

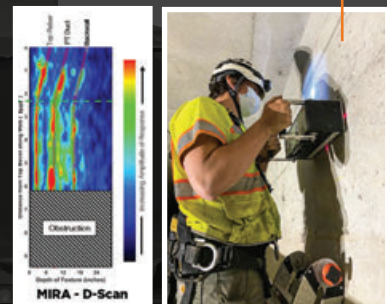
# NDE PRESTRESSED CONCRETE EVALUATION

Multi-technology approach to Nondestructive Evaluation, complementary analysis/reporting, and data-driven asset management.

UPV and MIRA for crack depth detection



MIRA and IE for PT void identification



GPR for PT duct location and depth



Physical sampling and borescope evaluation



# WHAT IS IT USED FOR?

- + CRACK DEPTH DETECTION WITH ULTRASONIC PULSE VELOCITY (UPV)
- + PT DUCT LOCATION WITH CONTINUOUS WAVE STEP FREQUENCY (CWSF) GROUND PENETRATING RADAR (GPR)
- + IMPACT ECHO (IE) AND MIRA FOR VOID DETECTION
- + MATERIAL SAMPLING AND BORESCOPE INSPECTION FOR ROOT CAUSE ANALYSIS

IE

UPV

MIRA

CWSF

GPR



TAKE A LOOK

**BELOW THE SURFACE**  
**OF YOUR**  
**STRUCTURE**

BDI offers nondestructive evaluation to evaluate PT ducts and determine location of voids or other degradation. Utilizing a multi-technology approach, we can evaluate crack depths with UPV, determine the location of PT ducts and other structural elements with CWSF GPR, and locate voids and other anomalies with MIRA and IE. We also perform physical sampling via coring, concrete powder sampling, and borescope investigation to determine the root cause of the degradation and identify any cross section of the tendons.

This information allows owners of these structures to make informed decisions with regards to their preservation, maintenance, and other asset management programs ensuring efficient allocation of funding and other resources.