PROSOCO

CTP MAD-2000

CTP CONSTRUCTION TIE PRODUCTS

Provides stability and longitudinal freedom for expansion movement

The CTP Masonry Alignment Device-2000 (CTP MAD-2000) joint stabilizing anchor is an all metal, durable anchor assembly, specifically designed to allow movement at expansion, contraction or isolation joints in masonry while maintaining the wall alignment in a direction normal to the movement.

CAN BE BENT IN THE FIELD TO FIT THE APPLICATION

NO EXPOSED HARDWARE

CORROSION RESISTANT

300 POUNDS OF SHEAR RESISTANCE

EASY POST-INSTALL QUALITY CONTROL
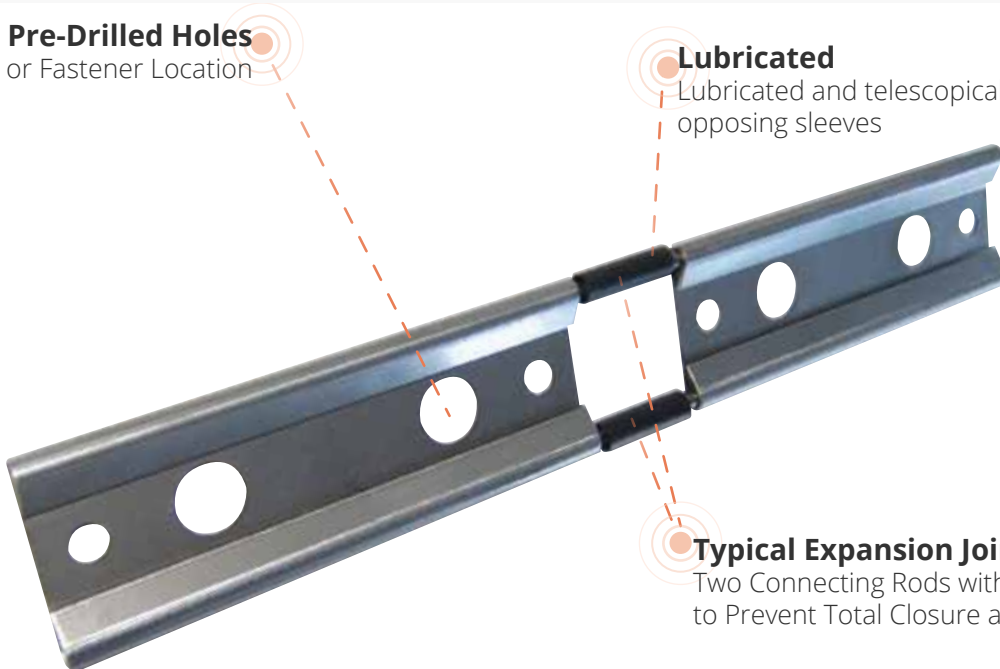
BRIDGES GAP OR JOINT IN WALLS

Pre-Drilled Holes
For Morter Key or Fastener Location

Lubricated
Lubricated and telescopically connected in the opposing sleeves

Typical Expansion Joint
Two Connecting Rods with Flexible Plastic Tubing to Prevent Total Closure and Mortar Bridging

CTP MAD-2000
Flexible Anchor for New Wall Construction or Repairing Wall Cracks

Product Line Description

The CTP MAD-2000 is manufactured of either stainless steel or galvanized sheet metal sleeves and connecting rods, depending on specific applications. The wire rods provide the shear resistance to maintain alignment of the joint. The CTP MAD-2000 is a great solution in new construction or retrofit masonry applications. Contributes to green building construction and restoration projects.

The CTP MAD-2000 allows for expansion of clay masonry and shrinkage of concrete or concrete masonry. It is also adaptable for connection to steel framing. It is a great solution for bridging vertical expansion joints and provides collateral stability of adjoining walls while providing longitudinal freedom for expansion movement. It is easy to install and creates an effective way to keep adjoining masonry walls from disconnecting. When constructing the masonry wall, the sleeves are completely embedded in the mortar of the bed joint or the grout of filled CMU. The sleeve design allows for the mortar to key through the specific manufactured openings. The keying action and the complete bedding of the sleeves make for a solid connection to the masonry. Two steel wire connecting rods are factory assembled within the sleeves and spaced with flexible plastic tubing to allow for movement via a telescoping action. The flexible plastic tubing insures that expansion can take place by properly spacing sleeves and preventing mortar build up during construction. The CTP MAD-2000 sleeves can be embedded in masonry bed joints or fastened to existing construction. The CTP MAD-2000 does not require site fabrication of sleeves. It can be added to existing walls if expansion joints are required. It also does not require sash grooves to transfer load.
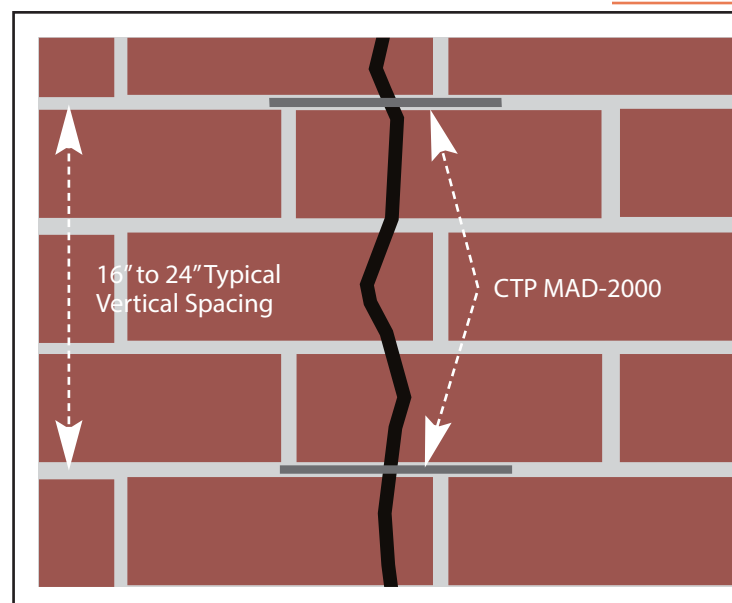
Stabilize Cracked Walls for Expansion Control

Average maximum shear load = 300 lb.
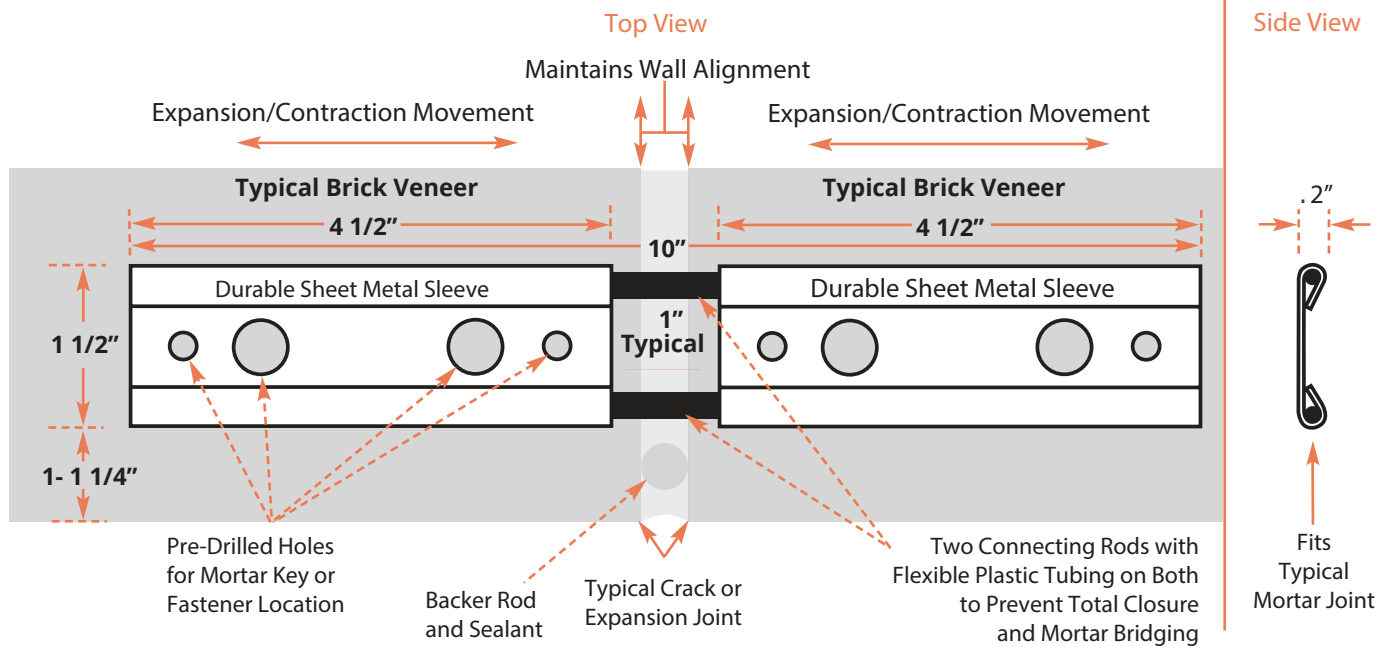Safe working shear load* = 75 lb – 150 lb.
* Safety factor 4:1 or 2:1

Typical Applications

• Bridging Vertical Expansion Joints
• Intersecting Walls - Hollow Masonry Units
• Intersecting Walls - Solid Masonry Units
• Connection to Slabs or Spandrel Beams
• Connection of New Walls to Existing Walls
• Retro-fitting Exiting Veneers with Expansion Joints
• Steel or Concrete Frame Construction

16" to 24" Typical Vertical Spacing

CTP MAD-2000

MAD-2000 ADVANTAGES

Top View

Side View

Maintains Wall Alignment

Expansion/Contraction Movement

Expansion/Contraction Movement

Typical Brick Veneer

Typical Brick Veneer

4 1/2"

4 1/2"

10"

. 2"

Durable Sheet Metal Sleeve

Durable Sheet Metal Sleeve

1 1/2"

1"
Typical

1- 1 1/4"

Pre-Drilled Holes
for Mortar Key or
Fastener Location

Backer Rod
and Sealant

Typical Crack or
Expansion Joint

Two Connecting Rods with
Flexible Plastic Tubing on Both
to Prevent Total Closure
and Mortar Bridging

Fits
Typical
Mortar Joint

Performance

By installing this anchorage at the expansion joint of continuous adjoining walls, or bridging the crack and expansion joint location of the existing walls, the vertical rotation of the two walls is restricted. Also, by field bending the CTP MAD-2000 just 90°, fastening a leg to a perpendicular abutment, and then embedding the remaining portion in the bed joint of an intersecting wall, provides lateral movement of the intersecting walls. The anchor assemblies are spaced at 16" to 24" centers vertically at the adjoining walls.

The CTP MAD-2000 anchorage is designed principally to resist shear forces between in-plane masonry wythes created by wind loads on the masonry surface. The anchor system consists of two specially designed steel sleeves which are placed in a collinear bed joint of adjoining walls. Each sleeve is bedded in mortar for a solid connection in the opposing masonry wythes. Thereby the assembly bridges the gap or joint between the walls. The CTP MAD-2000 sleeves are connected with two parallel connecting rods. The connecting rods are lubricated and telescopically connected in the opposing sleeves, thus allowing unrestricted longitudinal movement of the walls. The sliding action of the connecting rods provides the proper freedom of movement for full utilization of the expansion joint. The total anchorage is available in Type 304 stainless steel for exterior applications, or zinc plated for interior or less humid situations.

Retrofitting an existing masonry wall with a CTP MAD-2000 will provide a functional expansion joint at select locations. The placement of the assembly will require the removal of existing mortar in order to create a pocket for the CTP MAD-2000. Properly prepare the pocket to bed the assembly in a compatible mortar. Point and finish the concealed device after installation.
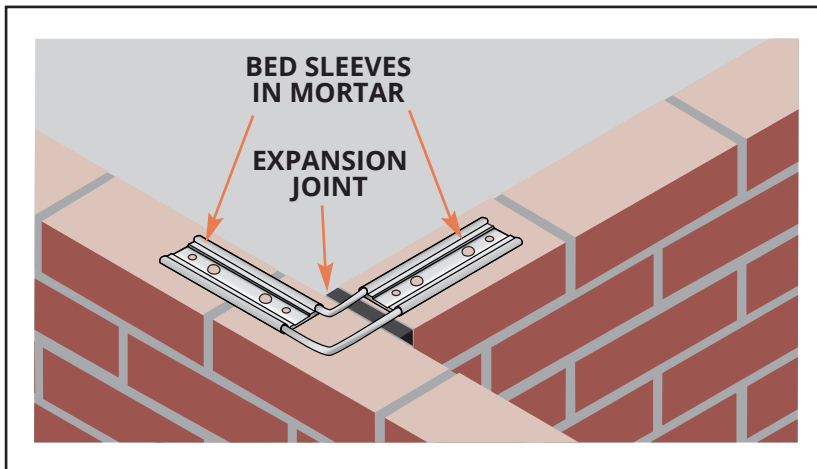
VERTICAL EXPANSION JOINTS IN NEW WALLS
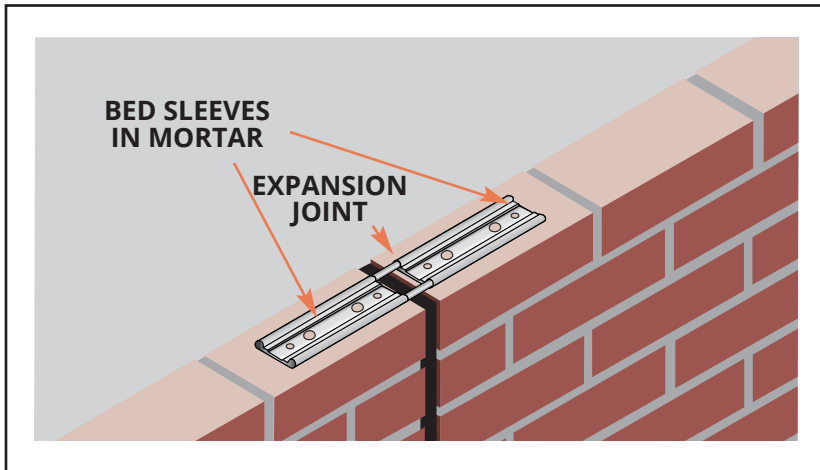
BED SLEEVES
IN MORTAR

EXPANSION
JOINT

Typical Expansion Joint
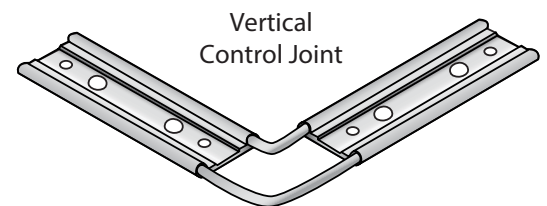
Two Connecting Rods with
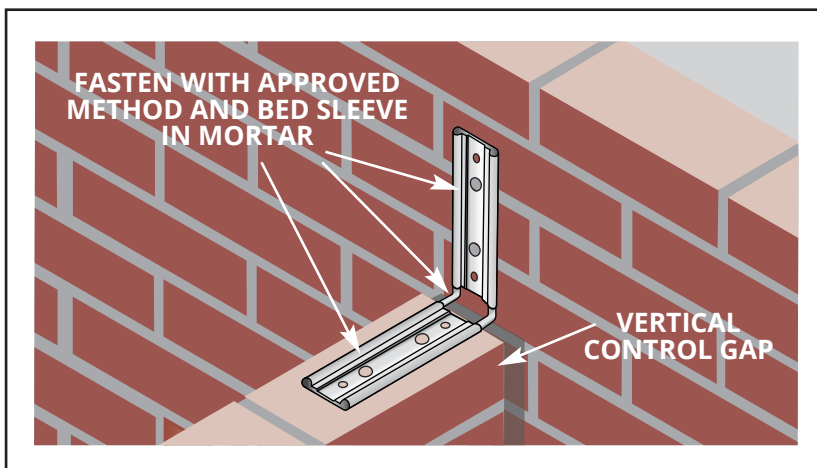Flexible Plastic Tubing to
Prevent Total Closure and
Mortar Bridging
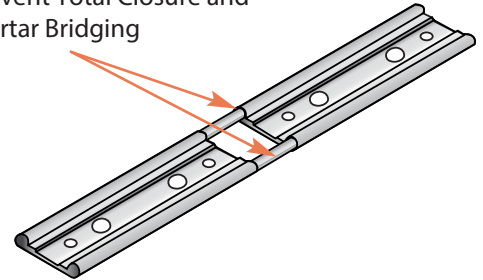
INTERSECTING SOLID MASONRY WALLS

BED SLEEVES
IN MORTAR

EXPANSION
JOINT

**Bent On-Site and
Sleeve Installed Level with Masonry**

Vertical
Control Joint

CONSTRUCTION OF NEW TO EXISTING WALLS

FASTEN WITH APPROVED
METHOD AND BED SLEEVE
IN MORTAR

VERTICAL
CONTROL GAP

Fasten to Existing Walls

Tie Opens When Wall
Shrinks Vertically
Tie Installed Closed

STEEL OR CONCRETE FRAME CONSTRUCTION

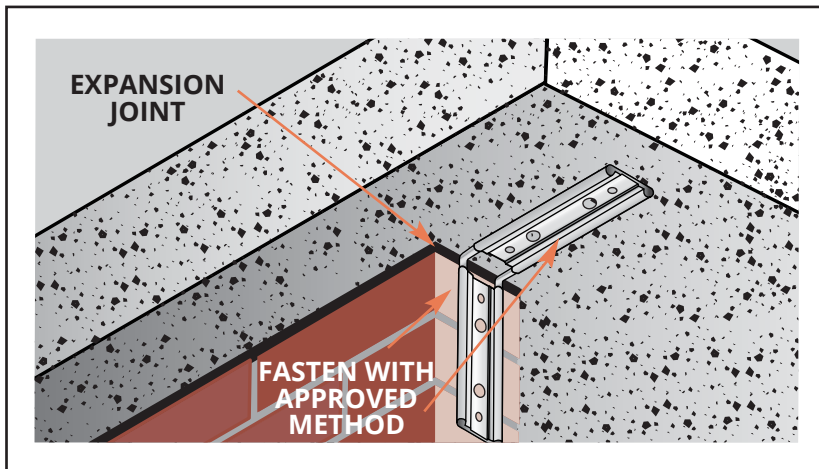FASTEN WITH APPROVED METHOD AND BED SLEEVE IN MORTAR

VERTICAL CONTROL GAP
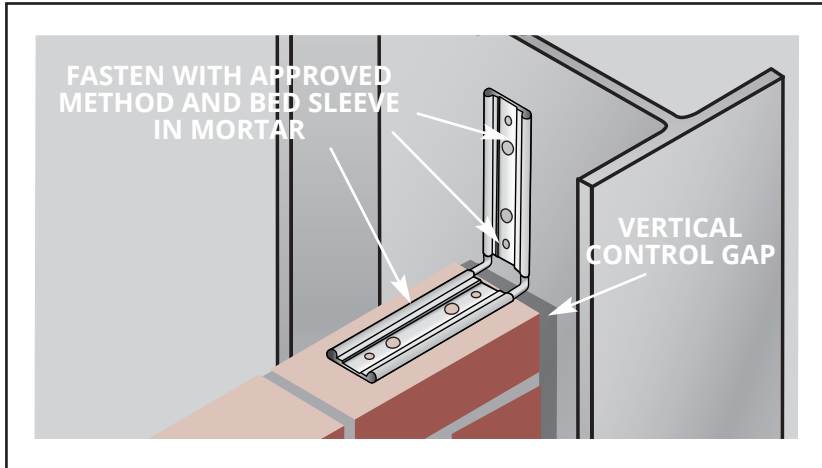
Vertical Control Gap

Use Approved Method of Attachment for Sleeve to Framing
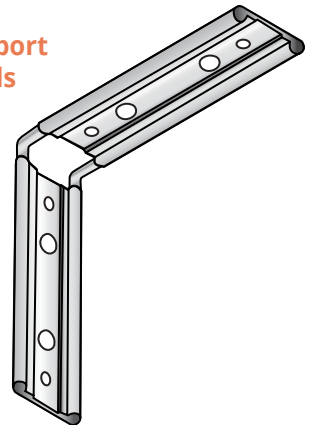
CONNECTION TO SLABS OR SPANDREL BEAMS
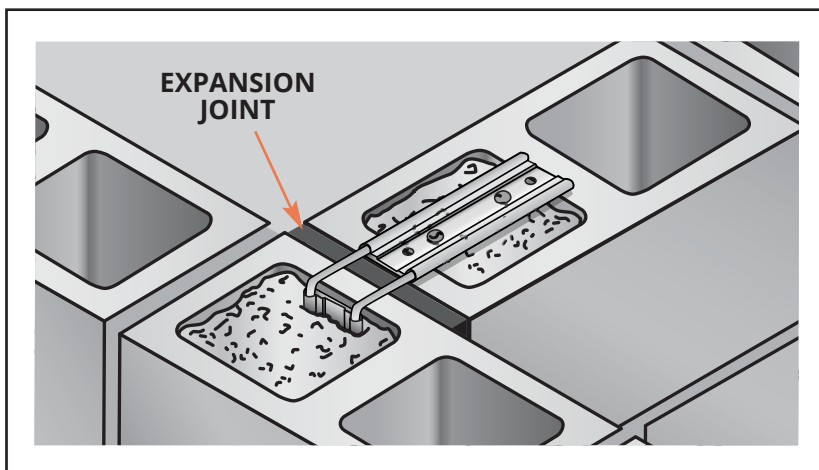
EXPANSION JOINT

FASTEN WITH APPROVED METHOD
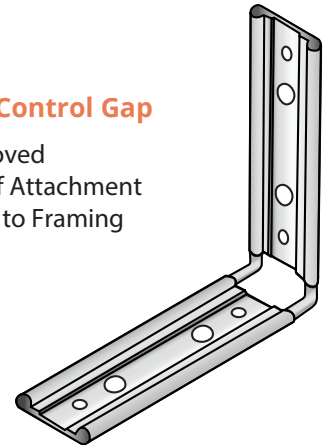
Provides Lateral Support for Single Wythe Walls Requiring Horizontal Soft Joint

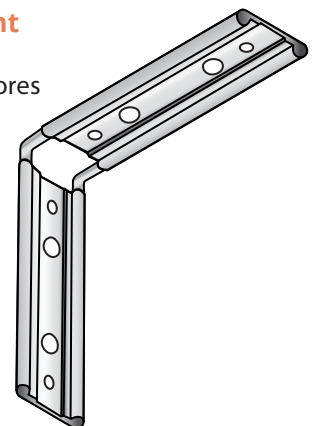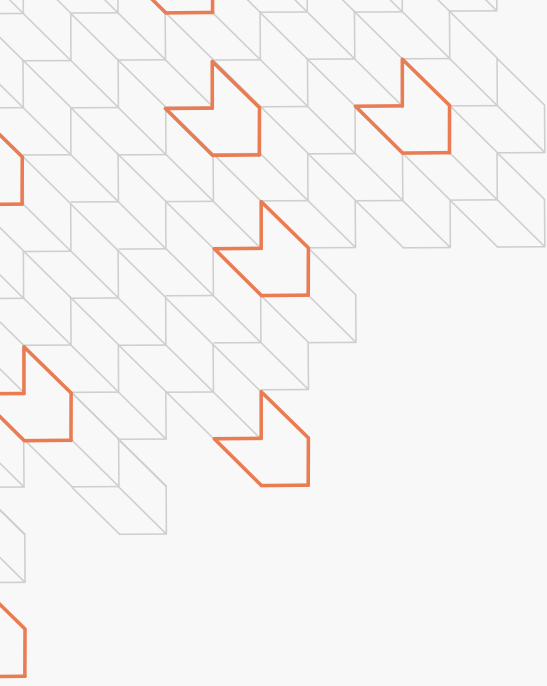Tie Opens When Wall Shrinks Vertically and Closes When Clay Brickwork Expands Vertically

INTERSECTING CMU WALLS - HOLLOW MASONRY UNITS

EXPANSION JOINT

Vertical Control Joint

Grout Fill to Hollow Cores

KELLY
Field Support
Our on-site service includes troubleshooting, training and installation support.

STEVE
Engineering Support
Engineering details and personalized solutions for your specific needs.

You. Us. The project.

We strive to provide the best construction products on the market, but we also know this business is about people. That's why we dedicate our human resources and services to make your job easier. Our nationwide network of sales representatives is here to do whatever we can to help solve your job-site problems.
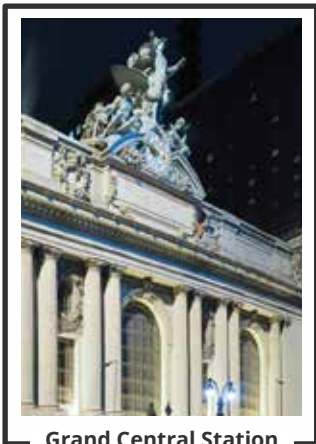
BRIAN
Field Support
We come to you to support your projects when and where you need us.

COLLEEN
Customer Care
We're real live people who answer the phones! Really. We're here M-F, 8a-5p, CST.
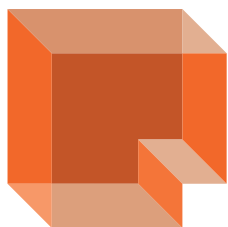
**Grand Central Station
New York, NY**

**Wrigley Building
Chicago, IL**

**United States Capitol
Washington D.C.**

**R.W. Kern Center
at Hampshire College**

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You. Us. The project.

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