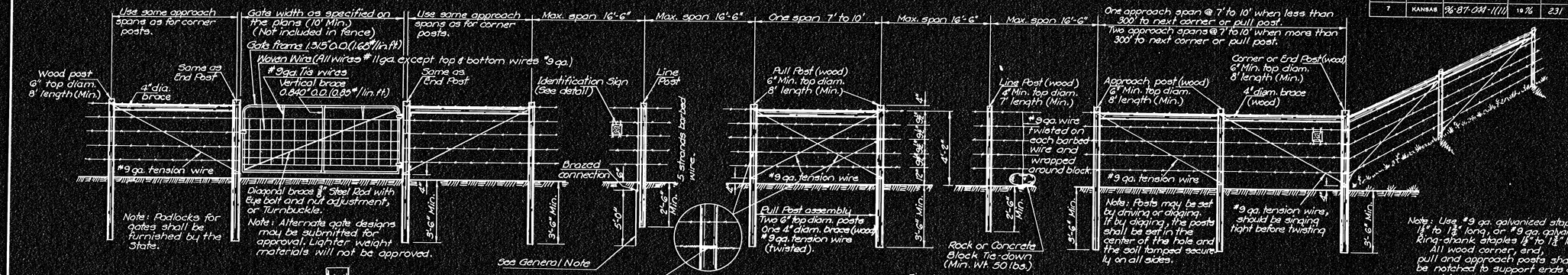
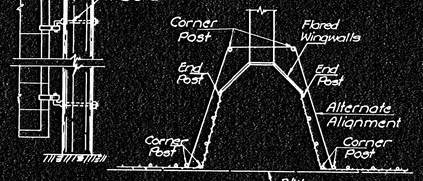
FHWA REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	KANSAS	96-87-04H-1(11)	19 76	231	567

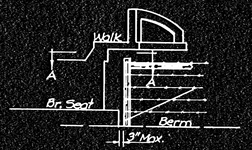


BARBED WIRE FENCE

Tie downs as shown above shall be used in valleys as directed by the Engineer. Tie downs shall be subsidiary to other fencing items.

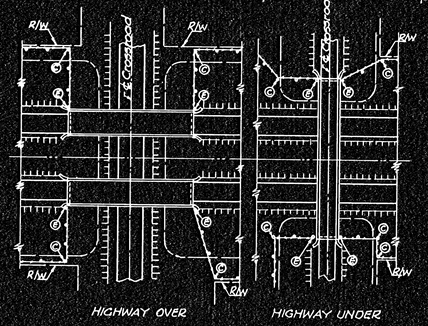
Where wood posts are used, both ends of all tension wires shall be wrapped around the posts twice and stapled in place.





ELEVATION

NOTE: The Alternate Alignment may be used at deep underfill culverts as directed by the Engineer.



FENCE ALIGNMENT AT BRIDGE ABUTMENTS

Ⓒ = Corner post
Ⓔ = End post

GENERAL NOTE:

Pull post assembly shall be used at sharp breaks in vertical grade, or at approximately 1,320 ft. centers on straight runs, or as directed by the Engineer.

All wood posts and braces shall be treated with creosote or pentachlorophenol in accordance with the requirements of the specifications.

Concrete used in fence installation shall be Class B and shall conform to the requirements of the specifications.

All steel posts, braces and gate frames shall be galvanized. Steel posts shall be provided with fasteners to prevent slippage of the wire strands.

Outside diameters shown for tubular steel posts, bracing and gate frames are nominal. Weight tolerances shall be as shown in the specifications.

When wood posts are used the fence shall be grounded by a 3/8" ϕ galvanized or copper coated rod five (5) feet long, driven vertically until the top is six (6) inches below the ground surface. A #6 solid copper conductor shall be securely fastened to each element of the fence by use of clamps or other suitable device. To be used at intervals of 175' (Max.).

In lieu of using the galvanized or copper coated rod as described above the contractor may at his option, use a steel line post at intervals not to exceed each 8th post.

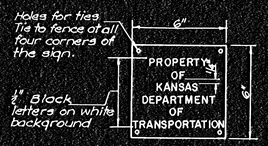
The galvanized or copper coated rod shall be used where power lines pass over the fence.

Barbed wire and tension wire shall be either zinc coated (galvanized) or aluminum coated.

Both ends of all wood posts shall be cut square with the axis of the post. Pointed posts will not be permitted.

All barbed wire shall be 12 1/2 gauge, 4 point barbs interlocked and wrapped around one main wire. Average spacing between barbs shall not be more than 3".

A line post shall be used at each cross fence, and the contractor shall make a temporary connection. This work shall be subsidiary to other bid items.

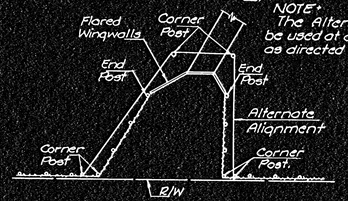


IDENTIFICATION SIGN

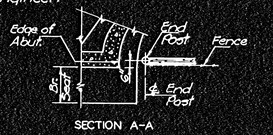
20 Ga. Metal

Front and back of Identification Sign to be painted white. Lettering as indicated in the above sketch to be applied on the white background in black color on both sides of the sign.

This sign is to be tied to the fence with twisted wire at each corner of the sign as shown and shall be placed at 300' to 500' intervals along the line of fence.



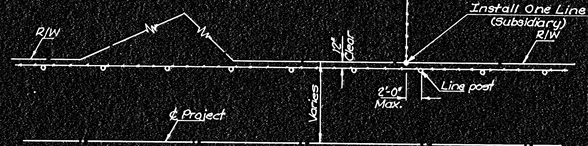
FENCE ALIGNMENT AT UNDERPASS OR CONCRETE BOX DRAINAGE STRUCTURE



SECTION A-A

FENCE DETAILS AT BRIDGE ABUTMENTS

Note: All fittings shall be galvanized in accordance with ASTM, A-153.

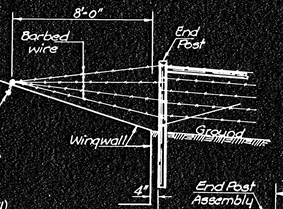


TYPICAL INSTALLATION DIAGRAM

Note: Right of Way fence shall generally be set parallel to and 12" clear from the Right of Way line.

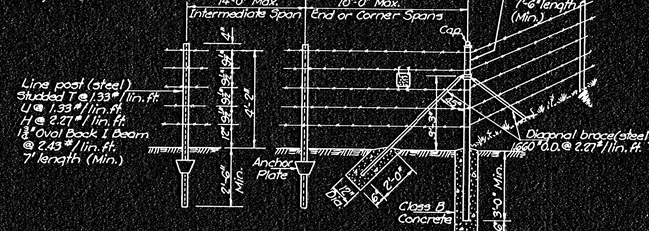
The alignment layouts as shown are typical, but are not representative of all situations that may occur. Construction may be varied as required to meet field conditions and/or as directed by the Engineer.

Private fence shall not be connected to the highway fence.



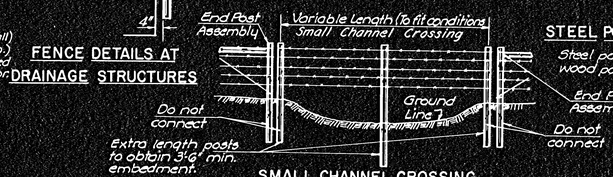
New Structures
One 1/2" ϕ x 2" (Overall) eyebolt with nut 2" (Min.) O.D. eye. To be installed by the drainage structure contractor.
Existing Structures
One 1/2" ϕ x 6" (Min. overall) anchor eyebolt 2" (Min.) O.D. eye. To be installed by the fence contractor.

FENCE DETAILS AT DRAINAGE STRUCTURES



STEEL POSTS (ALTERNATE)

Steel posts may be used in lieu of wood posts as shown above.



SMALL CHANNEL CROSSING

The above sketch is typical only and can be varied to fit existing conditions. Small channel crossings shall be included in lin. ft. of fence. All extra materials and labor within the small channel crossing shall be subsidiary to lin. ft. of fence. (Various types of fence)

NO.	DATE	REVISIONS	BY	APP'D
16	3-10-76	Revised Identification Sign	W.L.H.	L.R.P.
15	7-12-73	Rev. Small Ch. Crossing Note	W.L.H.	K.G.L.
14	6-71	Deleted Priv. Fc.-term.; added Line Po. at Cross. Fc.	W.L.H.	K.G.L.
13	4-67	Rev. Paint color on Identification Sign	A.L.R.	K.G.L.
12	1-67	Rev. wood posts present, fr. rock & barbed wi. notes	A.L.R.	K.G.L.

KANSAS DEPARTMENT OF TRANSPORTATION

HIGHWAY FENCE (BARBED WIRE)

STD. NO. 672.1

SHEET NO. ___ OF ___	SCALE: Not shown	APP'D:	4-23-62
DESIGNED W.A.B.	DETAILED W.A.B.	QUANTITIES	TRACED W.A.B.
DESIGN CK. K.G.L.	DETAIL CK. K.G.L.	QUAN. CK.	TRACE CK. K.G.L.