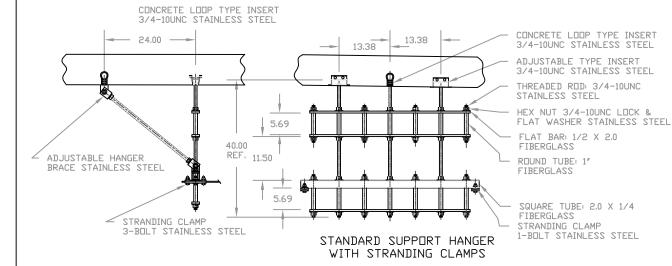
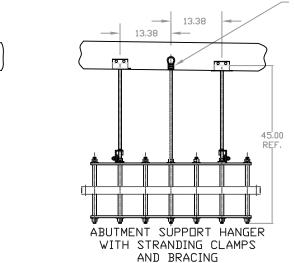
This drawing is the property of Condux International, Inc. and the information thereon is to be treated as confidential. It is not to be used, copied or disclosed to outside parties without our written consent





CONCRETE LOOP TYPE INSERT 3/4-10UNC STAINLESS STEEL

ADJUSTABLE TYPE INSERT 3/4-10UNC STAINLESS STEEL

> FOR INFORMATION ONLY WORK TO BE PERFORMED BY OTHERS WITH THE EXCEPTION OF PLACEMENT OF INSERTS INTO SUPERSTRUCTURE

NO PART OF THE CONDUIT SUPPORT HANGER CAN EXTEND BELOW THE BRIDGE DECK EXTENDED RODS MAY NEED TO BE ALTERED

DRAWING APPROVAL APPROVE THIS DRAWING FOR MANUFACTURING ALL MEASUREMENTS ARE IN INCHES UNLESS NOTED OTHERWISE

REVISIONS								
ZONE	REV	DESCRIPTION	DATE	APPROVED				
			•					

CURRENT BILL OF MATERIAL

ITEM NO.	PART NO.	DESCRIPTION	QTY	UNIT
1	26125F3S24	ABUTHENT CONDUIT SUPPORT HANGER: 2 HIGH X 6 WIDE FIBERGLASS AND STAINLESS STEEL, DPENING FOR EIGHT 5' FGL DUCTS THREADED RODS THREE @ 3/4-10UNC X 45.00 LONG	2	EA.
2 TBA		STANDARD CONDUIT SUPPORT HANGER: 2 HIGH X 6 WIDE FIBERGLASS AND STAINLESS STEEL, OPENING FOR EIGHT 5' FGL DUCTS THREADED RODS THREE @ 3/4-10UNC X 40.00 LONG	16	EA.
3	08610236	HANGER BRACE ADJUSTABLE: 36 INCH STAINLESS STEEL	6	EA.
4	08409990	CONCRETE INSERT: 3/4-10 LOOP TYPE, STAINLESS STEEL	24	EA.
5	08558300	CONCRETE INSERT SETTING PLUG: 3/4-10	24	EA.
6	TBA	A CONCRETE INSERT ADJUSTABLE: 3/4-10 STAINLESS STEEL		
7	08408950	STRANDING WIRE: 1/4 X 500 FT., STAINLESS STEEL	2	EA.
8	08409404	GUY STRAND CLAMP: 3-BOLT, STAINLESS STEEL	6	EA.
9	08409504	GUY STRAND CLAMP: 1-BOLT, STAINLESS STEEL	26	EA.
10	08460053	CONDUIT FIBERGLASS: 5' IPS, MW (5.57 D.D. X .096 WALL) MEETING NEMA TC-14A		FT.
11	08460153	CONDUIT STOP COUPLING: 5' IPS MW		
12	08460453	CONDUIT EXPANSION JOINT O-RING TYPE: 5' IPS MW	16	EA.
13	08460953	CONDUIT SPLIT STOP RING: 5' IPS MW	16	EA.
14	08461553	CONDUIT ADAPTER: 5' IPS MW TO 5' GRC	16	EA.
15	TBA	CONDUIT SWEEP: 5' IPS MW 11.25 DEGREE X 25FT RADIUS	16	EA.
16	08460253 CONDUIT 5 DEG. ANGLE COUPLING: 5' IPS MW			EA.
17	08463402	CONDUIT EPOXY ADHESIVE CARTRIDGE:	20	EA.
18	02288990	CONDUIT EPOXY ADHESIVE GUN	1	EA.

General Construction, Hanger and Conduit Notes

1.0 Recommended spacing between Support is 10 foot. 2.0 Support Hanger Material shall be manufactured using 316 stainless

steel and fiberglass components.

3.0 Conduit is 5 inch Fiberglass with minimum wall thickness of .096 inch meeting NEMA TC-14A Specs.
4.0 Conduit joints shall be positive locking adhesive bonded bell and

spigot. 5.0 Conduit expansion joints shall be sliding sleeve with provision for 8

6.0 Bridge abutments must have a block out or be sleeved to allow the fiberglass conduit to pass through. After conduit is placed through abutment seal up opening with state approved sealant.
7.0 Place concrete inserts for future support system. Hangers will be installed at a later date.

8.0 Conduit support hangers weight 870.00 LBS total Fiberglass conduit weight 1915.00 LBS total cable weight weight 11,710.00 LBS total

Grand total being placed on the bridge is 14,495 LBS.

CONDUIT SUPPORT HANGER DETAIL AND BILL OF MATERIALS	CONDUX INTERNATIONAL, INC. MANKATO MN PH. 800-533-2077					
DIEL DI MATERIALS		Project: Com Ed Harrison Street East Bridge over F.A.I. RTE NB 90/94 Dan Ryan Expressway, Cook County Illinois				
WEIGHT: 0.0 LBS EA	SIZE	FSCM NO.		DWG NO.	SHEET: CONDUX 3 OF 3	REV 0.0
QUOTE NO. 3985218599	SCALE	1/2	DATE:	12-09-2013	SHEET 142 OF 256	

Condux International, Inc. Support hanger meet the

following specifications Fiberglass items Flat Bar: ½ x 2.0 Round Tube: 1.0" D.D. .105 wall Square Tube: 2 x 2 x 1/4

Fiberglass reinforced with polyester resin with surface vell for better weathering, resin shall contains u.v. inhibitor. Fiberglass is made with continuous strand mat and uni-directional roving.

Tensile Strength (ASTM D 638) 30,000 PSI Tensile Modules (ASTM D 638) 2.3E6 PSI Flexural Strength (ASTM D 790) 30,000 PSI Flexural Modules (ASTM D 790) 2.3E6 PSI Compressive Strength (ASTM D 695 20,000 PSI Compressive Modules 1.4E6 PSI

Yield shear strength 2000 PSI Barcol hardness 50 Dielectric strength (ASTM D 149) 200 VPM Min. Stainless steel Hardware Items Threaded Rod

Threaded rod meets (ASTM/ASME B1.1)
(ASTM A307 Grade A) (Tensile Strength 60,000

Hexnut meets (ANSI/ASME B18.2.2) Material: 316 Stainless steel (ASTM F594)

Flatwasher meets (ANSI/ASME B18.22.1) Material: 316 stainless steel (ASTM F436)

Lockwasher meets (ANSI/ASME B18.21.1) Material: 316 Stainless steel (ASTM F436) Stranding Items

Stranding Clamps (1-Bolt & 3-Bolt)
Material: 1/4 x 1.5 (316 Stainless Steel) Stranding Wire Cable: ¼" Dia (7 X 19 Steel Aircraft) 304 Stainless Steel

Brucing Adjustable hanger attachment brackets Material: angle 2.5 × 2.5 × .25 (316 Stainlss