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A Kleinfelder Company

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DELDOT UTILITIES SECTION
POST-COORDINATION & CONSTRUCTION REVIEW MEETING: FINAL

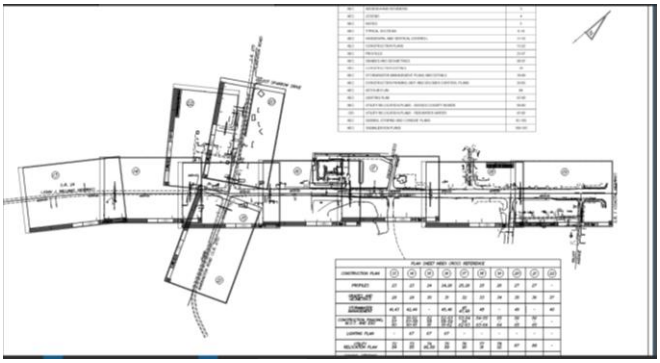
STATE CONTRACT: T200411209 SR24, Mulberry Knoll to SR1

REVIEW MEETING DATE: December 04, 2024

PREPARED BY: Alan K. Marteney, P.E.
Century Engineering, LLC, a Kleinfelder Company

INVITEE	ORGANIZATION	e-mail	ATTEND
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Greg Coury	Tidewater Utilities-Water	gcoury@middlesexwater.com	N
Brad Hawkes	Sussex County-Sewer	bhawkes@sussexcountyde.gov	N

BRIEF PROJECT DESCRIPTION: The project included the widening of SR24 from a nominal two-lane road to four-lanes with left & right turn lanes, bike lanes and sidewalks. The project limits were along 5,400 feet of SR24 from approximately 1,800 west of the intersection of Plantation Road/Warrington Road (both S275 and the intersection commonly known as Mulberry Knoll) to approximately 200 feet west of SR1. Improvements also extended along S275 approximately 1,000 north and 900 feet south of SR24-see project location map below:



UTILITIES INVOLVED:

- Chesapeake Utilities-Gas Distribution
- Comcast Cable-Communication
- Crown Castle/Lightower/Fibertech-Communication
- Delaware Electric Cooperative-Electric Distribution
- Delmarva Power-Electric Distribution
- Sussex County Engineering-Sewer
    - Relocation plans and specifications were included in the road construction project. No reimbursable costs were applicable from this municipal owner per Delaware Code.
- Tidewater Utilities-Water
    - Relocation plans and specifications were included in the road construction project. Reimbursable costs were formalized in a Utility Agreement.
- Verizon-Communication
- DelDOT-ITMS

ADVANCE UTILITY RELOCATIONS: A majority of the utility relocations were performed in advance with Century providing survey stakeout for the relocations, RW & clearing.

COMCAST performed a portion of their relocations in advance and then the Utility Statement described protocols to determine if construction would conflict and require relocations and the subsequent process to have the relocations performed.

ROAD CONTRACTOR: Mumford & Miller Concrete, Inc.

ROAD CONSTRUCTION START DATE: March 09, 2020: Original 537 Calendar Days plus 173 Calendar Days Extension = 710 Calendar Days Total Time.

ROAD CONSTRUCTION END DATE: February 2022

DELDOT PROJECT DEVELOPMENT SECTION/PROJECT MANAGER: PD South; John Gaines

ENGINEER OF RECORD FIRM: AECOM

DELDOT CONSTRUCTION REPRESENTATIVES: George Pierce

CONSTRUCTION INSPECTION FIRM:

- Century Engineering

DELDOT UTILITY COORDINATOR: Eric Cimo

MAJOR PROJECT CHALLENGES: Project is located within a highly developed commercial and residential area and is one of the major East-West access corridors to the beach resort areas. During both Project Development and Construction, a major challenge was keeping up with changes due to new developments. These resulted in changes to the road design and subsequently the utility relocations. A challenge was also coordinating with the timing of the road improvements and utility services needed for the new developments which included a new Beebe hospital center on Warrington Road and the associated road improvements/roundabout and new utility services.

This was one of a series of road contracts along SR24. Century Engineering provided overall construction management and utility coordination for all those projects, including a dedicated survey crew.

The schedule for the advance utility relocations was developed so that they would be complete by the time that the road contract started based on the anticipated phasing and durations of the utility work. Century provided survey stakeout, on-site inspection and as-built documentation for the advance utilities. This phase of the project went well.

LESSONS LEARNED from this project included:

- For the Chesapeake Utilities-Gas distribution line, utility test holes were performed and the locations indicated a common depth. During construction, contractor test holes found that the line was shallower at some locations that may have been at points where the original installation was spliced and this seems to be encountered frequently.
- Water and sewer relocations by the road contractor went well and there were no conflicts with the advance utility relocations which emphasized the importance of having the advance relocations overseen and survey performed.
- A new hotel was in the process of being developed during the design phase of the project. There was good coordination between PD South, Planning, Utilities and South District to have the new entrance and utility services to this property installed to avoid conflicts with the road project and associated utility relocations.
- For the Sewer, two vaults were identified on the plans as Do Not Disturb but were located within the proposed sidewalk. This resulted in challenges to meet ADA requirements for the proposed sidewalk. Detailed design grades, slopes, and cross slopes in the area of utility vaults/manholes that are to remain should be included in the construction plans if similar situations are encountered on other projects.
- A new Beebe medical center was in the process of being developed during the design and built during the construction phases of the project. There was good coordination between PD South, Planning, Utilities and Construction to have the new road improvements, entrance and utility services to this property installed to avoid conflicts with the road project and associated utility relocations. This emphasized the importance of communication and coordination amongst the DelDOT sections and with the utilities.