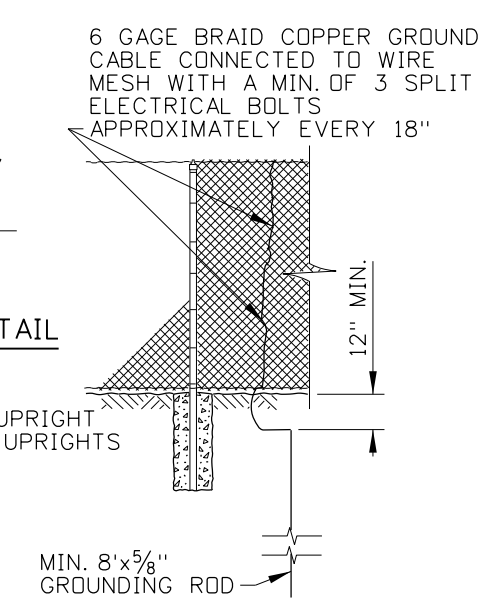
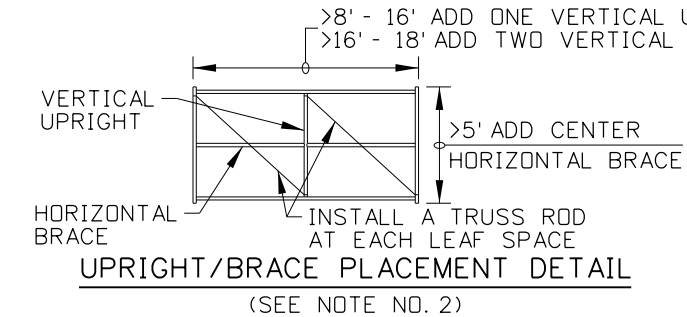
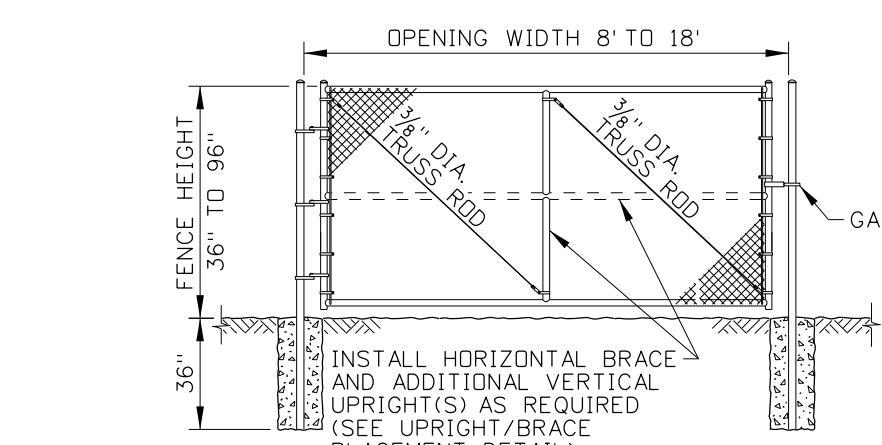
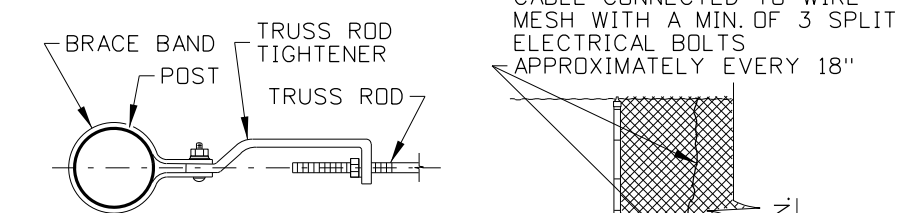
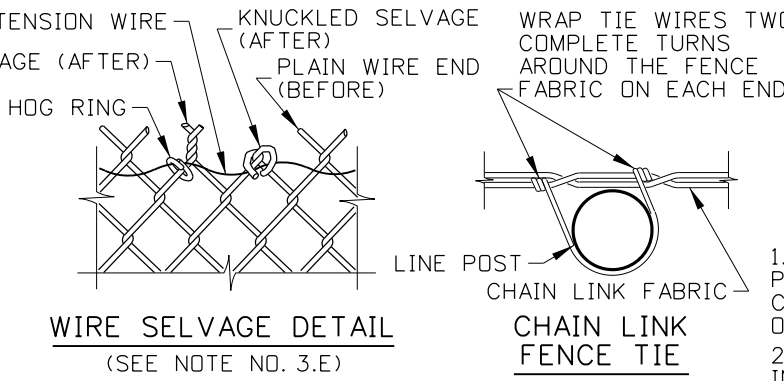
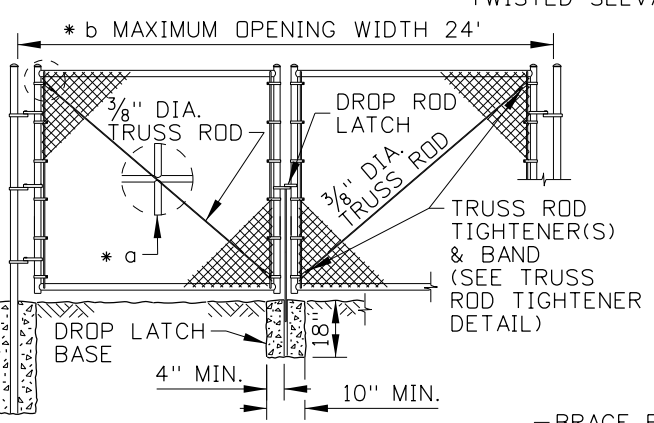
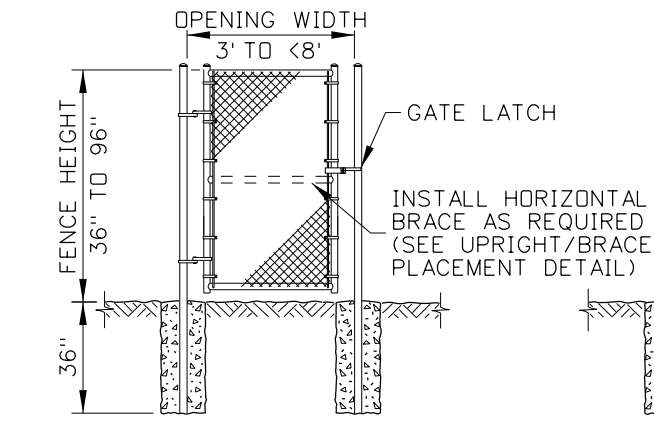


- * a INSTALL HORIZONTAL BRACE & VERTICAL UPRIGHT(S) AS REQUIRED (SEE UPRIGHT/BRACE PLACEMENT DETAIL)
- * b INSTALL TWO NARROW SINGLE OR TWO WIDE SINGLE LEAVES WITH DROP ROD FORK, GUIDE, & BASE.



CHAIN LINK DETAIL

NOTES

1. SHOP WELD TYPE 3 GATES. PAINT WELDS IN ACCORDANCE WITH 707.02, PAINT FORMULA NO. 2 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. THE TRUSS ROD TIGHTENER AND THE NON-TIGHTENING END OF THE TRUSS ROD MAY BE WELDED TO THE GATE.
2. SPACE THE VERTICAL UPRIGHT(S) EVENLY ON THE GATE LEAF AND INSTALL A TRUSS ROD(S) AS SHOWN ON THE UPRIGHT/BRACE PLACEMENT DETAIL. SPACE HORIZONTAL BRACE(S) EVENLY ON THE GATE LEAF.
3. CONSTRUCT CHAIN LINK FENCE IN ACCORDANCE WITH 708.13, CHAIN LINK FENCE OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
 - A. SPACE POSTS EQUAL DISTANCES APART. 10' MAXIMUM SPACING UNLESS OTHERWISE DIRECTED ON PLANS OR BY THE ENGINEER.
 - B. SECURELY FASTEN THE POST CAPS TO THE POSTS.
 - C. SECURELY FASTEN THE BRACE RAILS AND TRUSS RODS TO POST WITH BRACE BANDS WITH THREADED TAKE-UP ON THE TRUSS RODS.
 - D. STRETCH THE FENCE FABRIC SMOOTH SO THAT IT HAS A UNIFORM APPEARANCE.
 - E. SELVAGE THE PLAIN WIRE ENDS ON THE TOP AND BOTTOM OF THE CHAIN LINK FABRIC BY THE TWISTED OR KNUCKLED METHOD. SEE WIRE SELVAGE DETAIL.
 - F. SET THE POSTS IN CONCRETE UNLESS OTHERWISE DIRECTED ON THE PLANS.
4. ADJUST THE POST TOP ELEVATIONS TO PROVIDE A SMOOTH VISUAL FENCE PROFILE. INSTALL CORNER POSTS AT HORIZONTAL BREAKS IN THE FENCE OF 15° OR MORE.
5. THE DESIGN OF CHAIN LINK HARDWARE MAY VARY SOMEWHAT FROM THAT SHOWN. ENSURE THAT HARDWARE AND MATERIALS USED ON A SINGLE INSTALLATION ARE UNIFORM AND COMPATIBLE.

REVISIONS							
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE
1	1-97	MSM					
2	12-01	MSM					
3	1-04	MSM					
4	10-04	MSM					
5	12-12	RDL					

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
 CADD FILE NAME: f2d_0213.std
 DRAWING DATE: DECEMBER, 1993

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ORIGINAL SIGNED BY: LOREN THOMAS
 HIGHWAYS PROGRAM OVERSIGHT ENGINEER

ORIGINAL SIGNED BY: TOM COLE
 CHIEF ENGINEER

STANDARD DRAWING

CHAIN LINK FENCE FENCE TYPE 4

REQUIRES SHEET 2 OF 2

English






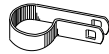













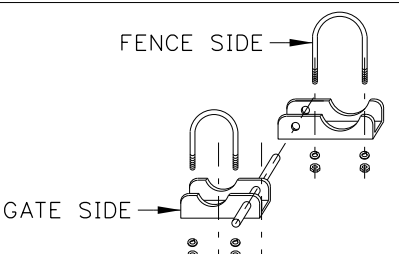
STANDARD DRAWING NO.

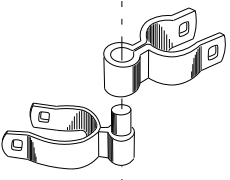
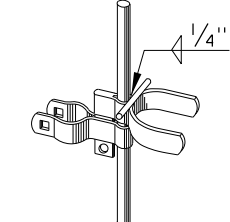
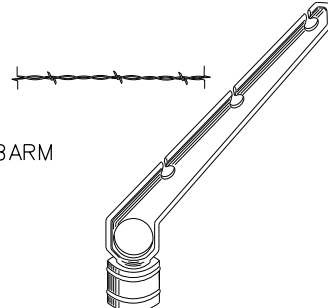
F-2-D

SHEET 1 OF 2

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

ORIGINAL SIGNED BY: RYAN D. LANCASTER
 DATE ORIGINAL SIGNED: JANUARY 31, 2013

HARDWARE ITEM DESCRIPTION	STANDARD REQUIREMENTS
BRACE POST 	(SEE NOTE NO. 3)
CORNER, END AND GATE POSTS 	(SEE NOTE NO. 3)
LINE POST (INTERMEDIATE POST) 	(SEE NOTE NO. 3)
POST CAP 	CAST NON-FERROUS ALLOY OR GALVANIZED PRESSED STEEL CAP MUST FIT SNUGLY ON POST AND GATE TOP
EYE-TOP CAP 	GALVANIZED PRESSED STEEL MIN. 3/32" THICKNESS OR GALVANIZED MALLEABLE FERROUS ALLOY
STRECHER BAR BAND 	CLASS 1 - MIN. 1/8" x 3/4" MIN. GALVANIZED STEEL CLASS 2 - MIN. 3/32" x 5/16" MIN. GALVANIZED STEEL
TENSION WIRE/BRACE BAND 	CLASS 1 - MIN. 1/8" x 3/4" MIN. GALVANIZED STEEL CLASS 2 - MIN. 3/32" x 5/16" MIN. GALVANIZED STEEL
BAND BOLT 	CLASS 1 - 5/16" DIA. x 1 3/4" GALV. CARRIAGE BOLT CLASS 2 - 3/8" DIA. x 1 1/4" GALV. CARRIAGE BOLT, (LOCK WASHER & FLAT WASHER FOR EACH BAND)
BRACE RAIL/TOP RAIL 	MIN. 1 3/8" DIA. (SEE NOTE NO. 3)
RAIL END 	GALVANIZED PRESSED STEEL OR GALVANIZED MALLEABLE FERROUS ALLOY MIN. 3/8" THICKNESS ON BACK BOLTING APPENDAGE
BRACE END 	GALVANIZED PRESSED STEEL OR GALVANIZED MALLEABLE FERROUS ALLOY MIN. 3/8" THICKNESS ON BACK BOLTING APPENDAGE
TRUSS ROD TIGHTENER 	CLASS 1 - MIN. 3/8" FORMED GALVANIZED STEEL CLASS 2 - MIN. 1/4" FORMED GALVANIZED STEEL
TRUSS ROD 	3/8" GALVANIZED, NC TREADED ROD, LOCK WASHER, & FLAT WASHER WITH TWO 90° BENDS OPPOSITE OF TREADED END
TOP RAIL SLEEVE 	GALVANIZED STEEL, NOT TO BE USED ON R/W FENCES, MUST MEET REQUIRED PIPE THICKNESSES
TENSION BAR 	CLASS 1 - MIN. 1/8" x 3/4" GALVANIZED STEEL CLASS 2 - MIN. 1/8" x 5/16" GALVANIZED STEEL
FENCE FABRIC 	2" GALVANIZED DIAMOND MESH STEEL FABRIC, (SEE NOTE NO. 3)
TIE WIRES 	MIN. 9 GAGE ALUMINUM WITH ONE HOOKED END
COIL TENSION WIRE 	MIN. 7 GAGE. (SEE NOTE NO. 3)
GATE FORK LATCH 	MIN. 1/8" GALVANIZED PRESSED STEEL OR MALLEABLE FERROUS ALLOY. ONE LATCH PER EACH SINGLE GATE WITH BENT MIN. 3/8" DIA. ATTACHMENT BOLT, WASHER & NUT.
HEAVY GATE HINGE 	MIN. 1/8" GALVANIZED PRESSED STEEL WITH TWO 3/8" U-BOLTS, LOCK WASHER & NUTS PER HINGE. USE 2 HINGES PER GATE LEAF UP TO 8' IN WIDTH AND 3 HINGES PER GATE LEAF WIDTHS GREATER THAN 8' (THESE HINGES ARE RECOMMENDED FOR MAINTENANCE & COMMERCIAL INSTALLATIONS).

HARDWARE ITEM DESCRIPTION (CON'T.)	STANDARD REQUIREMENTS
RESIDENTIAL GATE HINGE 	MIN. 1/8" GALVANIZED PRESSED STEEL WITH 3/8" DIA. x 3" CARRIAGE BOLTS, LOCK WASHER & NUTS PER HINGE. USE 2 HINGES PER GATE LEAF UP TO 6' IN HEIGHT AND 3 HINGES PER GATE LEAF HEIGHTS GREATER THAN 6'.
INDUSTRIAL DROP ROD FORK & GUIDE 	MIN. 1/8" GALVANIZED PRESSED STEEL. DROP ROD GUIDE INCLUDES 3/8" x 3" CARRIAGE BOLT WITH LOCK WASHER & NUT. DROP ROD FORK IS TO BE WELDED TO ROD & PAINTED WITH AN APPROVED ZINC RICH PAINT.
BARBED WIRE & 3-WIRE BARBARM 	BARBED WIRE: 14 GAGE SPACED GALVANIZED MEDIUM CARBON STEEL WIRE WITH BARBS SPACED AT 5" C. TO C. GALVANIZING SHALL CONFORM TO APPLICABLE A.S.T.M. DES. A-121-66 FOR ZINC-COATED & AASHTO M 280 SPECIFICATIONS. 3-WIRE BARBARM: BARBWARE ARM (ONE PIECE "Z" CUT) FITS 1 5/8" O.D. POST, 1 5/8" TOP RAIL" FITS 2" O.D. POST, 1 5/8" TOP RAIL" FITS 2 1/2" O.D. POST, 1 5/8" TOP RAIL" FITS 3" O.D. POST, 1 5/8" TOP RAIL"

kV	* GROUNDING INTERVAL	FENCE DISTANCE FROM TRANSMISSION £	FENCE TYPE
500	1, 1A, 2	<100'	4
500	1, 1A, 2	100' - 200'	4
345	1A, 2	<100'	4
345	1A, 2	100' - 150'	4
>230	1A, 2	50' - 100'	4
100-230	NONE	WITHIN R/W	4
<100	NONE	WITHIN R/W	4

* FENCE SECTIONS THAT ARE SHORTER THAN THE GROUNDING INTERVAL SHALL BE GROUNDED ONCE.

NOTES CON'T.

- THE MINIMUM FENCE HEIGHT IS 8' WHEN INSTALLING SECURITY FENCING USING THE 3-WIRE BARBARM & BARBED WIRE. INSTALL THE TOP RAIL ON SECURITY FENCES USING THE 3-WIRE BARBARM. DO NOT USE RAZOR WIRE WITH 3-WIRE BARBARM.
- THE ENGINEER MUST APPROVE CHAIN LINK HARDWARE PRIOR TO INSTALLATION.
- A TOP RAIL MAY BE USED ON CHAIN LINK FENCES CONSTRUCTED OUTSIDE OF THE HIGHWAY RIGHT-OF-WAY. THE TOP RAIL IS INCIDENTAL TO THE COST OF THE FENCE.
- LATH USED FOR VISUAL SCREENING, CANTILEVER GATES, ROLLER GATES, OR SPECIAL HARDWARE ITEM(S) AS SHOWN ON THE PLANS MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- GROUND CHAIN LINK FENCES IN ACCORDANCE WITH THE FENCE GROUNDING TABLE AND THE FENCE GROUNDING DETAIL. GROUND CHAIN LINK GATES WITH A FLEXIBLE GROUNDING CABLE ATTACHED FROM THE GATE FABRIC TO THE FENCE FABRIC ON THE HINGE SIDE OF THE GATE.
- NOT TO SCALE.

ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

ORIGINAL SIGNED BY:
RYAN D. LANCASTER
DATE ORIGINAL SIGNED:
JANUARY 31, 2013

NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	1-97	MSM						
2	12-01	MSM						
3	1-04	MSM						
4	10-04	MSM						
5	12-12	RDL						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
CADD FILE NAME: f2d_0213.std
DRAWING DATE: DECEMBER, 1993

IDAHO TRANSPORTATION DEPARTMENT



BOISE IDAHO

ORIGINAL SIGNED BY: LOREN THOMAS
HIGHWAYS PROGRAM OVERSIGHT ENGINEER

ORIGINAL SIGNED BY: TOM COLE
CHIEF ENGINEER

STANDARD DRAWING

CHAIN LINK FENCE FENCE TYPE 4

REQUIRES SHEET 1 OF 2

English

STANDARD DRAWING NO.

F-2-D

SHEET 2 OF 2