

DESIGN REVIEW COMMENT AND RESOLUTION FORM



PROJECT NO.: 607411

DESCRIPTION: Tisbury Beach Road

DESIGNER: GPI

SUBMITTAL: 25

REVIEW SECTION: MassDOT Pavement Management Section

PROJ. MANAGER T. Curry

DATE: November 2, 2016

REVIEWER NAME: K. FitzGerald

NO.	SHEET OR ITEM	COMMENT	INITIAL ACTION	RESPONSE	QC REVIEW INITIAL	FINAL ACTION VERIFIED
COMPLETED BY REVIEWER			COMPLETED BY DESIGNER			BY REVIEWER
		<p>The proposed project indicates 4 out of 5 cores with 7-10 inches of HMA and one outlier with 4 inches of HMA. The pavement cores appear to be older sheet mixes or sand mixes. The pavement scope of work indicates approximately 1000 feet of mill and overlay and 1600 feet of full depth construction.</p> <p>The Design Engineer is recommended to increase the full depth construction to the limits of work rather than mobilize milling operation for 1,000 feet. Removing old HMA sheet mixes will provide a more consistent pavement section with better performance, service life and simpler construction operation. The full depth construction will reduce small box widenings and cement concrete base course and allow better compaction of roadway materials.</p> <p>The SN for the pavement above the sub-base is 2.5 for a twenty year design. The pavement section to satisfy this is 6.5 inches of HMA. The SN for a 40 year design is 2.7 and the pavement section to satisfy this is 7.5 inches. Revising the full depth pavement to 7.5 inches should cost to enable more full depth construction. The pavement section is suggested as follows:</p>	A	Full depth construction will be provided throughout the entire project limits.	JAT	

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		<p>Proposed Pavement Notes Proposed Full Depth Constuction</p> <p>1.5" Superpave Surface Course 9.5 (SSC-9.5) over Asphalt Emulsion for Tack Coat over 2" Superpave Intermediate Course 12.5 (SIC-12.5) over Asphalt Emulsion for Tack Coat over 4" Superpave Base Course 37.5 (SBC-37.5) over 4" Dense Graded Crushed Stone for Sub-base over 8" Gravel Borrow Type b or existing suitable sub-base compacted</p> <p>Prop HMA Drives 1.5" Superpave Surface Course 9.5 (SSC-9.5) over Asphalt Emulsion for Tack Coat over 2" Superpave Intermediate Course 12.5 (SIC-12.5) over 8" Gravel Borrow Type b or existing suitable sub-base compacted</p> <p>Prop HMA Walks 1" Superpave Surface Course 9.5 (SSC-9.5) over Asphalt Emulsion for Tack Coat over 1.5" Superpave Intermediate Course 12.5 (SIC-12.5) over 8" Gravel Borrow Type b or existing suitable sub-base compacted</p>	A	This comment has been incorporated into the 75% Design Submission.	JAT	

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		Full Depth Construction will provide better grade controls at back of sidewalk and better traffic management. Old pavement 7-10 inches thick may be able to be removed and repaved with fine grading and compacting and new 7.5-inch HMA pavement.	A	Noted.	JAT	

COLUMN "NO." PREFIX FOR COMMENT NO'S - PLANS =P, SPEC. PROVS=S, EST.=E, CALC BOOK=C, BRIDGE CALCS=D, OTHER = O
"ACTION" A=WILL INCORPORATE, B=WILL EVALUATE, C=DELETE COMMENT