surface Water: <u>NA</u> (in.) Depth to Free Water in Pit: <u>NA</u> (in.) Depth to Saturated Soil: <u>NA</u> (in.) | |
| Remarks: _____ | |

SOILS

| | | | | | |
|--------------------------------------|--|-------------------|--|----------------------|--|
| Map Unit Name (Series and Phase): | | MIXED ORIGIN FILL | | Drainage Class: | _____ |
| Taxonomy (Subgroup): | | _____ | | Field Observations | _____ |
| | | | | Confirm Mapped Type? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

| 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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Hydric Soil Indicators:

| | |
|--|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other (Explain in Remarks) |

Remarks: IMPERVIOUS SURFACE URBAN SETTING

WETLAND DETERMINATION

| | | | | | |
|---------------------------------|------------------------------|--|---------|--|---|
| Hydrophytic Vegetation Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | (Check) | | |
| Wetland Hydrology Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | | |
| Hydric Soils Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | | |
| | | | | Is this Sampling Point Within a Wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Remarks | | | | | |

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

| | |
|---|---------------------------|
| Project/Site: <u>Tranvia de Carolina</u> | Date: <u>Jan 2007</u> |
| Applicant/Owner: <u>AFI, Municipio Carolina</u> | County: <u>Carolina</u> |
| Investigator: <u>RiveraLugo, PJ</u> | State: <u>Puerto Rico</u> |
| Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Community ID: _____ |
| Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Transect ID: <u>2</u> |
| Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Plot ID: <u>c</u> |
| (If needed, explain on reverse.) | |

VEGETATION

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

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

Remarks: _____

HYDROLOGY

| | |
|---|--|
| <input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available | Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks) |
| Field Observations: Depth of Surface Water: <u>NA</u> (in.) Depth to Free Water in Pit: <u>NA</u> (in.) Depth to Saturated Soil: <u>NA</u> (in.) | |
| Remarks: _____ | |

SOILS

| | | | | | |
|--------------------------------------|--|-------------------|--|----------------------|--|
| Map Unit Name (Series and Phase): | | MIXED ORIGIN FILL | | Drainage Class: | _____ |
| Taxonomy (Subgroup): | | _____ | | Field Observations | _____ |
| | | | | Confirm Mapped Type? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

| Depth (inches) | Horizon | Matrix Color (Munsell Moist) | Mottle Colors (Munsell Moist) | Mottle Abundance/ Size/Contrast | Texture, Concretions, Structure, etc, |
|-------------------|---------|---------------------------------|----------------------------------|------------------------------------|--|
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Hydric Soil Indicators:

| | |
|--|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other (Explain in Remarks) |

Remarks: IMPERVIOUS SURFACE URBAN SETTING

WETLAND DETERMINATION

| | | | | | |
|---------------------------------|------------------------------|--|--|------------------------------|--|
| Hydrophytic Vegetation Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | (Check) | | |
| Wetland Hydrology Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | | |
| Hydric Soils Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | | |
| | | | Is this Sampling Point Within a Wetland? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Remarks | | | | | |

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

| | |
|---|---------------------------|
| Project/Site: <u>Tranvia de Carolina</u> | Date: <u>Jan 2007</u> |
| Applicant/Owner: <u>AFI, Municipio Carolina</u> | County: <u>Carolina</u> |
| Investigator: <u>RiveraLugo,PJ</u> | State: <u>Puerto Rico</u> |
| Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Community ID: _____ |
| Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Transect ID: <u>2</u> |
| Is the area a potential Problem Area? (If needed, explain on reverse.) <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Plot ID: <u>b</u> |

VEGETATION

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

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

Remarks: _____

HYDROLOGY

| | |
|---|--|
| <input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available | Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks) |
| Field Observations: Depth of Surface Water: <u>NA</u> (in.) Depth to Free Water in Pit: <u>NA</u> (in.) Depth to Saturated Soil: <u>NA</u> (in.) | |
| Remarks: _____ | |

SOILS

| | | | | | |
|--------------------------------------|--|-------------------|--|----------------------|--|
| Map Unit Name (Series and Phase): | | MIXED ORIGIN FILL | | Drainage Class: | _____ |
| Taxonomy (Subgroup): | | _____ | | Field Observations | _____ |
| | | | | Confirm Mapped Type? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

| 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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Hydric Soil Indicators:

| | |
|--|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other (Explain in Remarks) |

Remarks: IMPERVIOUS SURFACE URBAN SETTING

WETLAND DETERMINATION

| | | | | | |
|---------------------------------|------------------------------|--|---------|--|---|
| Hydrophytic Vegetation Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | (Check) | | |
| Wetland Hydrology Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | | |
| Hydric Soils Present? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No | | | |
| | | | | Is this Sampling Point Within a Wetland? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Remarks | | | | | |

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

| | |
|---|---------------------------|
| Project/Site: <u>Tranvia de Carolina</u> | Date: <u>Jan 2007</u> |
| Applicant/Owner: <u>AFI, Municipio Carolina</u> | County: <u>Carolina</u> |
| Investigator: <u>RiveraLugo, PJ</u> | State: <u>Puerto Rico</u> |
| Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Community ID: _____ |
| Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Transect ID: <u>2</u> |
| Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Plot ID: <u>a</u> |
| (If needed, explain on reverse.) | |

VEGETATION

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

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

Remarks: _____

HYDROLOGY

| | |
|---|--|
| <input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available | Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks) |
| Field Observations: Depth of Surface Water: <u>NA</u> (in.) Depth to Free Water in Pit: <u>NA</u> (in.) Depth to Saturated Soil: <u>NA</u> (in.) | |
| Remarks: _____ | |

SOILS

| | | | | | |
|--------------------------------------|--|-------------------|--|----------------------|--|
| Map Unit Name (Series and Phase): | | MIXED ORIGIN FILL | | Drainage Class: | _____ |
| Taxonomy (Subgroup): | | _____ | | Field Observations | _____ |
| | | | | Confirm Mapped Type? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

| Profile Descriptions: | | | | | |
|-----------------------|---------|---------------------------------|----------------------------------|------------------------------------|--|
| Depth (inches) | Horizon | Matrix Color (Munsell Moist) | Mottle Colors (Munsell Moist) | Mottle Abundance/ Size/Contrast | Texture, Concretions, Structure, etc, |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |
| _____ | _____ | _____ | _____ | _____ | _____ |

Hydric Soil Indicators:

| | |
|--|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other (Explain in Remarks) |

Remarks: IMPERVIOUS SURFACE URBAN SETING

WETLAND DETERMINATION

| | |
|--|---|
| Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Check) Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | (Check) Is this Sampling Point Within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Remarks | |

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

| | |
|---|---------------------------|
| Project/Site: <u>Tranvia de Carolina</u> | Date: <u>Jan 2007</u> |
| Applicant/Owner: <u>AFI, Municipio Carolina</u> | County: <u>Carolina</u> |
| Investigator: <u>RiveraLugo,PJ</u> | State: <u>Puerto Rico</u> |
| Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Community ID: _____ |
| Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Transect ID: <u>1</u> |
| Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Plot ID: <u>c</u> |
| (If needed, explain on reverse.) | |

VEGETATION

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

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

Remarks: _____

HYDROLOGY

| | |
|---|--|
| <input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available | Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks) |
| Field Observations: Depth of Surface Water: <u>NA</u> (in.) Depth to Free Water in Pit: <u>NA</u> (in.) Depth to Saturated Soil: <u>NA</u> (in.) | |
| Remarks: _____ | |

SOILS

| | | | | | |
|--------------------------------------|--|-------------------|--|----------------------|--|
| Map Unit Name (Series and Phase): | | MIXED ORIGIN FILL | | Drainage Class: | _____ |
| Taxonomy (Subgroup): | | _____ | | Field Observations | _____ |
| | | | | Confirm Mapped Type? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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

Hydric Soil Indicators:

| | |
|--|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other (Explain in Remarks) |

Remarks: IMPERVIOUS SURFACE URBAN SETING

WETLAND DETERMINATION

| | |
|--|---|
| Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Check) Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | _____ (Check) Is this Sampling Point Within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Remarks | |

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

| | |
|---|---------------------------|
| Project/Site: <u>Tranvia de Carolina</u> | Date: <u>Jan 2007</u> |
| Applicant/Owner: <u>AFI, Municipio Carolina</u> | County: <u>Carolina</u> |
| Investigator: <u>RiveraLugo,PJ</u> | State: <u>Puerto Rico</u> |
| Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Community ID: _____ |
| Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Transect ID: <u>1</u> |
| Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Plot ID: <u>b</u> |
| (If needed, explain on reverse.) | |

VEGETATION

| Dominant Plant Species | Stratum | Indicator | Dominant Plant Species | Stratum | Indicator |
|---|----------|-------------|------------------------|---------|-----------|
| 1. <u>Swietenia mahagony</u> | <u>T</u> | <u>NI</u> | 9. _____ | _____ | _____ |
| 2. <u>Pithecellobium dulce</u> | <u>T</u> | <u>NI</u> | 10. _____ | _____ | _____ |
| 3. <u>Swietenia macrophylla</u> | <u>T</u> | <u>NI</u> | 11. _____ | _____ | _____ |
| 4. <u>Cocos nucifera</u> | <u>T</u> | <u>FACU</u> | 12. _____ | _____ | _____ |
| 5. <u>Roystonea borinquena</u> | <u>T</u> | <u>FAC</u> | 13. _____ | _____ | _____ |
| 6. <u>Bucidas buceras</u> | <u>T</u> | <u>FAC</u> | 14. _____ | _____ | _____ |
| 7. <u>Ixora coccinea</u> | <u>S</u> | <u>NI</u> | 15. _____ | _____ | _____ |
| 8. <u>Bothriochloa pertusa</u> | <u>H</u> | <u>NI</u> | 16. _____ | _____ | _____ |
| Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-). | | | | | |
| Remarks: | | | | | |

HYDROLOGY

| | |
|---|--|
| <input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available | Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks) |
| Field Observations: Depth of Surface Water: <u>NA</u> (in.) Depth to Free Water in Pit: <u>NA</u> (in.) Depth to Saturated Soil: <u>NA</u> (in.) | |
| Remarks: | |

SOILS

| | | | | | |
|--------------------------------------|--|-------------------|--|----------------------|--|
| Map Unit Name (Series and Phase): | | MIXED ORIGIN FILL | | Drainage Class: | _____ |
| Taxonomy (Subgroup): | | _____ | | Field Observations | _____ |
| | | | | Confirm Mapped Type? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

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

Hydric Soil Indicators:

| | |
|--|---|
| <input type="checkbox"/> Histosol | <input type="checkbox"/> Concretions |
| <input type="checkbox"/> Histic Epipedon | <input type="checkbox"/> High Organic Content in Surface Layer in Sandy Soils |
| <input type="checkbox"/> Sulfidic Odor | <input type="checkbox"/> Organic Streaking in Sandy Soils |
| <input type="checkbox"/> Aquic Moisture Regime | <input type="checkbox"/> Listed on Local Hydric Soils List |
| <input type="checkbox"/> Reducing Conditions | <input type="checkbox"/> Listed on National Hydric Soils List |
| <input type="checkbox"/> Gleyed or Low-Chroma Colors | <input type="checkbox"/> Other (Explain in Remarks) |

Remarks: IMPERVIOS SURFACE URBAN SETING

WETLAND DETERMINATION

| | |
|---|---|
| Hydrophytic Vegetation Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Check) Wetland Hydrology Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Hydric Soils Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | (Check) Is this Sampling Point Within a Wetland? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| Remarks | |

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

| | |
|---|---------------------------|
| Project/Site: <u>Tranvia de Carolina</u> | Date: <u>Jan 2007</u> |
| Applicant/Owner: <u>AFI, Municipio Carolina</u> | County: <u>Carolina</u> |
| Investigator: <u>RiveraLugo, PJ</u> | State: <u>Puerto Rico</u> |
| Do Normal Circumstances exist on the site? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Community ID: _____ |
| Is the site significantly disturbed (Atypical Situation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Transect ID: <u>1</u> |
| Is the area a potential Problem Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | Plot ID: <u>a</u> |
| (If needed, explain on reverse.) | |

VEGETATION

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

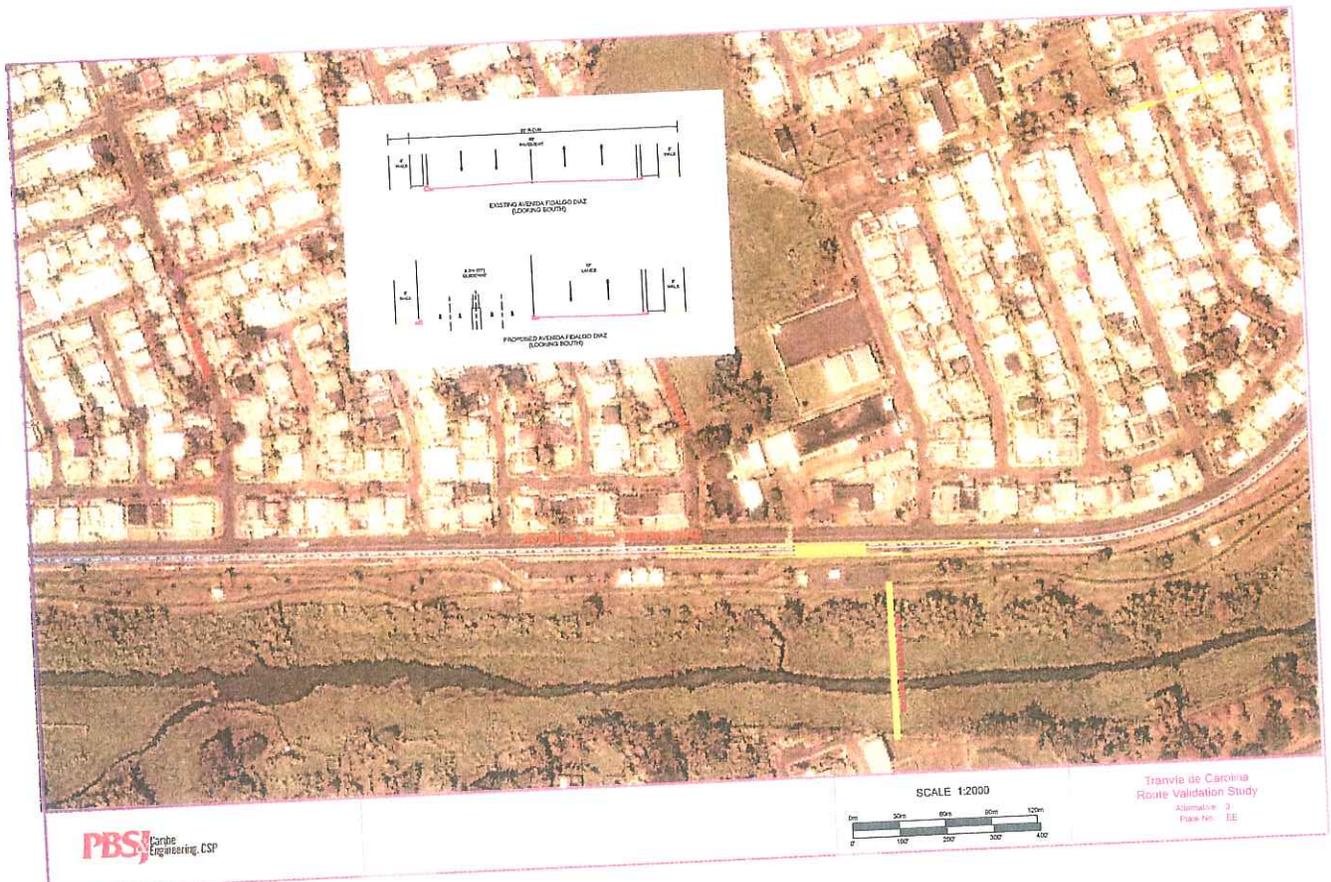
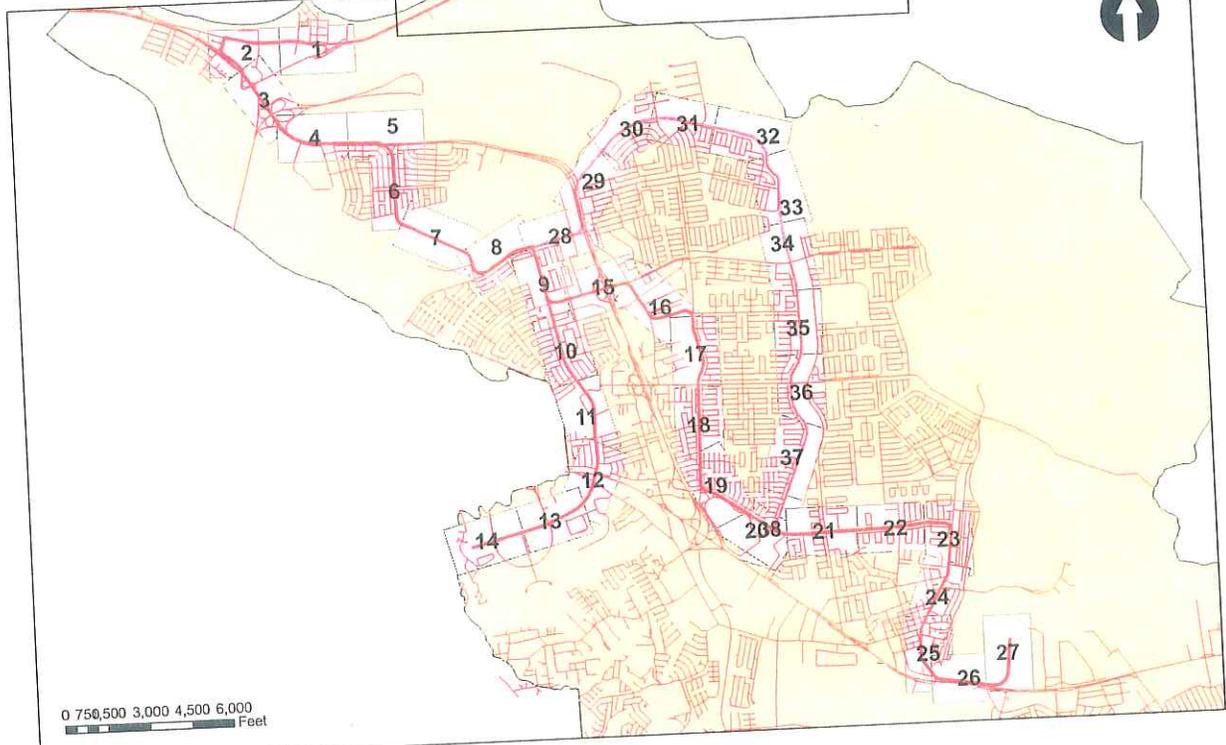
Percent of Dominant Species that are OBL, FACW or FAC (excluding FAC-): _____

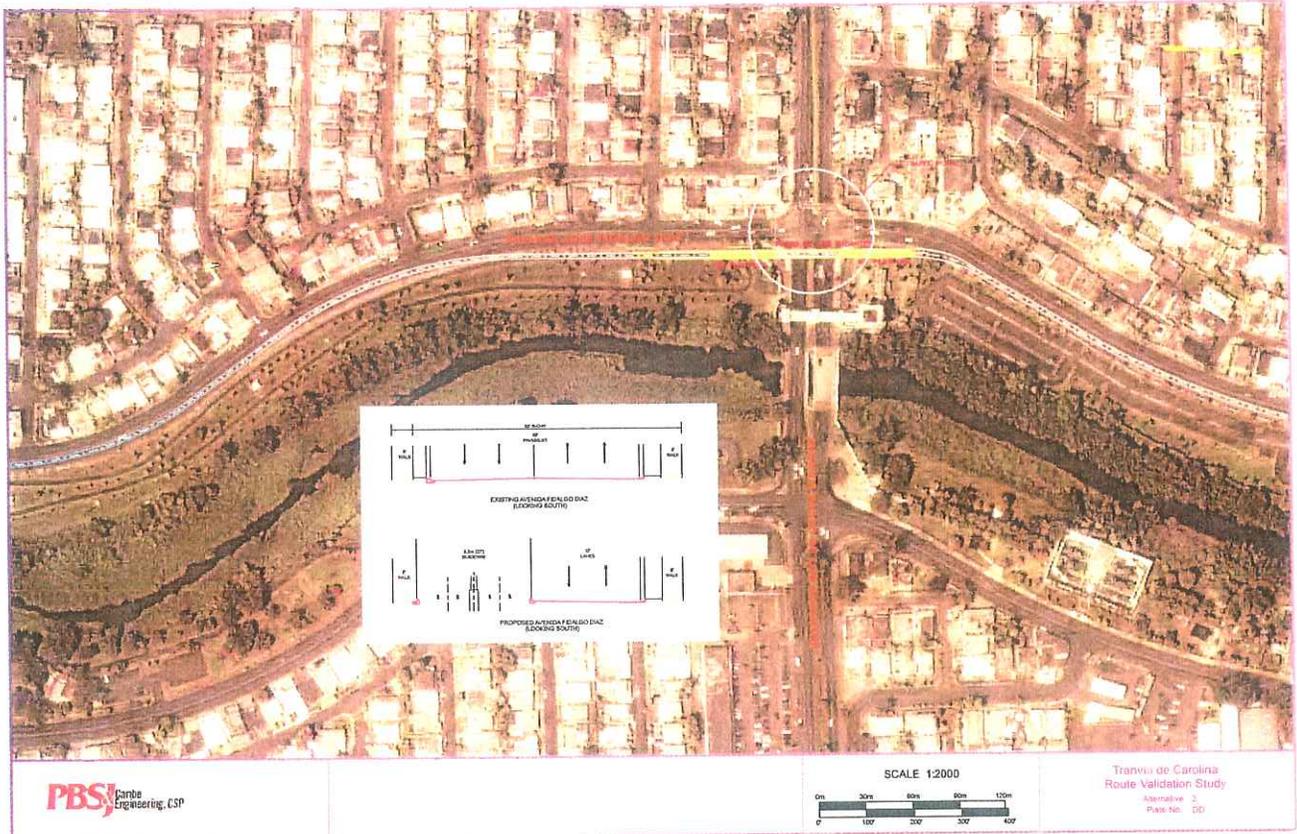
Remarks: _____

HYDROLOGY

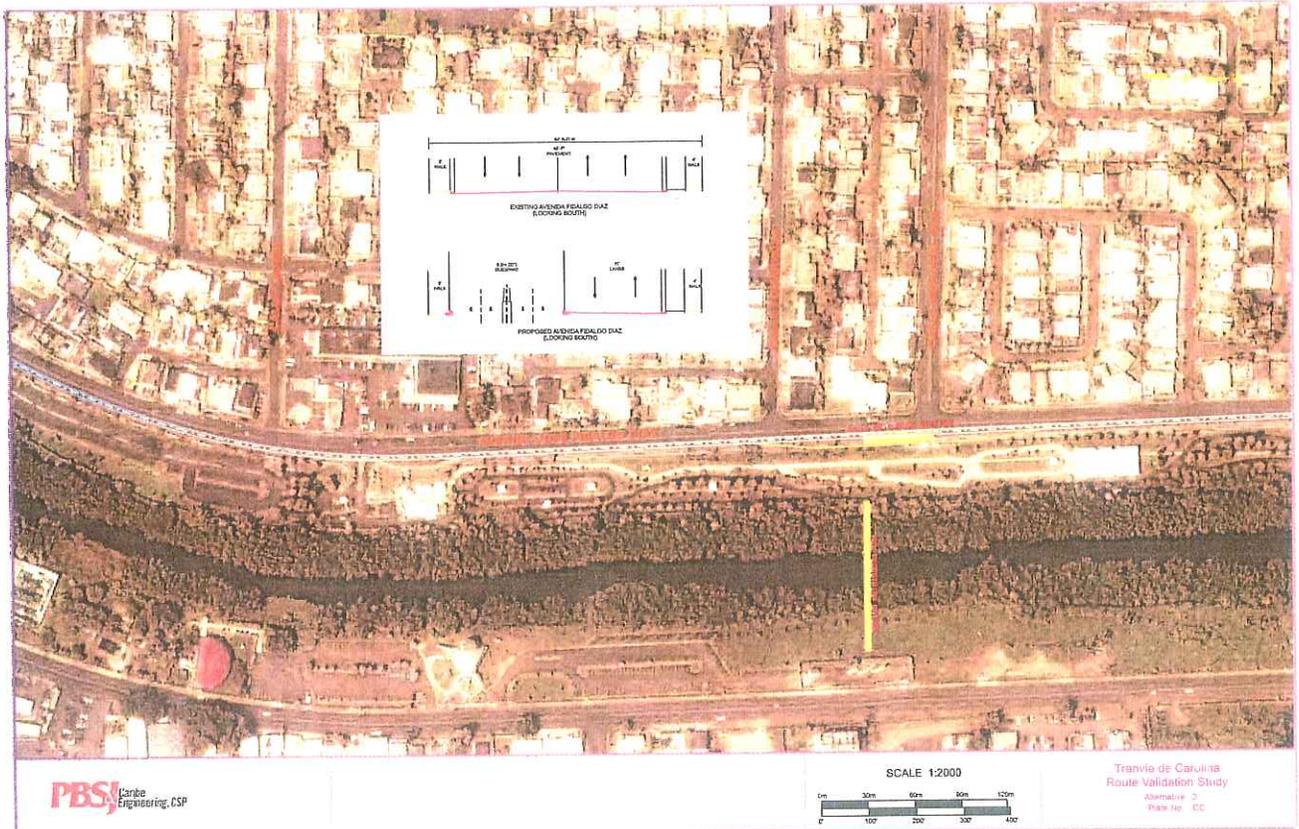
| | |
|---|--|
| <input type="checkbox"/> Recorded Data (Describe in Remarks): <input type="checkbox"/> Stream, Lake, or Tide Gauge <input type="checkbox"/> Aerial Photographs <input type="checkbox"/> Other <input type="checkbox"/> No Recorded Data Available | Wetland Hydrology Indicators: Primary Indicators: <input type="checkbox"/> Inundated <input type="checkbox"/> Saturated in Upper 12 Inches <input type="checkbox"/> Water Marks <input type="checkbox"/> Drift Lines <input type="checkbox"/> Sediment Deposits <input type="checkbox"/> Drainage Patterns in Wetlands Secondary Indicators (2 or more required): <input type="checkbox"/> Oxidized Root Channels in Upper 12 Inches <input type="checkbox"/> Water-Stained Leaves <input type="checkbox"/> Local Soil Survey Data <input type="checkbox"/> FAC-Neutral Test <input type="checkbox"/> Other (Explain in Remarks) |
| Field Observations: Depth of Surface Water: <u>NA</u> (in.) Depth to Free Water in Pit: <u>NA</u> (in.) Depth to Saturated Soil: <u>NA</u> (in.) | |
| Remarks: _____ | |

Appendix B: Proposed Alignment and Profiles

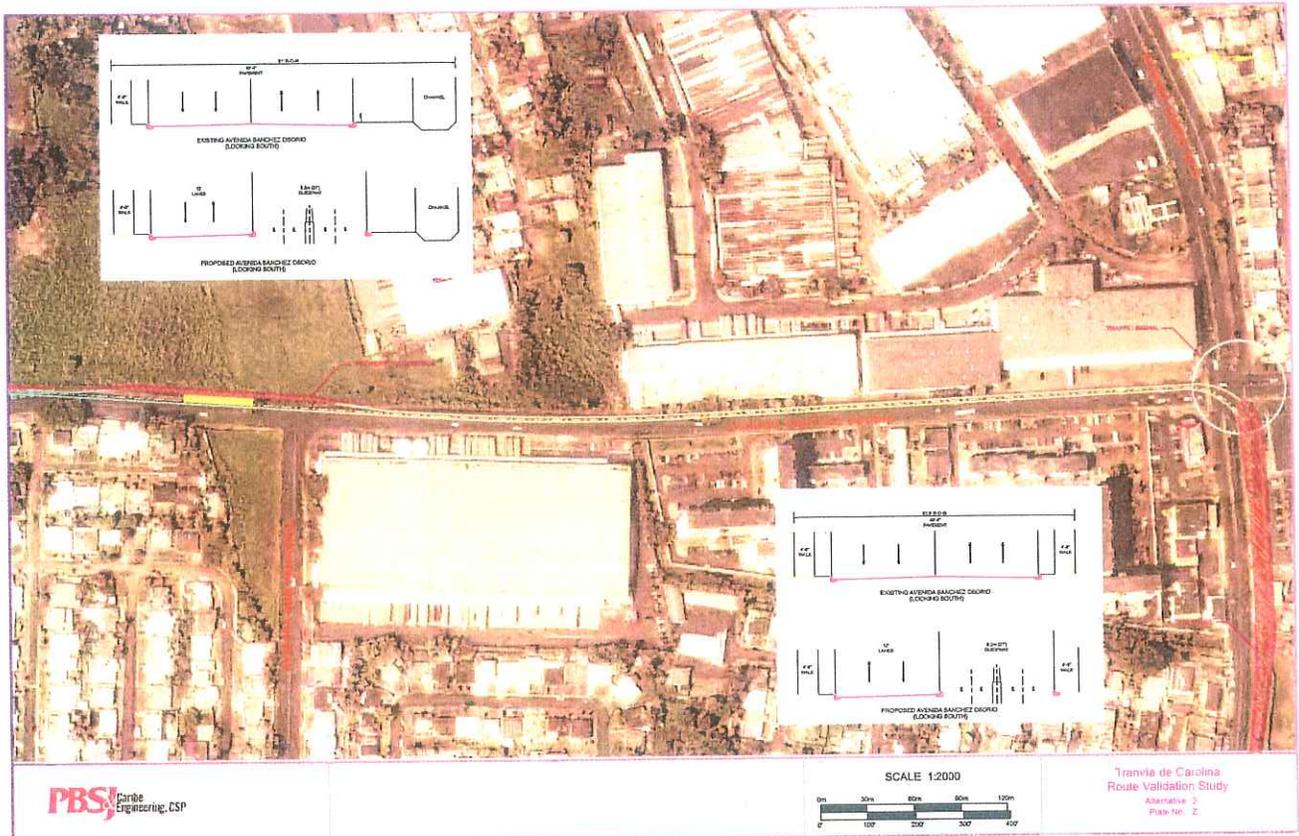




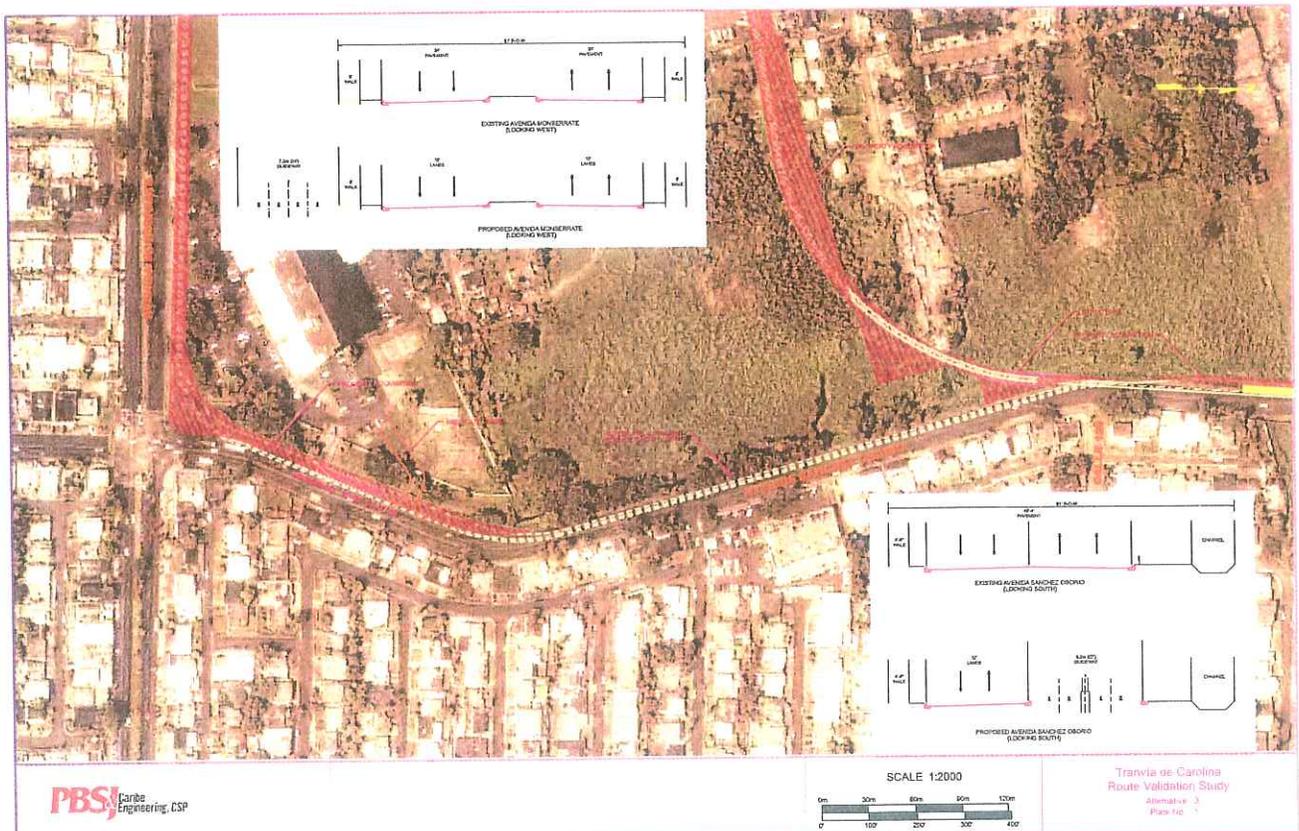
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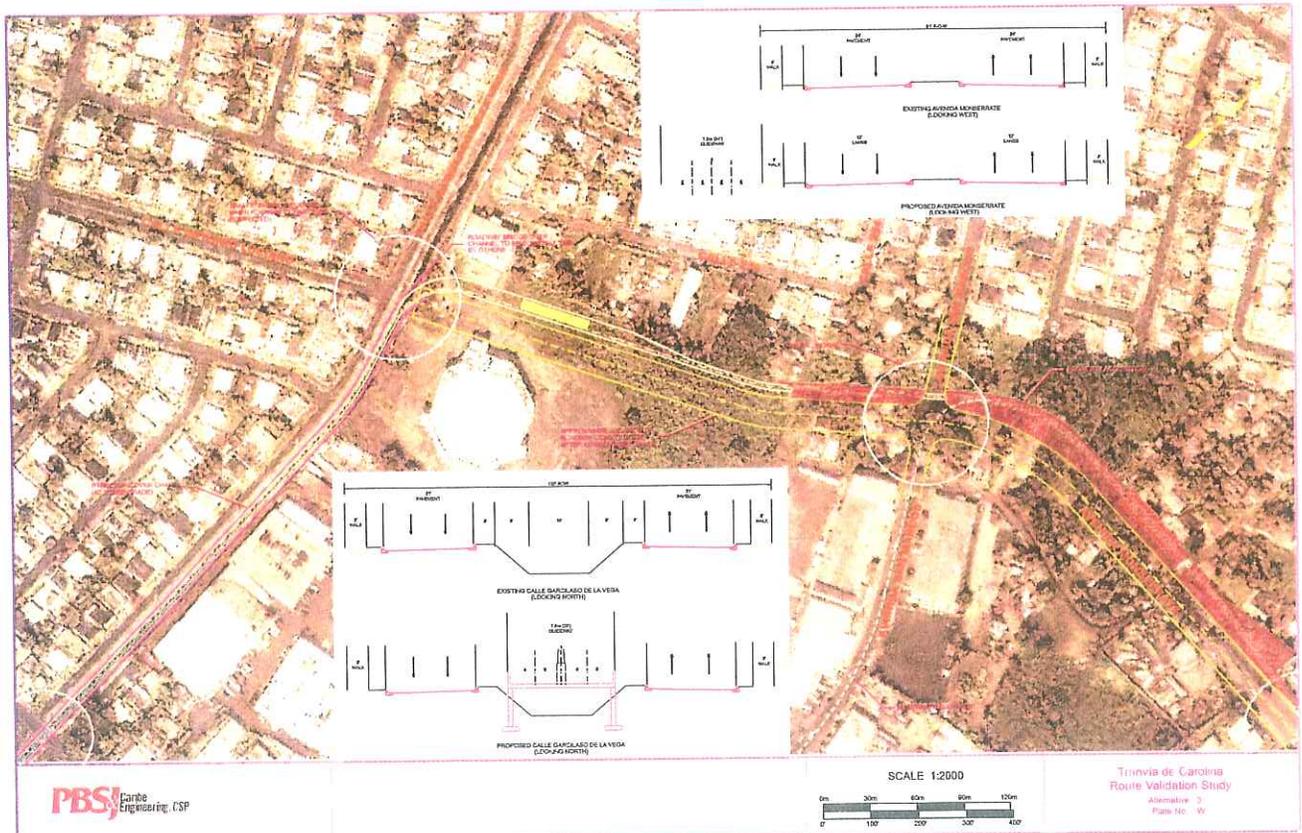
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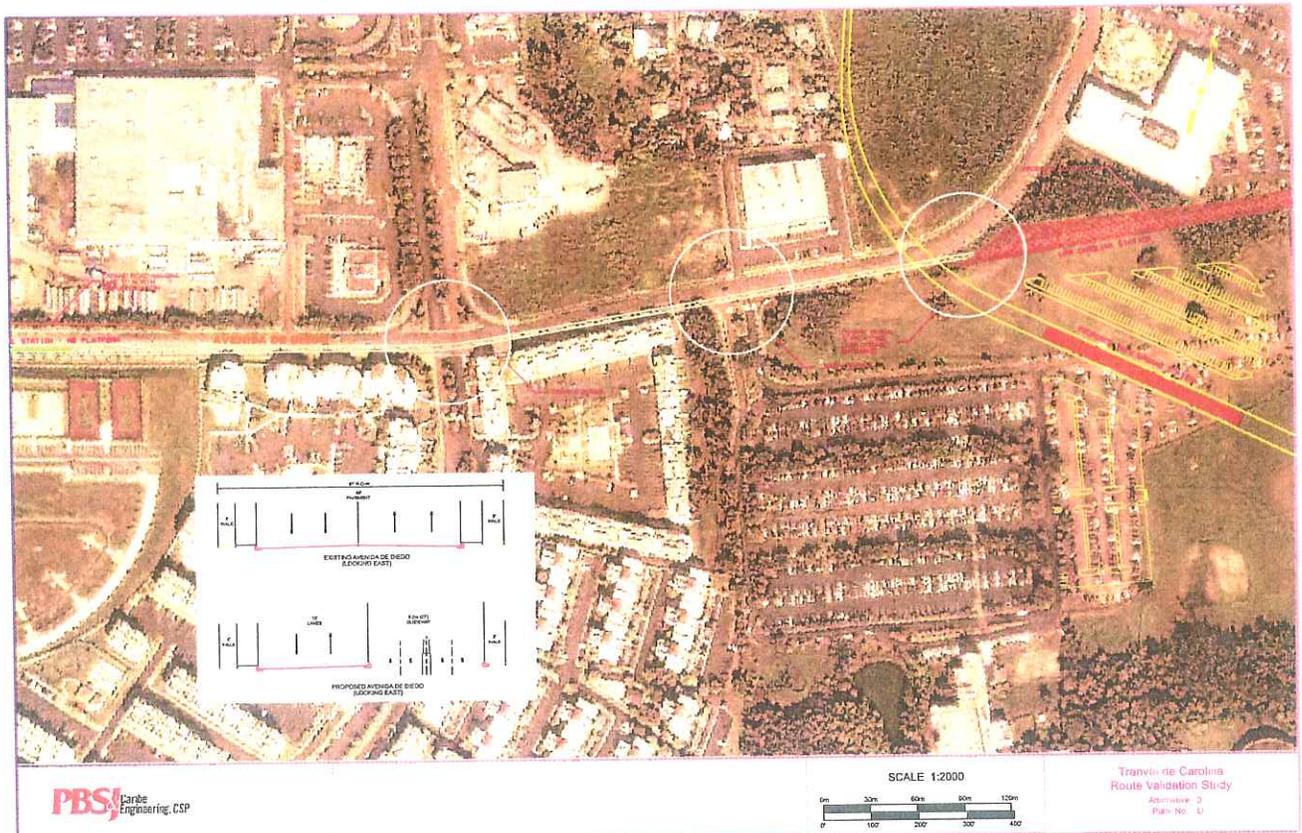
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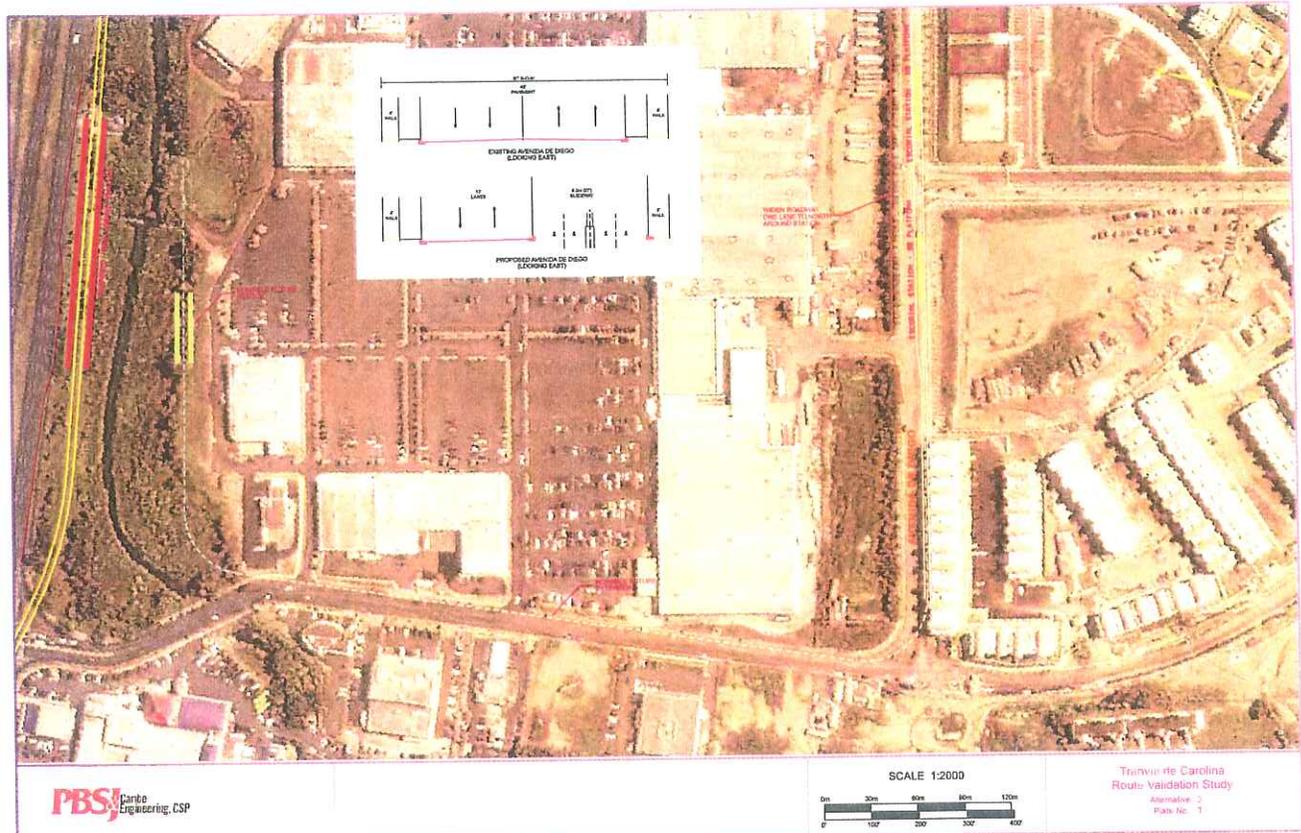
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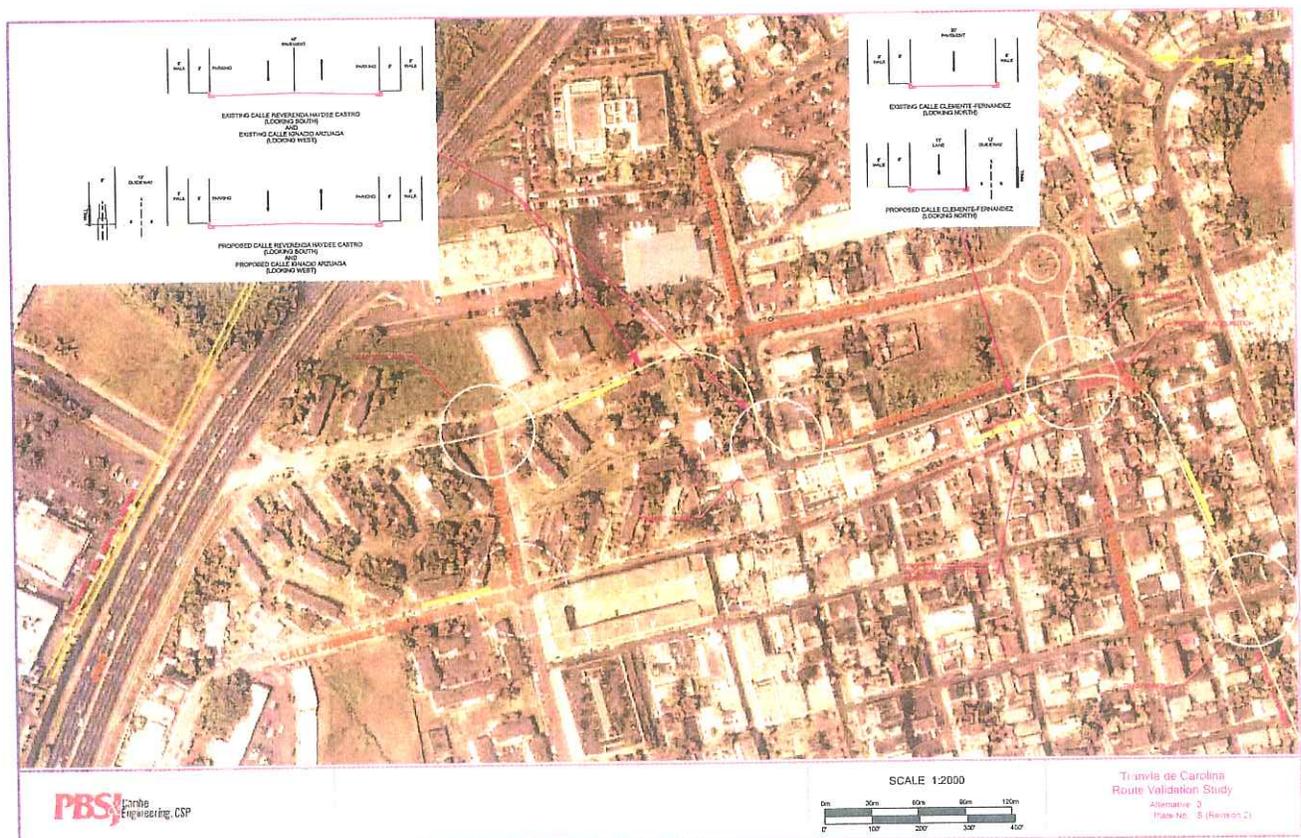
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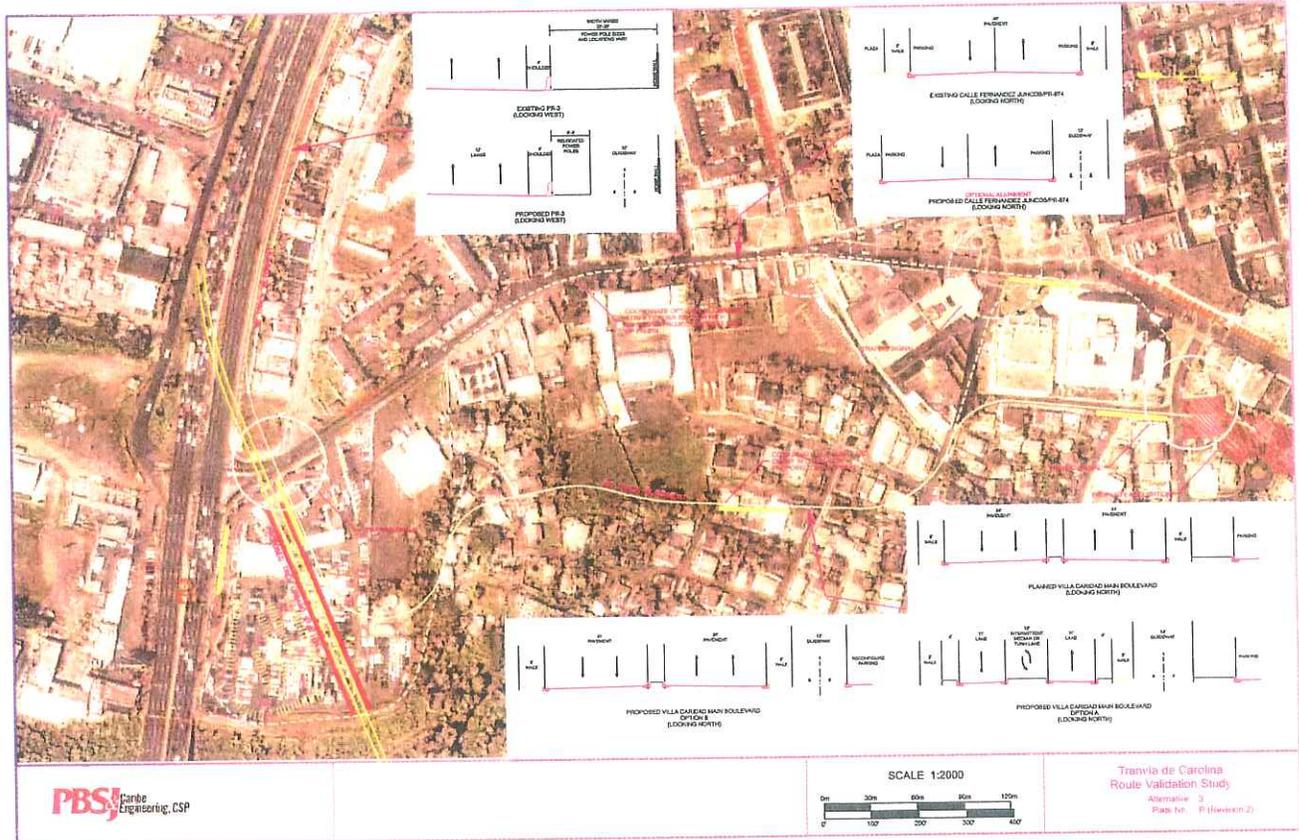
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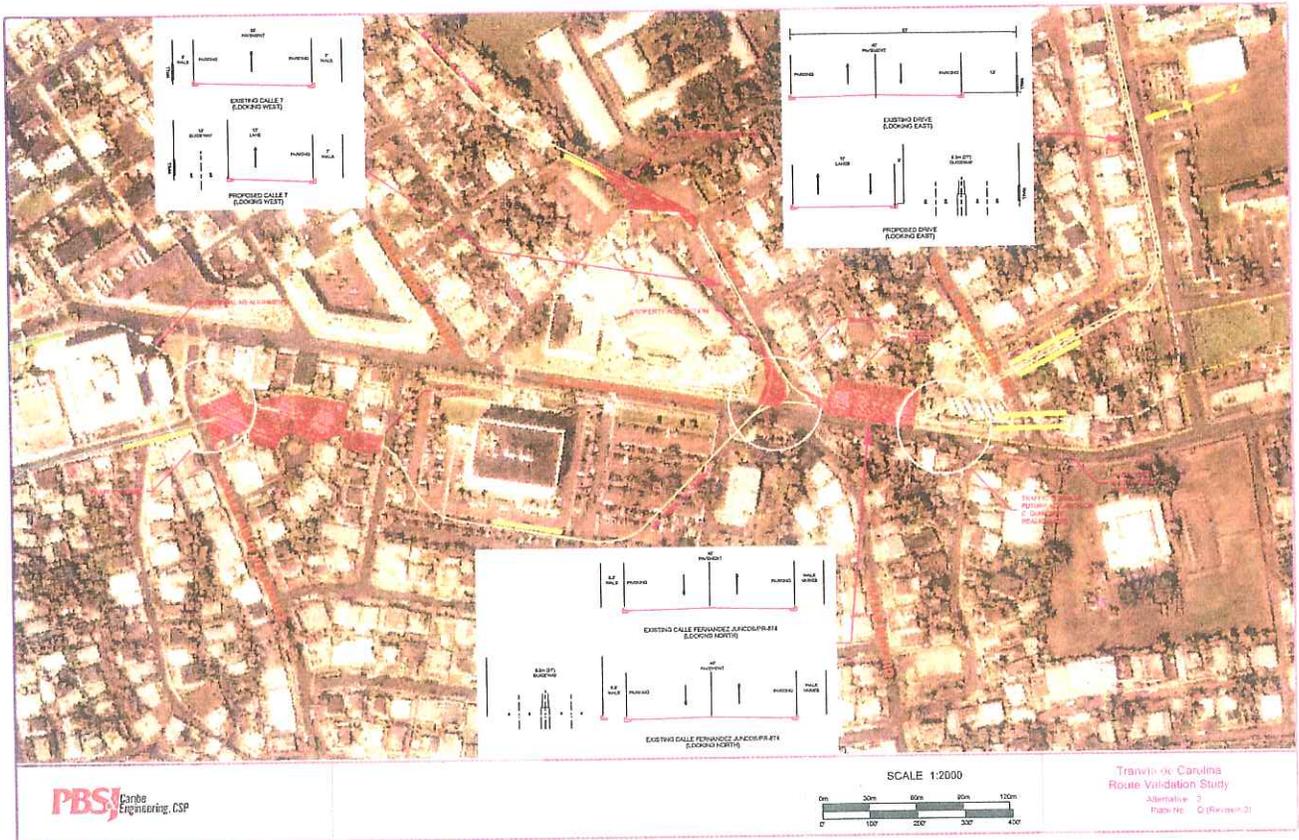
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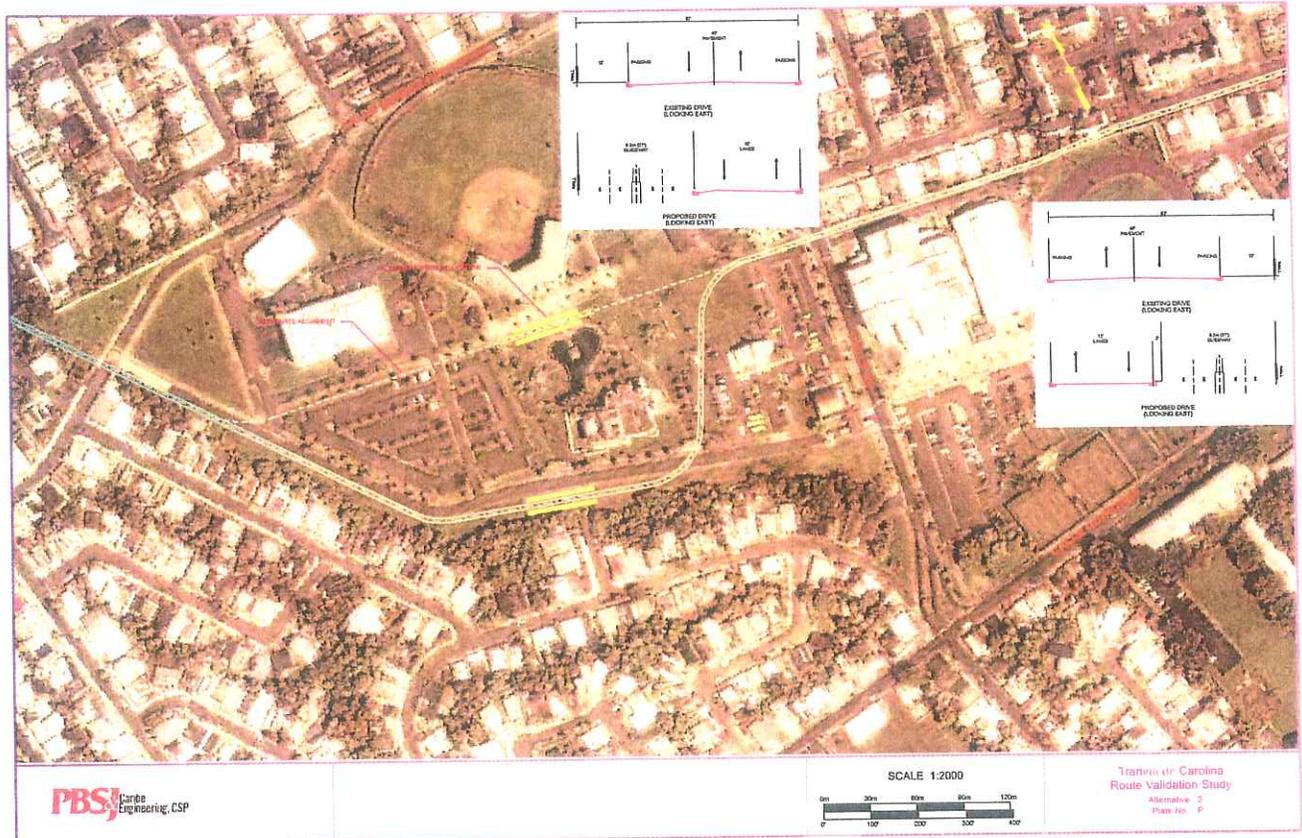
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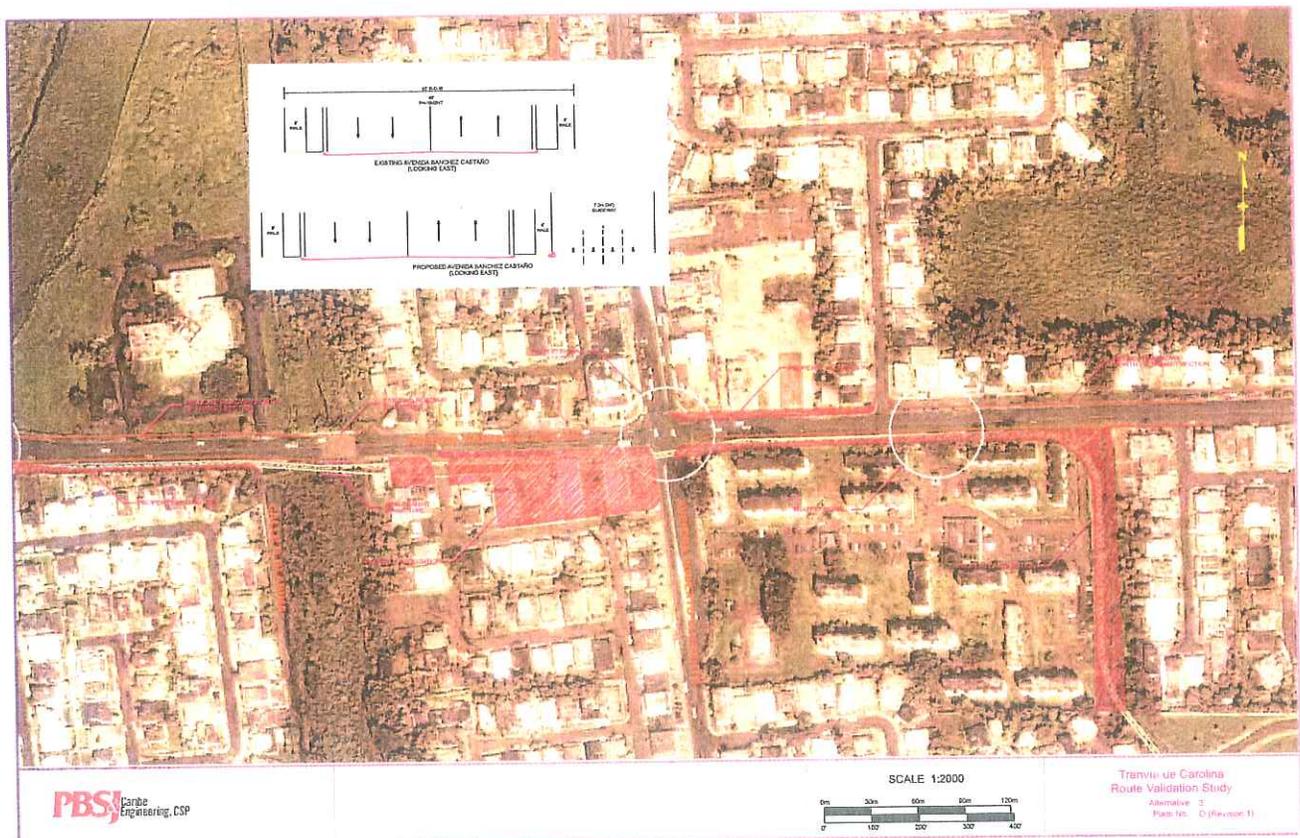
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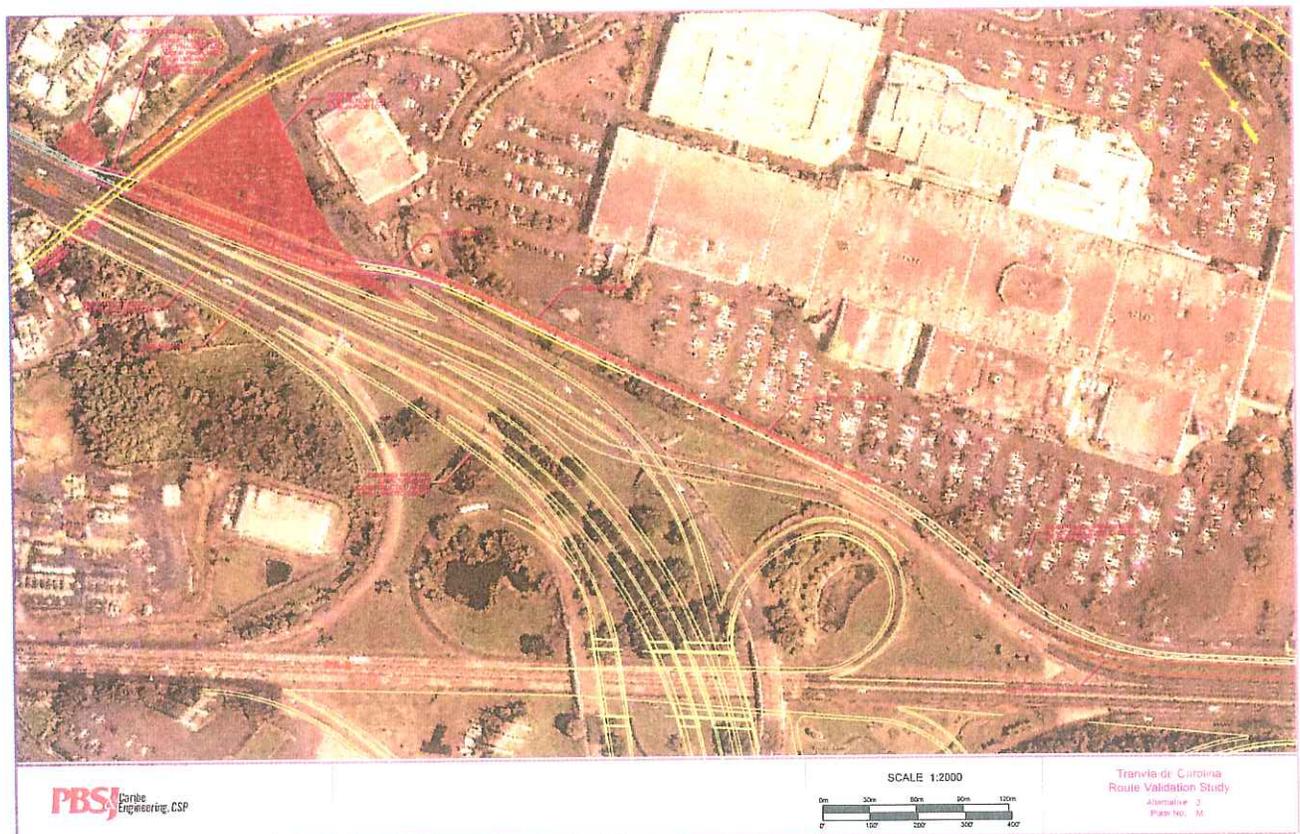
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