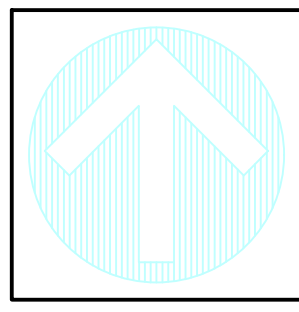


NOTES:

1. Design Flood Elevation (DFE) for portions of the existing building and new additions in the Flood Zone 'AE' is BFE of 660.5 + 2 feet (for East Montpelier Non-Residential) = EL. 662.5.
2. Dry floodproofing of building requires walls and slabs to be substantially impermeable for DFE. This is approximately static 130 psf of base (maximum) pressure. Velocity fluid pressures are not required in this Zone AE.
3. Structure Flood Design for Diagonally hatched plan area of building:
 - Walls: The building walls and openings dry flood proof measures, are flood panels at openings and walls designs with membranes. Wall structures and jambs are designed to resist flood pressures. The existing walls are found adequate by comparison to grandfathered code wind loads to resists pressures.
 - Slabs: The sub-grade clay soils and below grade foundation walls and footings were analyzed for resistance to water infiltration that could engender hydrostatic uplift. The conditions were found to be substantially impermeable and able to reasonably obviate that condition.
4. Plumbing Flood Design: Cut-off valves will be installed to be able to prevent back-flow for the DFE pressures to fixtures at the grade level.
5. See Architectural Drawings for Wall Flood Measures
6. See Civil Drawings for Plumbing Flood Measures
7. See "Topographic Survey" Drawing dated 10/15/20 by Chase & Chase Surveyors. Flood Zone Line on survey based on elevation 660.5 at building.
8. See FIRM/FEMA radar imaging for Vermont and Civil for Flood Zone Line



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DEMERS AUTOBODY AND SALON
East Montpelier, Vermont



BLACK RIVER DESIGN ARCHITECTS

| REVISIONS | |
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|------------------------------|
| FLOOD DESIGN BASIS NARRATIVE |
| SCALE 1" = 30' |
| DATE 11/18/2021 |
| DRAWN BY PMB |
| CHECKED BY RMJ |

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