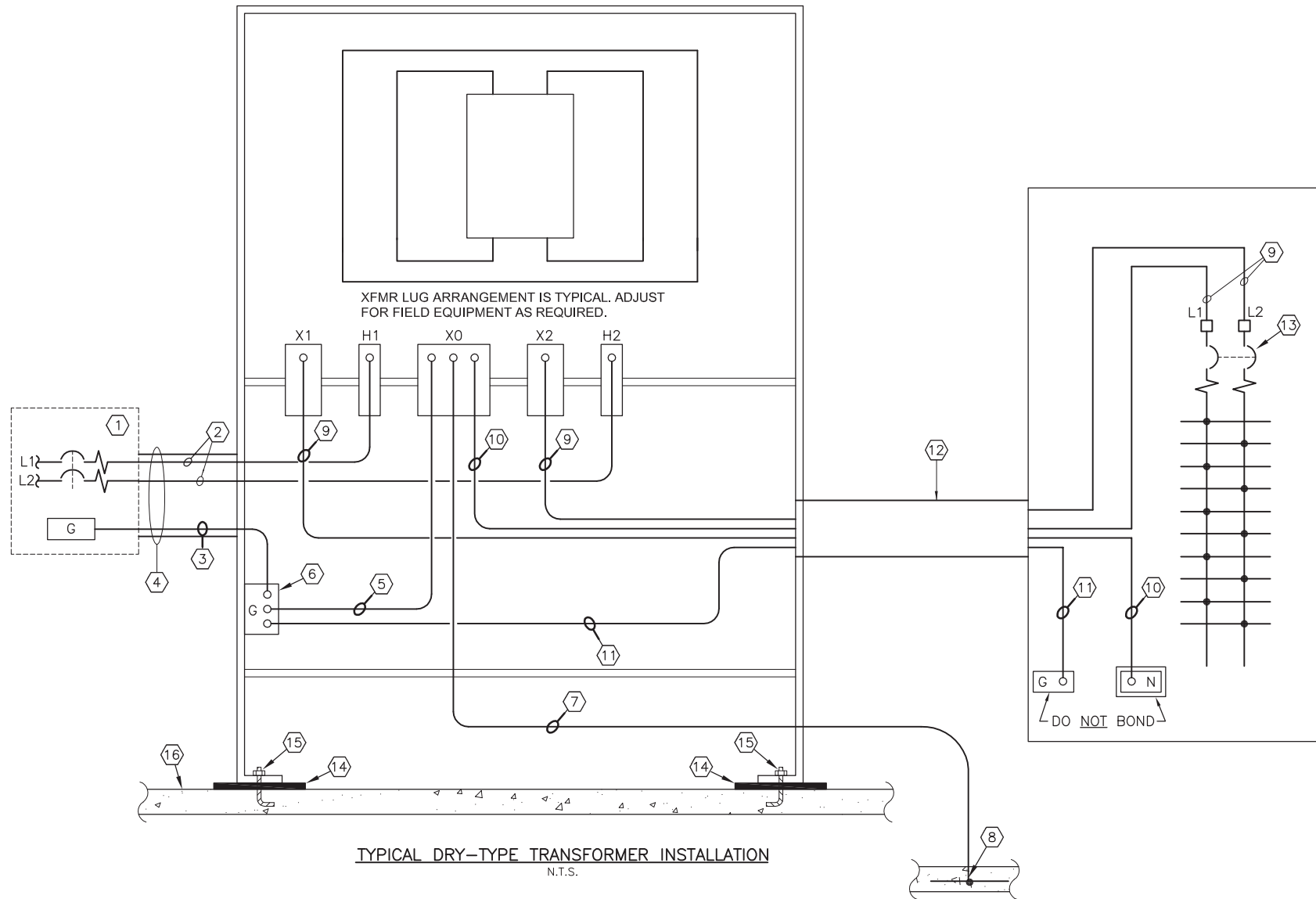


UN051

REVISIONS

NUMBER	BY	DATE

0 1 2
 THIS BAR IS EQUAL TO 2"
 AT FULL SCALE (34X22).



TYPICAL DRY-TYPE TRANSFORMER INSTALLATION
 N.T.S.

NOTES: TYPICAL DRY-TYPE TRANSFORMER INSTALLATION

- ① PRIMARY OVERCURRENT PROTECTION SIZED AS SHOWN ON ONE-LINE DIAGRAM, BUT IN NO CASE SHALL EXCEED NEC T450.3(B) REQUIREMENTS.
- ② PRIMARY PHASE CONDUCTORS, SIZED TO UPSTREAM OVERCURRENT PROTECTION UNLESS OTHERWISE SHOWN ON ONE-LINE DIAGRAM
- ③ PRIMARY EQUIPMENT GROUNDING CONDUCTOR (EGC) SIZED TO UPSTREAM OVERCURRENT PROTECTION & NEC T250.122 UNLESS OTHERWISE SHOWN ON ONE-LINE DIAGRAM.
- ④ PRIMARY FEEDER IN FLEXIBLE METAL CONDUIT PER NEC A348.
- ⑤ SYSTEM BONDING JUMPER (SBJ) SIZED PER NEC A250.30(A)(1), OR U.L. LISTED BONDING LINK.
- ⑥ TRANSFORMER CASE GROUND LUG(S).
- ⑦ GROUNDING ELECTRODE CONDUCTOR (GEC) PER NEC A250.30(A)(2).
- ⑧ GROUNDING ELECTRODE SYSTEM (GES) FOR SEPARATELY DERIVED SYSTEMS PER NEC A250.30(A)(7). "UFER" GROUND.
- ⑨ SECONDARY PHASE CONDUCTORS SIZED TO DOWNSTREAM OVERCURRENT DEVICE UNLESS OTHERWISE SHOWN ON ONE-LINE DIAGRAM.
- ⑩ SECONDARY NEUTRAL CONDUCTOR; SAME GAUGE AND INSULATION TYPE NOTED IN ITEM #9 ABOVE.
- ⑪ SECONDARY EQUIPMENT GROUNDING CONDUCTOR (ECG) SIZED TO DOWNSTREAM OVERCURRENT DEVICE UNLESS OTHERWISE SHOWN ON ONE-LINE DIAGRAM.
- ⑫ SECONDARY CONDUCTORS INSTALLED IN FLEXIBLE METAL CONDUIT PER NEC A348. MAXIMUM LENGTH 10' TO COMPLY WITH NEC A240.21(C)(2).
- ⑬ DOWNSTREAM OVERCURRENT DEVICE. DEVICE PROVIDES PROTECTION FOR TRANSFORMER SECONDARY AND "TAP" CONDUCTORS (PANELBOARD MAIN CIRCUIT BREAKER SHOWN). ARRANGEMENT SHOWN PROVIDES A "SEPARATELY DERIVED SYSTEM" AS DEFINED BY NEC. DO NOT BOND NEUTRAL-TO-GROUND IN ANY DOWNSTREAM EQUIPMENT UNLESS SPECIFICALLY NOTED. NEUTRAL BUS AND GROUND BUS IN ALL DOWNSTREAM EQUIPMENT SHALL BE KEPT ISOLATED.
- ⑭ RUBBER OR NEOPRENE VIBRATION PAD UNDER EACH TRANSFORMER LEG OR STRUT.
- ⑮ ANCHOR BOLTS, WASHERS & NUTS
- ⑯ CONCRETE HOUSKEEPING PAD 4" HIGH WITH 1" CHAMFERED EDGE.

WILLARD AIRPORT
 UNIVERSITY OF ILLINOIS
 NEW AIRFIELD LIGHTING VAULT
 NEW VAULT DETAILS 3

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DESIGN BY:	WDP
DRAWN BY:	CMT
CHECKED BY:	JEH
APPROVED BY:	JEH
DATE:	APRIL 20, 2012
JOB No:	11059-03
IL. PROJ. NO. CMI-4100 AIP PROJ. NO. 3-17-0016-XX	
SHEET 53 OF 60 SHEETS	