

Engineering Services

Frequently Seen Comments at FPR's

COVER SHEET

- ⇒ Add the county name to the length of project box
- ⇒ Add the milepost to the begin and end project designations.
- ⇒ Flag the midpoint on the cover sheet.
- ⇒ Add the north arrow to the cover sheet.
- ⇒ Add the location and design approval date to the cover sheet.
- ⇒ It is recommended that the Current ADT and Design ADT data be updated. The current ADT should normally be the "Base Year" as defined in Chapter 13 of the GDOT Design Manual (base year is the year the project is anticipated to be open to traffic). In accordance with the GDOT Design Manual, the design year is the anticipated future life of the project and for all GDOT projects the future traffic volumes will be 20 years from the base year. In the case of this project the current or base ADT should be for 2009 and the Design ADT should be for 2029.

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- ⇒ Ensure the latest revision for all Georgia Standards and Details are provided and they have the most recent revision dates. Ensure that the 31" guardrail standards are provided.
- ⇒ Not including Safety Edge Construction Detail P-7 .
- ⇒ Remove GDOT Construction Standards 4040 Alternate A & B Guardrail Anchorage without Flare. At present there is no Standard for this application using the 31" height guardrail. Verify this won't affect R/W.

GENERAL NOTES

- ⇒ Add the following General Note: ***All borrow and waste sites for this project shall be environmentally approved prior to construction activities. All common fill or excess material disposed outside the project right of way shall be placed in either a permitted solid waste facility, a permitted inert waste landfill or in an engineered fill.***
- ⇒ Add the following General Note: ***There is no suitable place to bury existing construction debris within the project's limits. The Contractor shall provide an environmentally approved site to dispose of existing construction debris at no additional cost to the Department.***
- ⇒ Provide the correct Call Before You Dig logo.
- ⇒ Add pH and Resistance or Resistivity values from the Soil Survey to the Pipe Culvert Materials Alternates.
- ⇒ The State Utility Engineers Office has indicated that "only" the Utility/Railroad Owner Name and Facility Type info are to be shown in the plans, since that data could be outdated over the life of a project. Please remove the Utility contact telephone number from the General Notes.

- ⇒ Add the project specific notes from the soil survey.
- ⇒ Pipe Culvert Materials Alternate Chart, add the date. Please contact Ian Rish with the GDOT Office of Materials and Research for the most current version, if the chart is older than March 22, 2010.
- ⇒ Incomplete or no Environmental Resource Impact Table in Plans
- ⇒ Inaccurate Stream Buffer Encroachment Tables / unidentified Stream Buffer Variances

TYPICAL SECTIONS

- ⇒ Remove the Stationing below all superelevated sections in accordance with the Plan Presentation Guide (PPG) which states “Do not break-out the station range of the superelevated section”. Direct the reader to note.
- ⇒ The new 31-inch guardrail standards use a 12” offset block instead of the 8” offset block used on the 27” guardrail. Revise the shoulder width dimension to account for the additional 4 inches. If 2’ distance from back of post to shoulder break is not provided a 9’ post is required. Ensure 9’ posts are noted as required for guardrail.
- ⇒ Ensure the minimum and maximum dimensions of all variable-width pavements are labeled in accordance with the PPG Section 05.002 Required Information.
- ⇒ Per the GDOT Pavement Design Manual, if paving material is supplied from Florida or soil cement, top soil or other soil bases are used, then show a Square Yard measure for payment if weighing is inconvenient. If Square Yard measurement is specified, the typical section shall be clearly dimensioned along the top finished surface and dimensions noted as the “Width of Payment.”
- ⇒ The Safety Edge placement should be noted on the construction plan typical sections, with reference to GDOT Construction Detail P-7 for details.
- ⇒ Ensure that all typical sections (roadway widths) agree with what is shown on the construction plans and the final cross sections at all possible points throughout the plans without any gaps or overlaps in the station designations.
- ⇒ Label the type median (ie. Concrete) on the typical sections.
- ⇒ Use correct pay item description for asphalt (ie. 19 mm Superpave is incomplete on all drawings. Change INCL BITUM to INCL BITUM MATL & H LIME).

SUMMARY OF QUANTITIES

- ⇒ SOQ is not matching the quantity in CES. (ie. Remove Wingwalls and Parapets is shown as 1 lump sum quantity in CES and 3 locations in the Summary of Quantities).
- ⇒ GDOT no longer uses Liquid Lime. Remove this item from the Summary of Quantities.
- ⇒ Temporary traffic striping is not typical paid for separately. It is usually part of the lump sum Traffic Control item.

PLAN SHEET

- ⇒ Ensure the minimum and maximum dimensions of all variable-width pavements are labeled in accordance with the PPG Section 05.002 Required Information.
- ⇒ Please add dimensions to reflect the proposed construction to include roadway dimensions, radii dimensions, taper stations and dimensions from alignment, pavement widths, median widths, and end of curb and gutter station on side streets, in accordance with the PPG Section 13.002 Required Information.
- ⇒ Label where the curb and gutter & concrete sidewalk is to begin/end
- ⇒ Please flag the limits of pavement work (i.e. limits of resurfacing, pavement removal, widening, full-depth, overlay, milling, reconstruction, etc.) in accordance with the PPG Section 13.002 Required Information.
- ⇒ Label the type rip rap on the plan sheet.
- ⇒ Add the structure number or size to all drainage structures
- ⇒ Label the type of wheel chair ramp that is to be installed at all of the wheel chair ramps on the plan sheets
- ⇒ Not all Utilities shown on the plans.
- ⇒ Verify Superelevation transition lengths. Many appear short and/or are applied incorrectly. GDOT standard is to apply SE at 1/3 in curve & 2/3 in tangent (Page 4-31, GDOT Design Policy Manual). Label ENC, BSE, RC, BFSE, EFSE, ESE & BNC stations and SE rates.
- ⇒ The curve data is incomplete and ensure all PC, PCC, and PT points are shown and labeled. Please refer to the GDOT Plan Presentation Guide (PPG).
- ⇒ There are several locations with fence that will be removed. Verify if the removal of fencing will be covered in the Right of Way negotiations or will new fence need to be added to the construction plans. If the fence is added to the construction plans; verify if gates will be required. Type of each will need to be specified.
- ⇒ Several Existing pipes shown on the plans yet only a few instruct to remove. Verify if the remaining pipes are to be retained. Please provide a note to either, retain, remove or plug/fill all existing pipe to provide adequate information for the Contractor to prepare his bid.
- ⇒ Ensure that the ESA notes are placed on ALL plan sheets where an ESA exists.
- ⇒ Angles are missing at roadway intersections. This information is required by the Plan Presentation Guide.
- ⇒ Please add plus (+) station numbers for all driveways and label them on the centerline of the construction plans.
- ⇒ Ensure that sufficient R/W or easement is obtained and provided for construction work areas. Normally 10' is recommended from the fill line locations to the R/W or easement and 5' at cut locations. Currently some locations do not meet these minimum recommendations.
- ⇒ Label the plus (+) station numbers for all driveways on the centerline of the construction plans.
- ⇒ Add a General Note indicating that all sidewalks within radii shall be 8 inch

- ⇒ Please revise the Matchlines to include station and drawing number in accordance with the PPG Section 13.002 Required Information.

PROFILE

- ⇒ All of the sag and crest vertical curves do not meet AASHTO and will require a design exception. Recommend reevaluating the profile and lengthening the vertical curves to meet AASHTO requirements. This may require lengthening the project.

CONSTRUCTION STAGING & STAGING CROSS-SECTION PLAN SHEETS

- ⇒ Show traffic arrows on all staging cross sections

DRAINAGE PROFILES

- ⇒ Add the required Type II Foundation Backfill and design height of fill to the label. (ie. I for the double 10' X 7' box culvert at 186+58. Ensure all quantities for Type II Foundation Backfill are included).

CROSS SECTIONS

- ⇒ Include berm ditch for embankments over

SIGNING AND MARKING GENERAL NOTES

- ⇒ Note No. 9, Type 3 Change (ENCAPSULATED LENS) to (HIGH INTENSITY).
- ⇒ Note No. 10 & 11, Type 9 Change (WIDE ANGLE PRISMATIC) to (VERY HIGH INTENSITY).