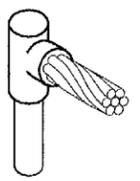
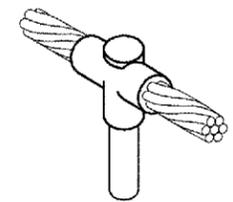


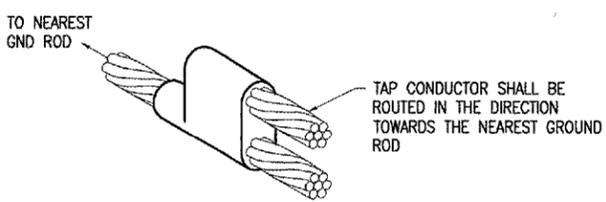
**CABLE TO GROUND ROD**



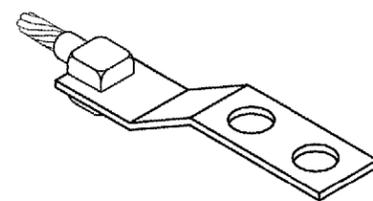
**CABLE TO GROUND ROD**



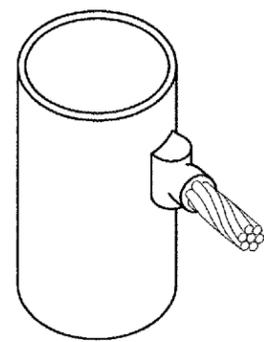
**CABLE TO GROUND ROD**



**CABLE TO CABLE HORIZONTAL PARALLEL TAP**



**CABLE TO LUG**

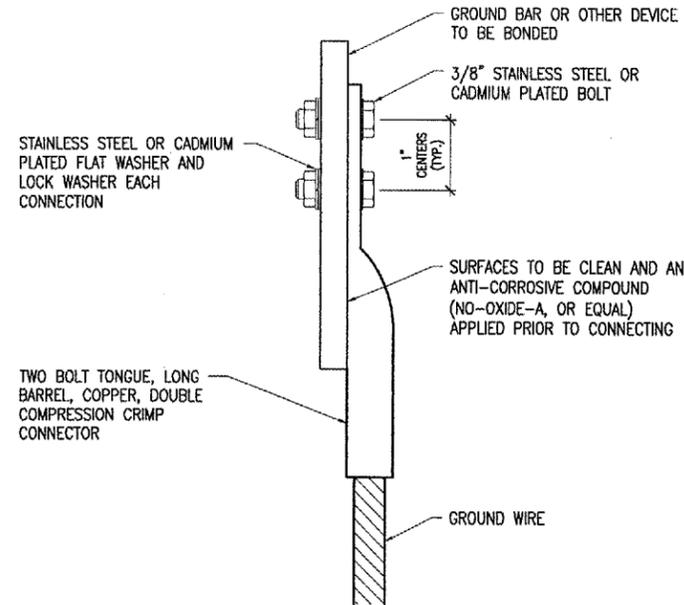


**CABLE TO PIPE OR STEEL LIGHT POLE**

**DETAIL NOTES**

- EXOTHERMIC WELDS SHALL BE CADWELD AS MANUFACTURED BY ERICO PRODUCTS, SOLON, OHIO, ULTRAWELD AS MANUFACTURED BY HARGER LIGHTNING PROTECTION & GROUNDING EQUIPMENT, GRAYSLAKE, IL, OR THERMOWELD AS MANUFACTURED BY CONTINENTAL INDUSTRIES, TULSA, OKLAHOMA. VERIFY PROPER SIZES, MOLDS, TYPES, AND REQUIREMENTS FOR THE RESPECTIVE APPLICATION WITH THE MANUFACTURER, AND INSTALL PER THEIR DIRECTIONS.
- FOR APPLICATIONS TO GALVANIZED STEEL OR PAINTED STEEL, REMOVE GALVANIZING AND/OR PAINT & CLEAN THE SURFACE TO EXPOSE BARE STEEL BEFORE MAKING EXOTHERMIC WELD CONNECTION.
- INDIVIDUAL GROUNDING ELECTRODE CONDUCTORS SHALL NOT BE INSTALLED IN METAL CONDUIT. INSTALL GROUNDING ELECTRODE CONDUCTORS IN SCHED 40 PVC CONDUIT AS REQUIRED IN FOUNDATIONS, FOR PROTECTION, WHERE ENTERING ENCLOSURES, ETC.

**EXOTHERMIC WELD DETAILS**



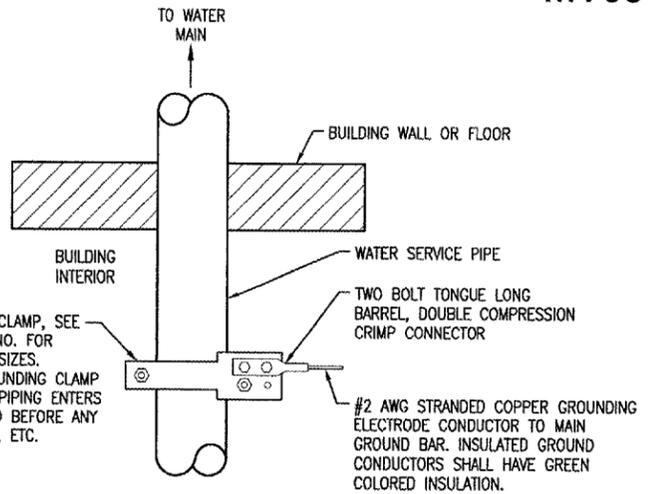
**2 HOLE LONG BARREL COMPRESSION LUG TABLE**

WIRE SIZE	BURNDY CAT. NO.	THOMAS & BETTS CAT. NO.
#6 AWG STRANDED	YA6C-2TC38	256-30695-1158
#2 AWG STRANDED	YA2C-2TC38	256-30695-1160
#1/0 AWG STRANDED	YA25-2TC38	256-30695-1162
#2/0 AWG STRANDED	YA26-2TC38	256-30695-1116
#3/0 AWG STRANDED	YA27-2TC38	54816BE

**NOTES**

- ALL CONNECTIONS TO GROUND BUS BAR SHALL BE WITH 2 HOLE TONGUE LONG BARREL COMPRESSION LUGS BOLTED TO THE BUS BAR.
- GROUND WIRE CONNECTIONS TO EQUIPMENT SHALL BE WITH 2 HOLE TONGUE LONG BARREL COMPRESSION LUGS BOLTED TO THE DEVICE OR WITH THE RESPECTIVE EQUIPMENT MANUFACTURER'S LUG OR TERMINAL WHERE APPLICABLE.
- GROUNDING ELECTRODE CONDUCTORS, BONDING JUMPERS, & INDIVIDUAL GROUND WIRES SHALL NOT BE INSTALLED IN METAL CONDUIT.
- ALL CONNECTIONS SHALL BE COATED WITH A CORROSION PREVENTATIVE COMPOUND (SANCHEM INC. NO-OX-ID "A-SPECIAL" OR APPROVED EQUAL) BEFORE JOINING. ALL COPPER BUS BARS SHALL BE CLEANED PRIOR TO MAKING CONNECTIONS TO REMOVE SURFACE OXIDATION. CLEAN SURFACES, OF RESPECTIVE DEVICES TO BE BONDED, TO BARE METAL, PER NEC 250-12.

**GROUNDING LUG CONNECTION DETAIL**



**PIPE GROUNDING CLAMP TABLE**

BURNDY CAT. NO.	PIPE SIZE
GAR3902TC	1/2" - 1"
GAR3903TC	1 1/4" - 2"
GAR3904TC	2 1/2" - 3 1/2"
GAR3905TC	4" - 5"
GAR3906TC	6"
GAR3907TC	8"
GAR3908TC	10"
GAR3909TC	12"

**NOTES**

- PROVIDE PIPE GROUNDING CLAMPS AT BOTH SIDES OF WATER METER WITH #2 AWG COPPER BONDING JUMPER ACROSS THE METER.
- FOR DAMP OR WET LOCATIONS USE PIPE CLAMPS WITH ALL BRONZE HARDWARE.

**WATER SERVICE PIPE GROUNDING DETAIL**

**WORK & DETAILS SHOWN ON THIS SHEET IS FOR BID ALTERNATE NO. 1 & BID ALTERNATE NO. 2**

MAR 30, 2006 2:20 PM DPE I:\AIRPORTS\MONTVERNON\819-06RWYD\AIRPORT\SHEETS\E-501.DWG - Work-FLR

DATE	REVISION	BY

MT. VERNON AIRPORT  
  
 MT. VERNON, ILLINOIS  
 I.L. PROJ.: MW-3539 A.I.P. PROJ.: 3-17-0074-B12

Proj. No. 819-06RWYD	Scale NONE	Date 12/16/05	LAYOUT KKL 11/30/05	REVIEWED CAH 12/14/05
Drawn E-501.DWG	Scale NONE	Date 12/16/05	DRAWN MW 11/30/05	

**HANSON**  
 Hanson Professional Services Inc.  
 1525 South Sixth Street  
 Springfield, Illinois 62703-2886  
 Chicago Nationwide

RUNWAY 15-33  
 P.F.C. OVERLAY  
 GROUNDING DETAILS