



All loading and design criteria supplied by customer is assumed accurate. Only the stated Design Assumptions were considered, and must be verified by the responsible Engineer of Record (EOR). The basis of Hilti component and connection design is the published data in the current Hilti Technical Guide, including material and cross-section properties, allowable load values, factors of safety, methods of calculation, and limiting factors. The EOR must verify suitability for any specific application, and the capacity of the supportive structure to receive the shown configuration and associated reaction loads. Modification to components and/or design may alter performance and must be evaluated by the EOR.

TYPICAL DETAIL TYPE:
CABLE TRAY SUPPORT

TYPICAL DETAIL DESCRIPTION:
BRACED CANTILEVER DOUBLE - VERTICAL

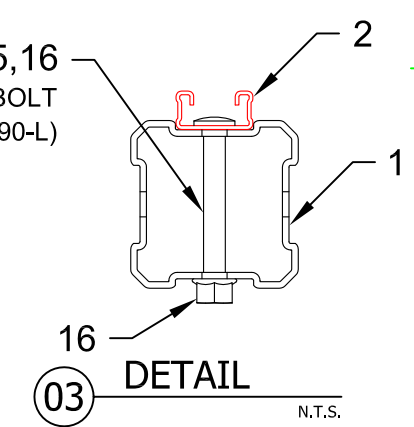
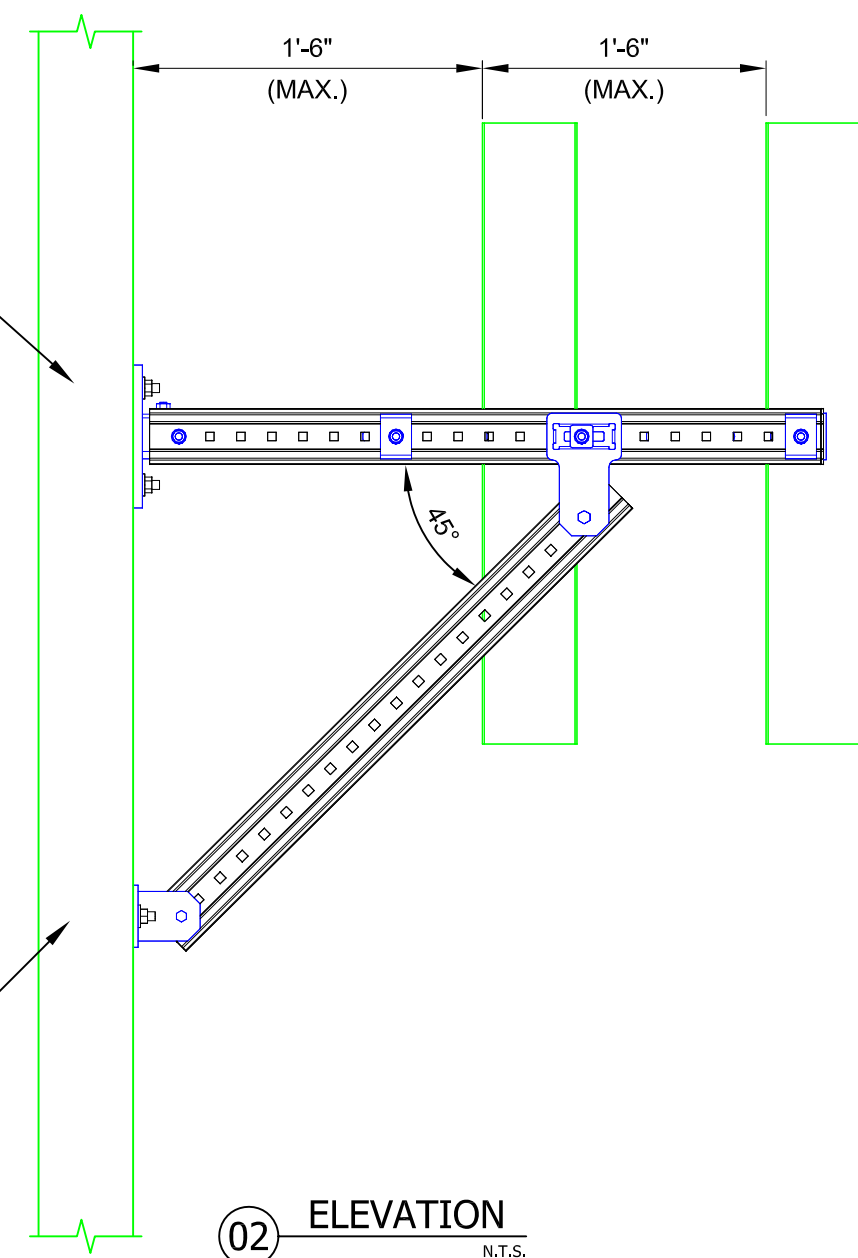
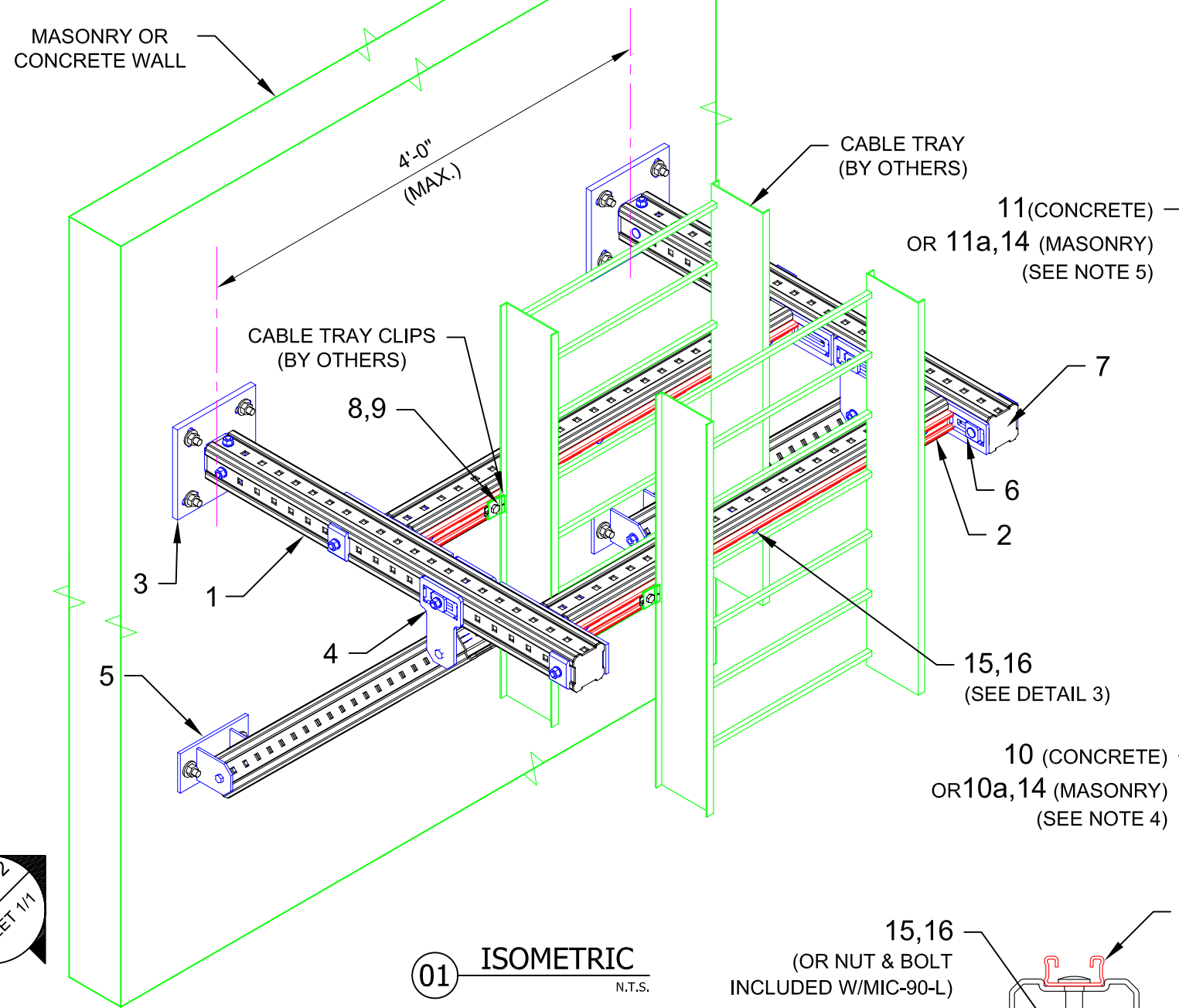
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|--------------------|--------------------------|
| DESIGNED BY: KL | REVIEWED BY: AJV |
| DRAWN BY: GAB | ISSUE DATE: 05 JAN 15 |

REVISIONS:

| NO. | DESCRIPTION: | DATE: |
|-----|----------------|-----------|
| A | ORIGINAL ISSUE | 05 JAN 15 |
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TYPICAL DETAIL NOMENCLATURE:
CT-BC04-C/M

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| DRAWING NUMBER: 01 | SHEET: 1/1 |
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NOTE(S):
1. PRELIMINARY NOT FOR CONSTRUCTION
2. DESIGN ASSUMPTIONS:
a. DESIGN LOADS (STATIC, U.N.O.):
DL: 1000 lbs. PER CABLE TRAY
b. LATERAL LOADS NOT CONSIDERED
c. CORROSION RESISTANCE REQ'D.: HDG
3. REFER TO COMPONENT MANUFACTURER'S IFUs FOR REQUIRED INSTALLATION INFO.
4. E.O.R. MUST BE NOTIFIED OF ANY DEVIATIONS FROM EXISTING/ NEW SUBSTRATE CONDITIONS SHOWN HEREIN TO VALIDATE ACCEPTANCE OF THIS HILTI DESIGN PRIOR TO INSTALLATION.
5. USE ALSO ITEM 12 FOR UN-GROUTED MASONRY.
6. MAX. ASSUMED DEAD LOAD OUT-PLANE ECCENTRICITY = 4in.
7. E.O.R. MUST VERIFY THE CAPACITY OF CONCRETE OR MASONRY TO SUPPORT IMPOSED LOADS..

ELEV. 02
SHEET 1/1

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|-----|----------|----|--|-----------|----------|-----------|
| 1 | AS REQ'D | EA | GIRDER MI-90 3M | 1 | AS REQ'D | 304798 |
| 2 | AS REQ'D | EA | STRUT MS-1316-12/HDG 9'-10" (3M) | 1 | AS REQ'D | 407569 |
| 3 | 2 | EA | CONNECTOR MIC-C90-D CONCRETE | 2 | 1 | 304827 |
| 4 | 2 | EA | CONNECTOR MIC-U-MA | 2 | 1 | 304806 |
| 5 | 2 | EA | CONNECTOR MIC-CU-MA CONCRETE | 4 | 1 | 304828 |
| 6 | 4 | EA | CONNECTOR MIC-90-L | 2 | 2 | 304805 |
| 7 | 2 | EA | GIRDER END CAP MIA-EC90 | 25 | 1 | 432077 |
| 8 | 4 | EA | WING NUT MQM-F3/8"-F | 25 | 1 | 304136 |
| 9 | 4 | EA | 3/8" HEX BOLT x LENGTH AS REQUIRED (HDG) | VARIABLES | AS REQ'D | SPECIAL |
| 10 | 4 | EA | KB3 HDG 1/2" X AS APPROPRIATE | VARIABLES | AS REQ'D | VARIABLES |
| 10a | 4 | EA | HAS-R 316 1/2" X AS APPROPRIATE | VARIABLES | AS REQ'D | VARIABLES |
| 11 | 8 | EA | KB3 HDG 5/8" X AS APPROPRIATE | VARIABLES | AS REQ'D | VARIABLES |
| 11a | 8 | EA | HAS-R 316 5/8" X AS APPROPRIATE | VARIABLES | AS REQ'D | VARIABLES |
| 12 | AS REQ'D | EA | HIT-SC 12X85 COMPOSITE SLEEVE | 20 | AS REQ'D | 375980 |
| 13 | AS REQ'D | EA | HIT-SC 16X85 COMPOSITE SLEEVE | 20 | AS REQ'D | 375982 |
| 14 | AS REQ'D | EA | HIT-HY 70 AS REQUIRED | VARIABLES | AS REQ'D | VARIABLES |
| 15 | 2 | EA | ONEHAND SCREW MIA-OH90 | 10 | 1 | 304889 |
| 16 | 2 | EA | PREVAIL TORQUE HEX NUT M12-F-SL-WS 3/4" | 100 | 1 | 382897 |

\\hilti.com\US\TEAMS\installations\Projects\TYPICALS\CABLE TRAY (CT)\CAD\CT-BC04-C.M.dwg 1/15/2015 10:20:26 AM