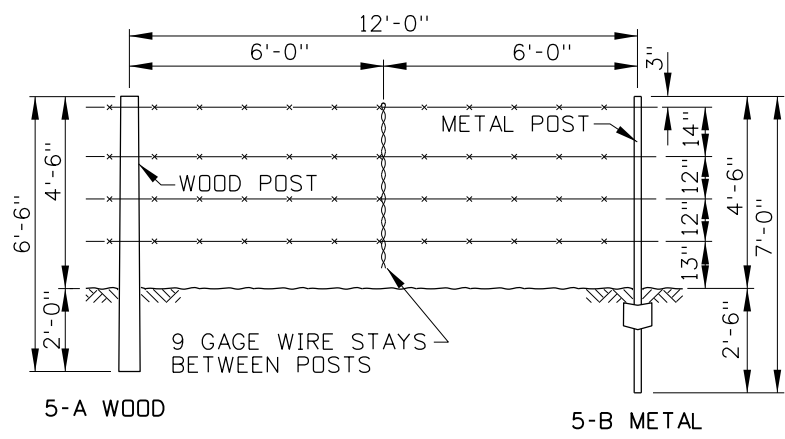


1-A WOOD

FENCE TYPE 1

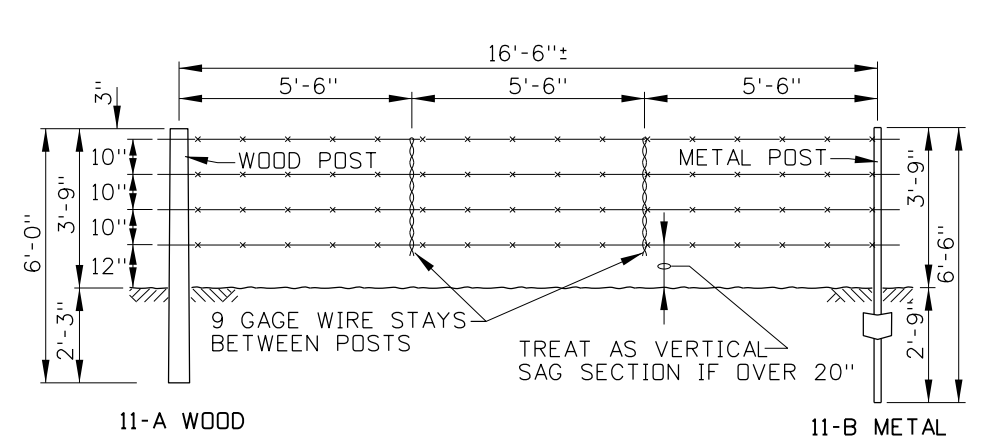
1-B METAL



5-A WOOD

FENCE TYPE 5

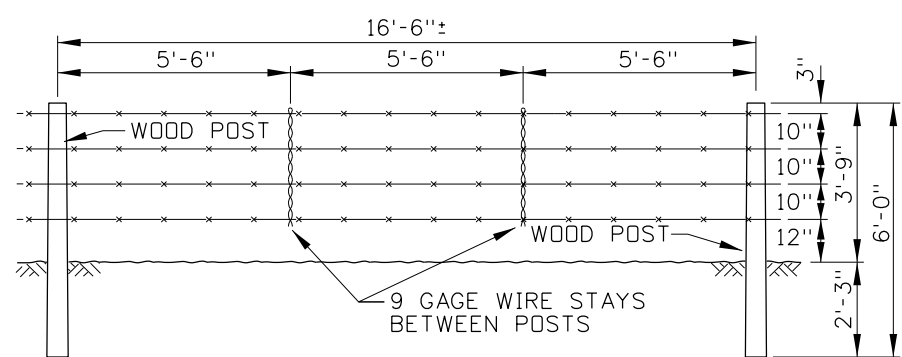
5-B METAL



11-A WOOD

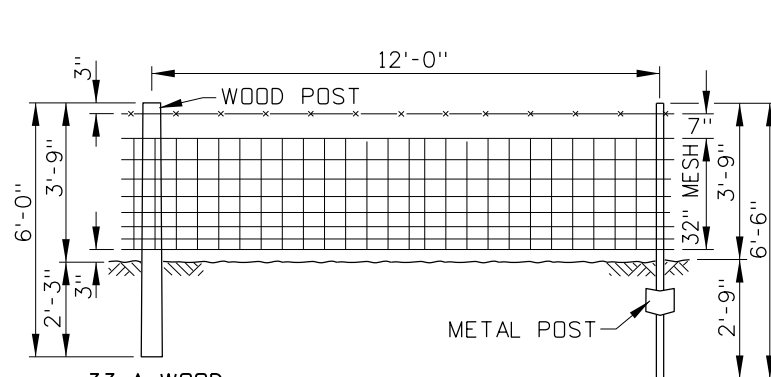
FENCE TYPE 11

11-B METAL



DROP FENCE TYPE 6

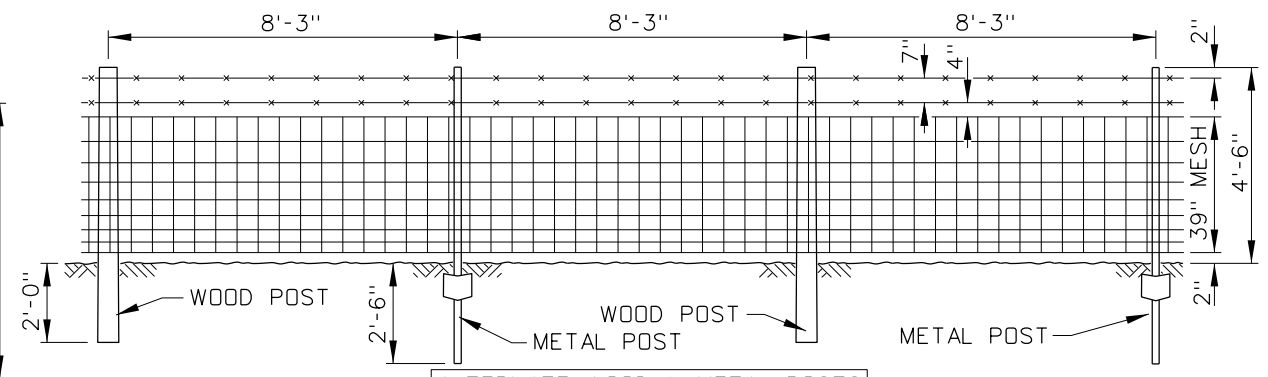
(SEE WOOD POST STAPLE DETAIL, SHEET 2 OF 3)



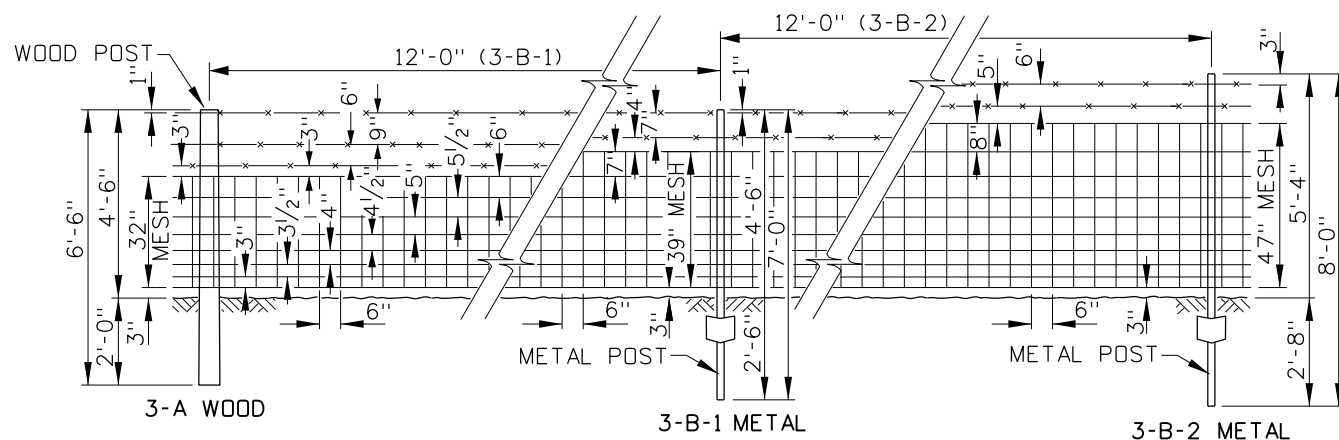
33-A WOOD

FENCE TYPE 33

33-B METAL



FENCE TYPE 2



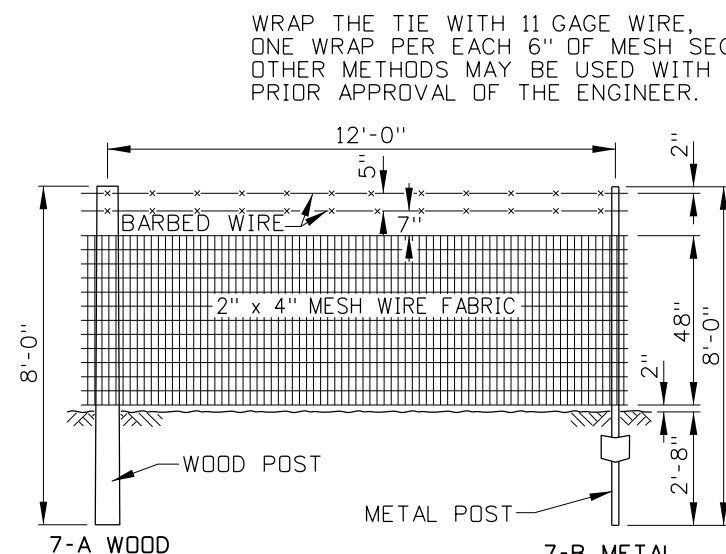
FENCE TYPE 3 WILL HAVE THE MESH HT. SHOWN AFTER THE POST MATERIAL SUFFIX i.e., TYPE 3-A (32"), OR TYPE 3-B-1 (39"), TYPE 3-B-2 (47").

FENCE TYPE 3

3-A WOOD

3-B-1 METAL

3-B-2 METAL

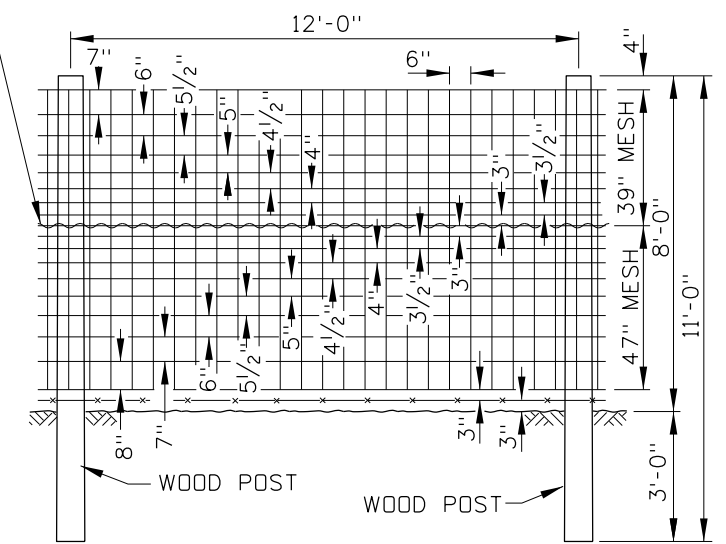


7-A WOOD

FENCE TYPE 7

7-B METAL

WRAP THE TIE WITH 11 GAGE WIRE, ONE WRAP PER EACH 6" OF MESH SECTION. OTHER METHODS MAY BE USED WITH PRIOR APPROVAL OF THE ENGINEER.



DEER PROOF FENCE TYPE 8

REVISIONS								
NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
16	9-10	PLR	6	3-80		11	1-97	MSM
17	12-12	RDL	7	7-84		12	11-00	MSM
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5	1-78		10	9-93	MSM	15	10-04	MSM

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 DRAWING DATE: FEBRUARY, 1973

IDAHO TRANSPORTATION DEPARTMENT



BOISE IDAHO

ORIGINAL SIGNED BY: LOREN THOMAS
 HIGHWAYS PROGRAM OVERSIGHT ENGINEER

ORIGINAL SIGNED BY: TOM COLE
 CHIEF ENGINEER

STANDARD DRAWING
STANDARD BARBED, WOVEN, MESH, COMBINATION WIRE FENCES, & FENCING DETAILS
 REQUIRES SHEETS 2 OF 3 & 3 OF 3

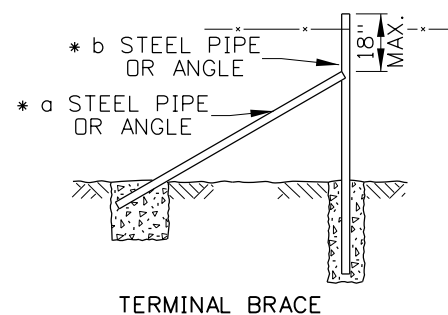
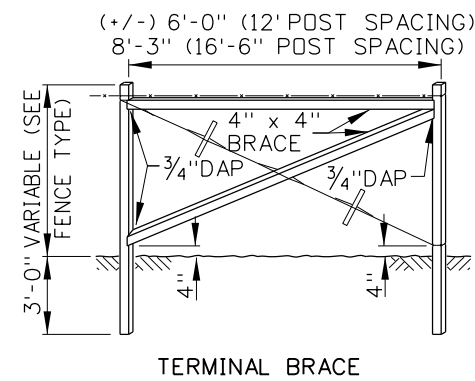
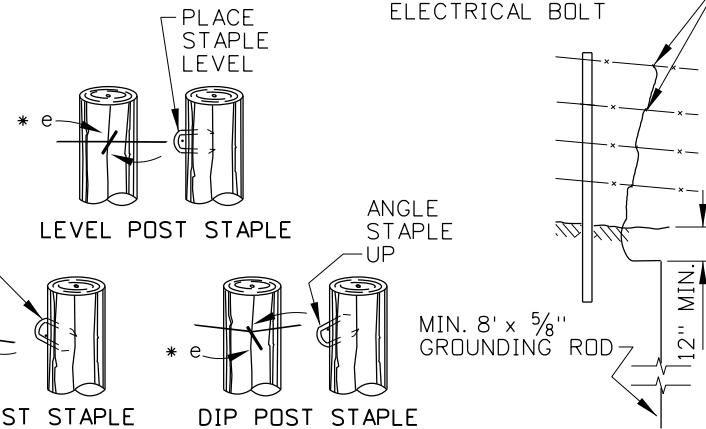
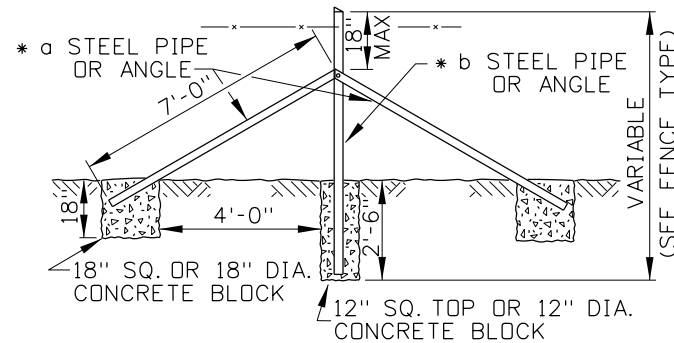
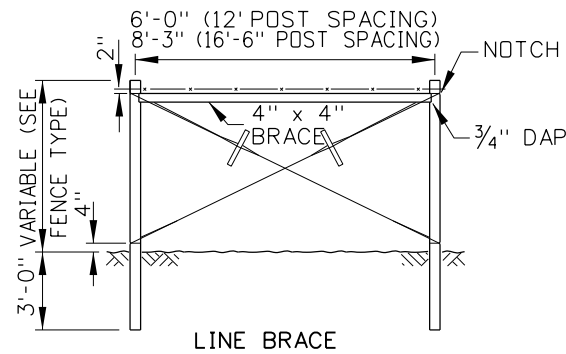
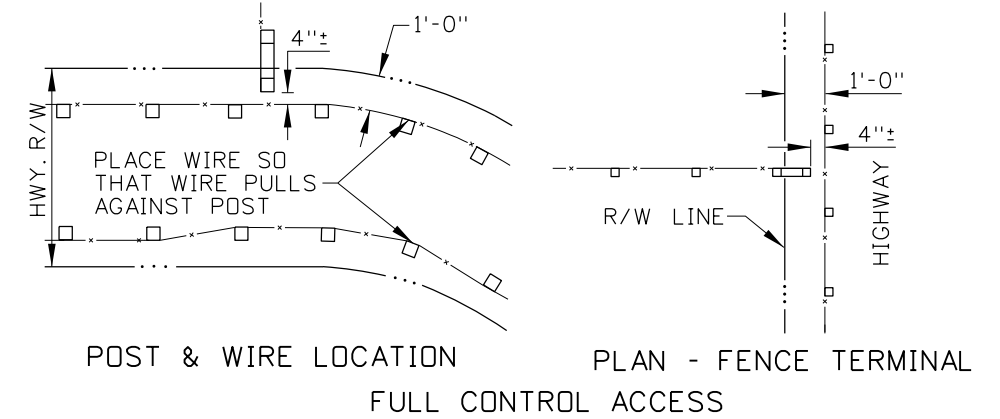
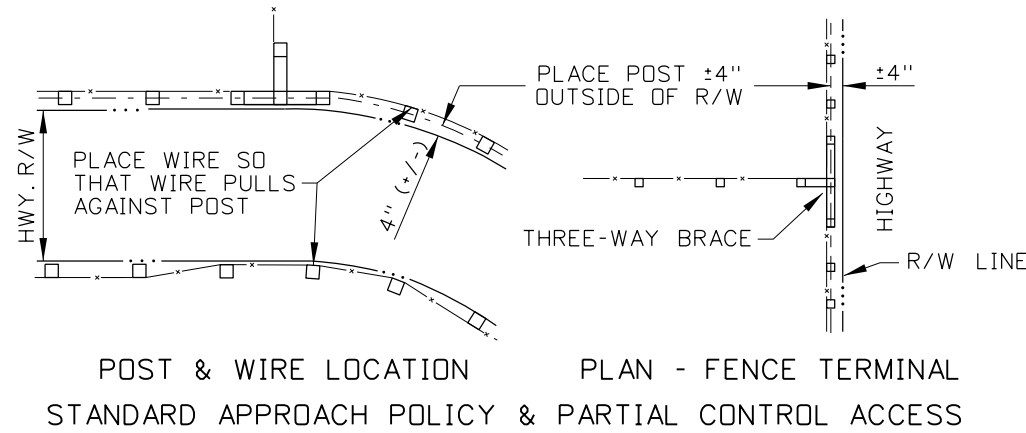
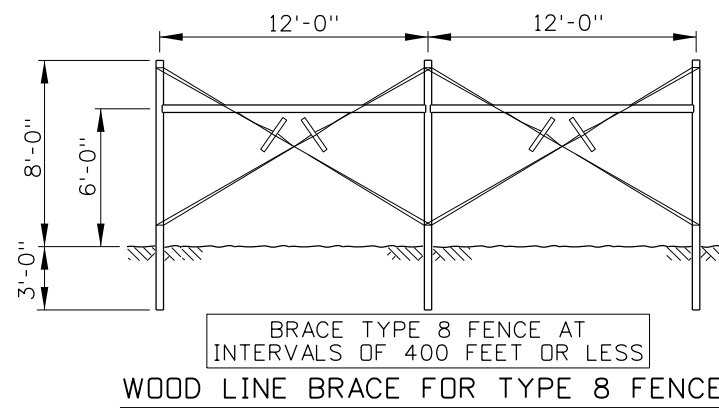
ORIGINAL STORED AT: ITD, Headquarters 3311 West State Boise, Idaho

English

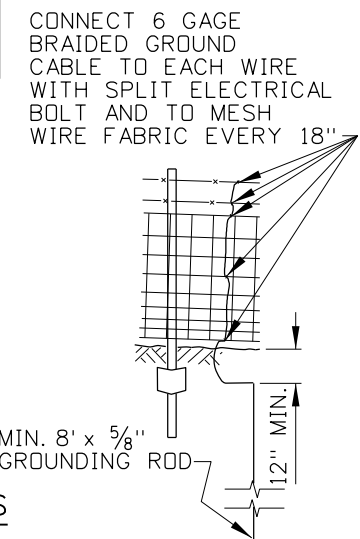
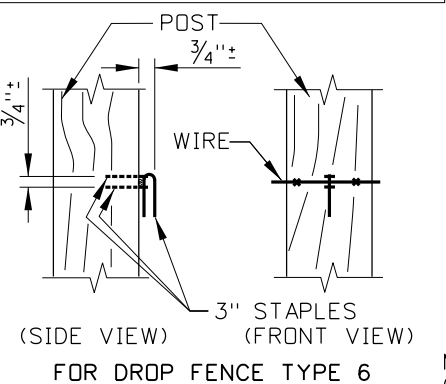
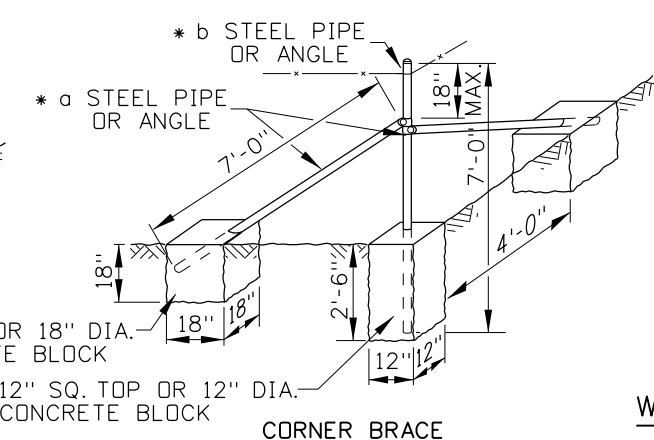
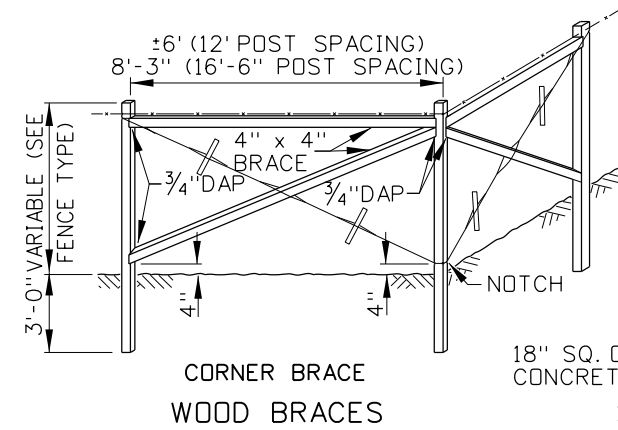
STANDARD DRAWING NO.
F-2-A

SHEET 1 OF 3

ORIGINAL SIGNED BY:
 RYAN D. LANCASTER
 DATE ORIGINAL SIGNED:
 DECEMBER 17, 2012



* e ROTATE STAPLE ON ALL POSTS TO STRADDLE ACROSS THE WOOD GRAIN & ALLOW ENOUGH SPACE FOR WIRE TO SLIDE THROUGH THE DRIVEN BACK OF THE STAPLE.



FENCE GROUNDING TABLE			
kV	* c GROUNDING INTERVAL	FENCE DISTANCE FROM TRANSMISSION £	FENCE TYPE
500	200'	0' - 100'	ALL
500	500'	100' - 200'	ALL
345	400'	0' - 100'	ALL
345	1000'	100' - 150'	ALL
>230	500'	50' - 100'	ALL
100-230	120'	WITHIN R/W	ALL
<100	NONE	WITHIN R/W	W/METAL POSTS
	1/4 Mi.	WITHIN R/W	W/WOOD POSTS

* c FENCE SECTIONS SHORTER THAN THE GROUNDING INTERVAL IN LENGTH SHALL BE GROUNDING ONCE.

NOTES

1. WHEN A FENCE LINE APPROACHES A DITCH, GULLY, OR DEPRESSION, PLACE THE LAST POST ON LEVEL GROUND CLOSE ENOUGH TO THE EDGE OF THE DROP-OFF THAT THE WIRE MAY BE STRUNG TO A POST IN THE DEPRESSION WITHOUT TOUCHING THE GROUND.
2. WHEN THE DEPTH OF A DEPRESSION ON A TYPE 1, 5, OR 11 FENCE EXCEEDS THE TOTAL VERTICAL WIRE SPACING OVER A MAXIMUM HORIZONTAL RUN OF 2 FENCE SECTIONS, CONSTRUCT AN EXTRA FENCE SECTION THROUGH THE DEPRESSION. EXTRA LINE BRACES AND A DEADMAN ARE TO BE INCLUDED IN THIS APPLICATION. SEE THE SPECIAL APPLICATIONS FOR BARBED WIRE FENCES DETAIL.
3. WHEN A TYPE 1 GATE IS USED IN A SPECIAL APPLICATION FOR BARBED WIRE FENCES, AS SHOWN ON THE DETAIL, EXTRA LINE BRACES AND THE ATTACHED UNDER TIMBER, WIRE, AND WIRE STAYS ARE INCLUDED. THE HORIZONTAL WIRES ON THE UNDER TIMBER ARE NOT TO BE STAPLED BUT WRAPPED AROUND BRACE POST TWICE, THEN AROUND THE WIRE ITSELF.
4. THE SPECIAL APPLICATIONS FOR BARBED WIRE FENCES DETAIL MAY BE USED FOR WOVEN WIRE AND MESH WIRE FENCE TYPES 2, 3, 7, AND 33 WITH PRIOR APPROVAL BY THE ENGINEER OR AS SHOWN ON THE PLANS. A TYPE 2 GATE SHOULD BE USED WITH THESE FENCES. BARBED WIRE MAY BE USED THROUGH THE DEPRESSIONS OR FEATURE. HOWEVER, THE WIRES MUST MATCH THE WOVEN/MESH WIRE SPACING AS PRACTICABLE. DO NOT ATTACH THE UNDER TIMBER TO A TYPE 2 GATE.
5. WHEN WOOD BRACES ARE USED AND THE EXTERIOR FENCE CORNER ANGLE EXCEEDS 30°, USE DOUBLE PANELS ON THE CORNER BRACE. INSTALL DOUBLE PANELS FOR LINE AND TERMINAL BRACES IN ACCORDANCE WITH THE FENCE BRACE TABLE.

* a 2" x 2" x 1/4" ANGLE OR 1.625" O.D. STD. STEEL PIPE BRACE.
* b 2 1/2" x 2 1/2" x 1/4" ANGLE OR 2.375" O.D. STD. STEEL PIPE POST.

METAL BRACES DETAILS

FENCE GROUNDING DETAILS

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ORIGINAL SIGNED BY: RYAN D. LANCASTER
DATE ORIGINAL SIGNED: DECEMBER 17, 2012

REVISIONS							
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3	2-74		8	5-90	GB	13	11-01
4	2-77		9	12-92	MSM	14	5-04
5	1-78		10	9-93	MSM	15	10-04

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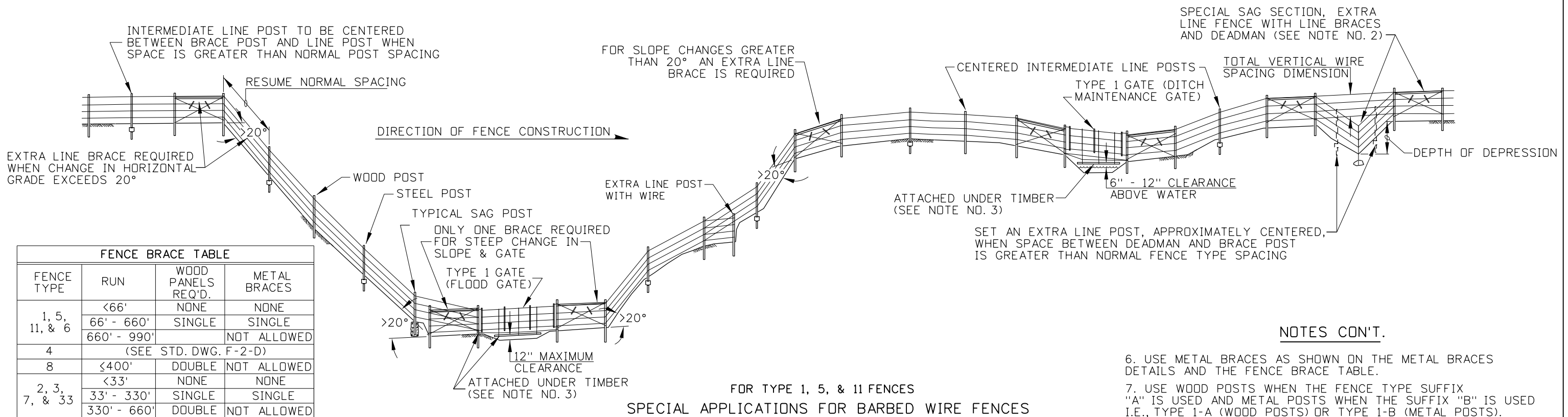
BOISE IDAHO

ORIGINAL SIGNED BY: LOREN THOMAS
HIGHWAYS PROGRAM OVERSIGHT ENGINEER

ORIGINAL SIGNED BY: TOM COLE
CHIEF ENGINEER

STANDARD DRAWING
STANDARD BARBED, WOVEN, MESH, COMBINATION WIRE FENCES, & FENCING DETAILS
REQUIRES SHEETS 1 OF 3 & 3 OF 3

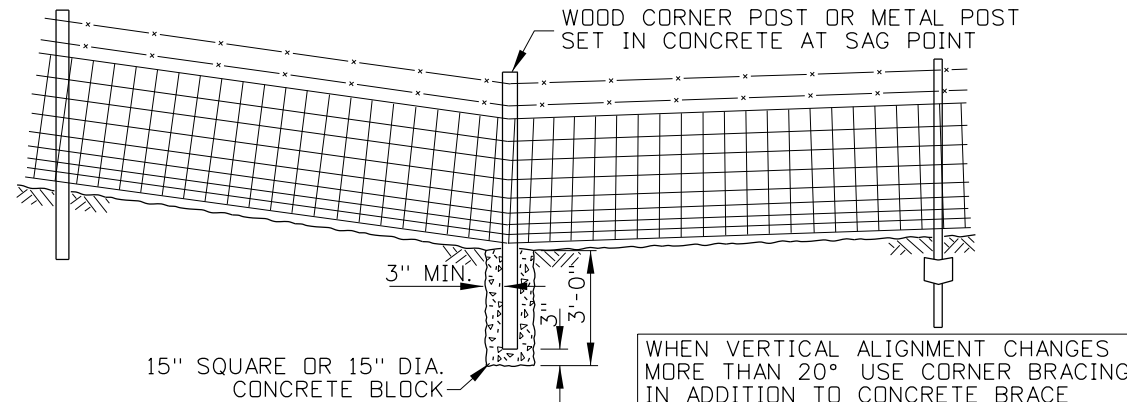
English
STANDARD DRAWING NO.
F-2-A
SHEET 2 OF 3



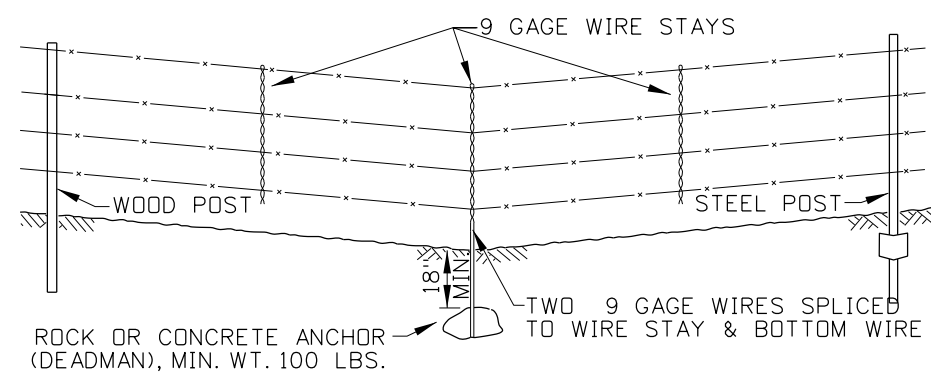
FENCE BRACE TABLE			
FENCE TYPE	RUN	WOOD PANELS REQ'D.	METAL BRACES
1, 5, 11, & 6	<66'	NONE	NONE
	66' - 660'	SINGLE	SINGLE
	660' - 990'		NOT ALLOWED
4	(SEE STD. DWG. F-2-D)		
8	≤400'	DOUBLE	NOT ALLOWED
2, 3, 7, & 33	<33'	NONE	NONE
	33' - 330'	SINGLE	SINGLE
	330' - 660'	DOUBLE	NOT ALLOWED

FOR TYPE 1, 5, & 11 FENCES
SPECIAL APPLICATIONS FOR BARBED WIRE FENCES

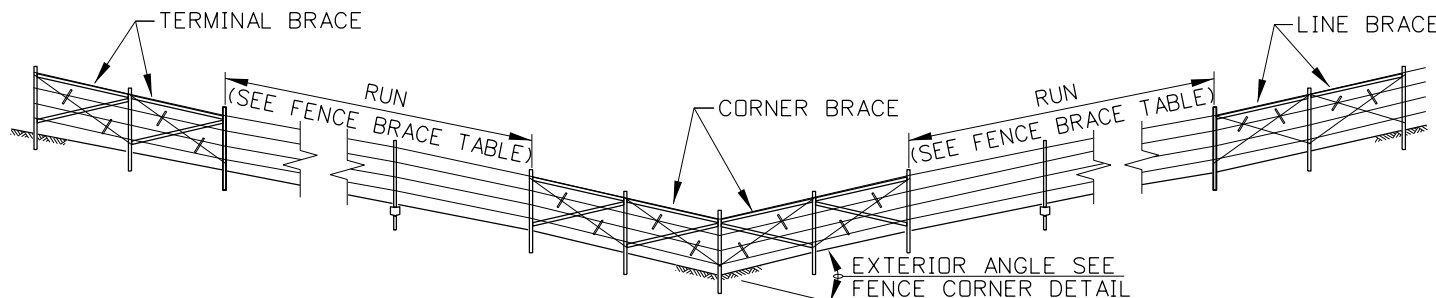
- NOTES CONT.**
- USE METAL BRACES AS SHOWN ON THE METAL BRACES DETAILS AND THE FENCE BRACE TABLE.
 - USE WOOD POSTS WHEN THE FENCE TYPE SUFFIX "A" IS USED AND METAL POSTS WHEN THE SUFFIX "B" IS USED I.E., TYPE 1-A (WOOD POSTS) OR TYPE 1-B (METAL POSTS).
 - STAPLE ALTERNATING MESH WIRES ON WOOD POSTS EXCEPT FOR SAG SECTIONS WHERE ALL WIRES WILL BE STAPLED. INSTALL FOUR WIRE CLAMPS PER POST FOR MESH WIRE ON STEEL POSTS SHALL EXCEPT IN SAG SECTIONS WHERE THREE ADDITIONAL CLAMPS PER POST ARE REQUIRED.
 - PLACE ONE STAPLE PER WIRE PER POST FOR BARBED WIRE ON WOOD POSTS AND TWO STAPLES PER WIRE PER POST ON BRACES IN SAG SECTIONS. SECURELY WRAP WIRE ENDS AROUND A POST AT A BRACE OR SPLICE IN LINE. PLACE ONE WIRE CLAMP PER WIRE PER POST FOR BARBED WIRE ON METAL POSTS.
 - ATTACH ANCHOR PLATES TO METAL POSTS UNLESS THE POST IS SET IN SOLID ROCK. GROUT DRILL HOLES FOR METAL POSTS SET IN SOLID ROCK.
 - ENSURE THAT THE TOP OF THE FENCE DOES NOT PROJECT ABOVE THE TOP OF THE PARAPET OR RAILING WHEN A FENCE TIES INTO A BRIDGE PARAPET OR RAILING.
 - CONSTRUCT WOVEN WIRE AND BARBED WIRE FENCES IN ACCORDANCE WITH SECTION 610 - FENCES AND CONSTRUCT METAL POSTS, BARBED WIRE, MESH WIRE, AND WOVEN WIRE IN ACCORDANCE WITH 708.09 THRU 708.12 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
 - GROUND BARBED, WOVEN, MESH, AND COMBINATION WIRE FENCES IN ACCORDANCE WITH THE FENCE GROUNDING TABLE AND THE FENCE GROUNDING DETAIL. GROUND TYPE 2 GATES FALLING WITHIN THESE AREAS WITH A FLEXIBLE GROUNDING CABLE ATTACHED TO THE GATE FABRIC. ATTACH THE CABLE TO A SEPARATE FENCE GROUNDING SYSTEM ON THE SWING SIDE OF THE GATE. DO NOT GROUND TYPE 1 GATES.
 - NOT TO SCALE.



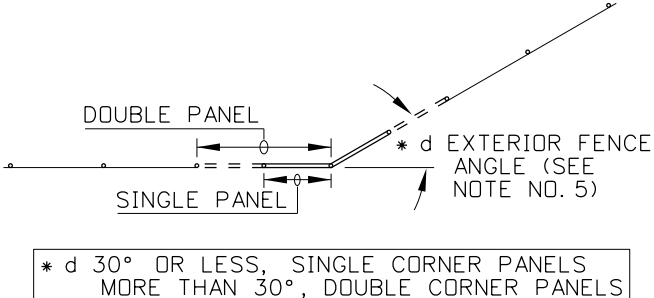
TYPICAL SAG SECTION FOR WOVEN WIRE, MESH, OR COMBINATION FENCES



TYPICAL SAG SECTION - BARBED WIRE FENCES



DOUBLE BRACE PANELS



FENCE CORNER ANGLE

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

ORIGINAL SIGNED BY: RYAN D. LANCASTER
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STANDARD BARBED, WOVEN, MESH, COMBINATION WIRE FENCES, & FENCING DETAILS
 REQUIRES SHEETS 1 OF 3 & 2 OF 3

English
 STANDARD DRAWING NO.
F-2-A
 SHEET 3 OF 3