



#### EVALUATION AND CONDITION ASSESSMENT

CTL Engineering provides various levels of condition assessment to aid clients in managing facility assets. We examine the envelope assembly from the building interior as well as from the exterior. We obtain samples to identify materials, for laboratory analysis, and to obtain data on moisture infiltration. CTL Engineering routinely performs non-destructive testing using infrared, nuclear, and capacitance equipment and methodology as a part of the diagnostic process.

#### QUALITY ASSURANCE

Quality Assurance Service is recognized by the industry as a vital component of successful roof installation. CTL Engineering's roof inspectors are trained to observe all phases of installation to ensure the materials are in compliance with project documents. Our daily Roof Inspection Reports delineate material and installation compliance and document unforeseen contingent items to the contract. We address non-compliant issues immediately to ensure proper installation of the specified roofing assembly.

#### COMMISSIONING

CTL Engineering provides air/water barrier testing during construction to comply with commissioning requirements.



**▶ THE ROOFING AND BUILDING ENVELOPE DEPARTMENT AT CTL ENGINEERING PROVIDES A FULL RANGE OF DIAGNOSTIC AND DESIGN SERVICES IN ALL FACETS OF THE BUILDING ENVELOPE INCLUDING ROOF SYSTEMS, WALL SYSTEMS AND WATERPROOFING**

#### CTL ENGINEERING'S ROOF ENGINEERING AND BUILDING ENVELOPE SERVICES INCLUDE;

- Due Diligence
- Design, Evaluation,
- Condition Assessment,
- Non-Destructive Testing,
- Materials Testing,
- Construction Quality Assurance,
- Asset Management,
- Maintenance Programming, and
- Expert Testimony

CTL Engineering also conducts seminars on Envelope Design, Maintenance, and current issues as we stay on top of technology and trends.

#### DESIGN

Proper design is critical when remedial work is needed. Inadequate or flawed design will result in reduced useful life span of the building envelope component or system. Our experienced designers pay attention to the details of a client's facility and custom design; we don't pull plans off a shelf. CTL Engineering also reviews documents for technical content and constructability.