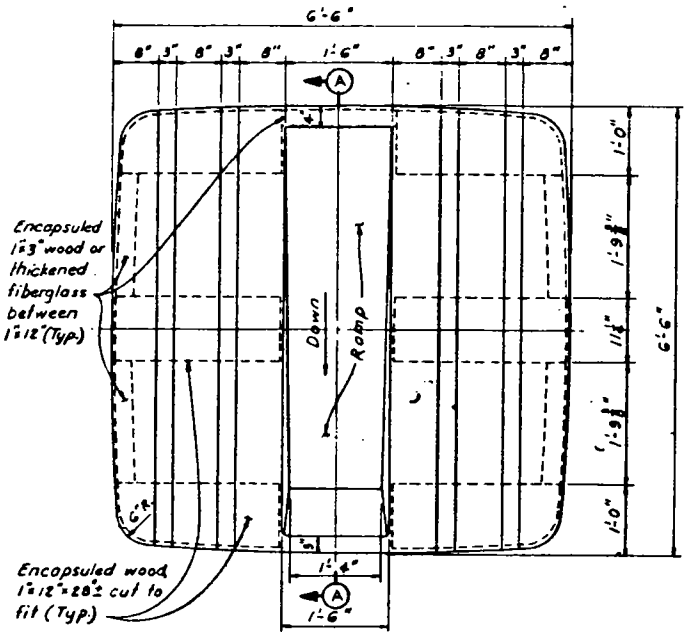
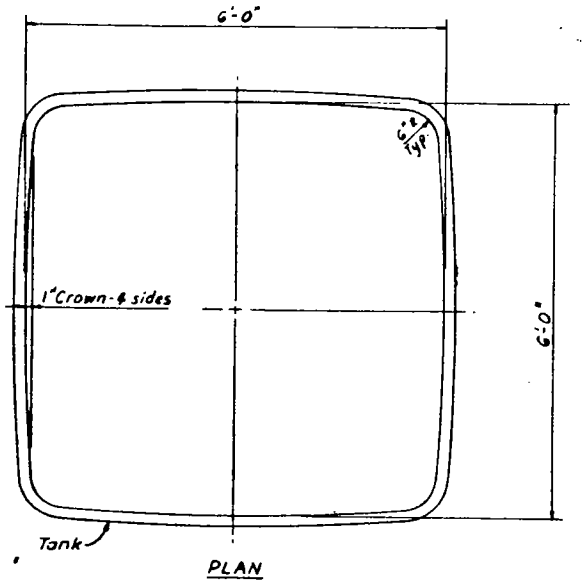
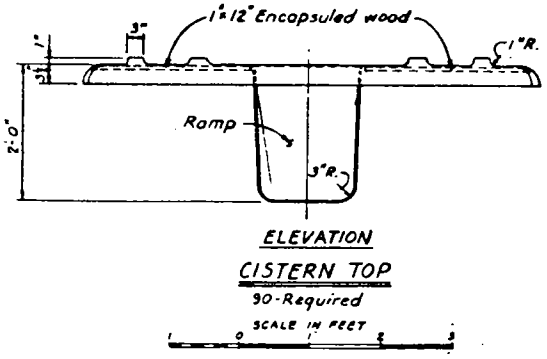
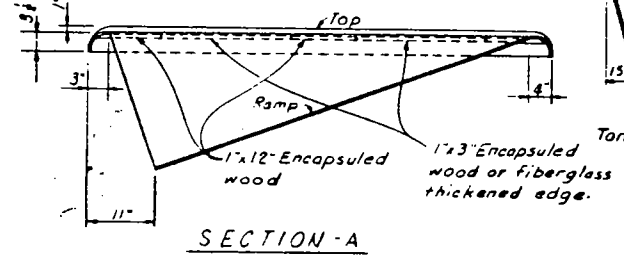
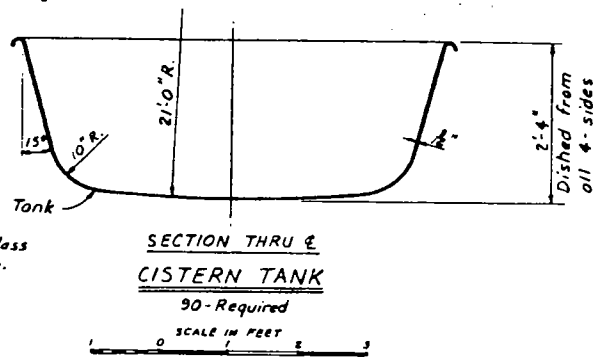










1"x12" Encapsu

See Detail "G"

3½"

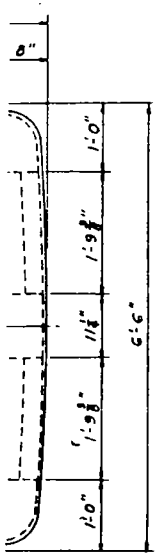
NOTES:
1. Ramp
2. All p
3. Color
4. All B
5. Fiber Too
6. Reinf in fi
7. Dime no le
8. The f

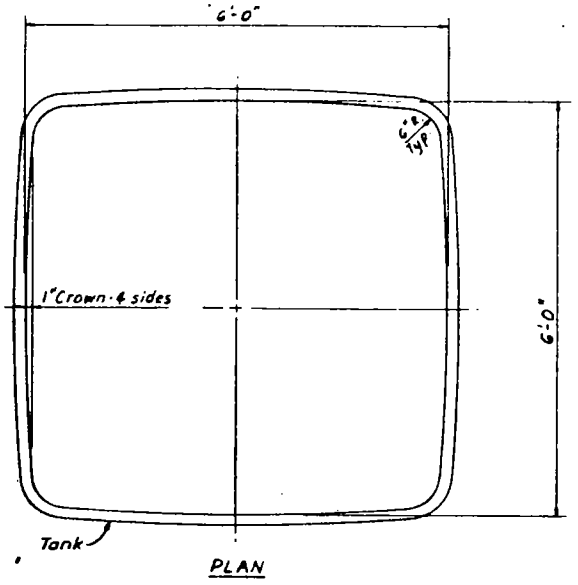
STATE OF WASHINGTON
DEPARTMENT OF GAME

GUZZLER
Self-Filling

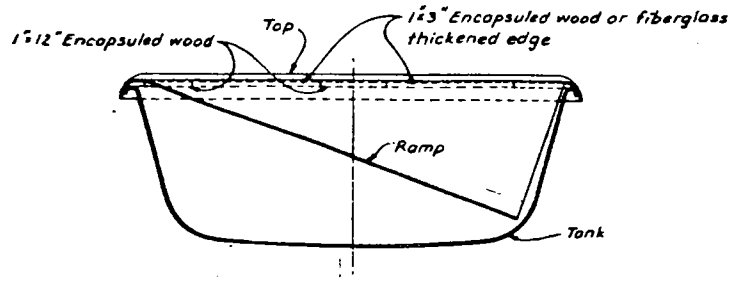
Designed By: Ted Johnson

Figure 1

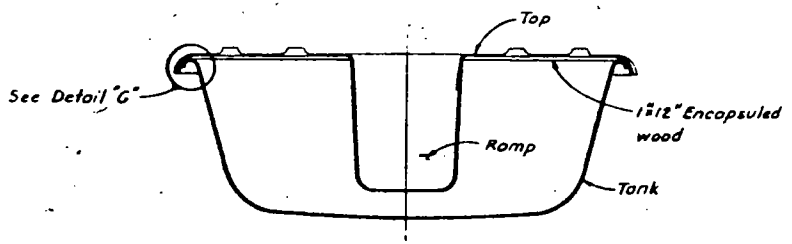




PLAN

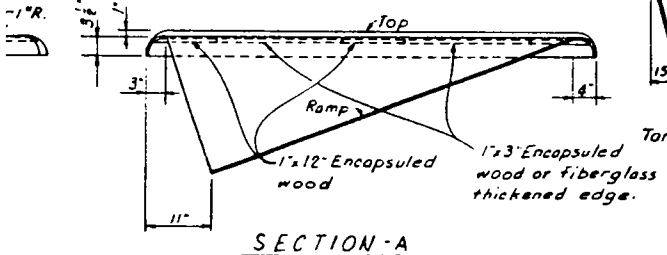


SECTION THRU RAMP

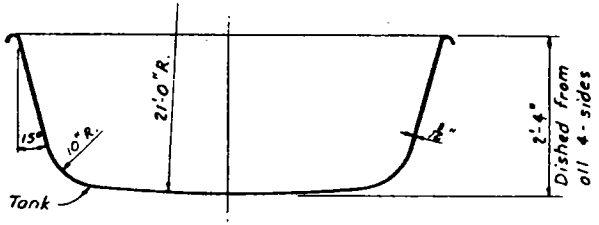


SECTION ACROSS RAMP

SCALE IN FEET



SECTION - A

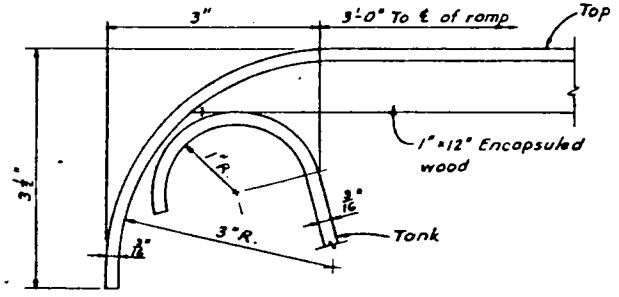


SECTION THRU ℄

CISTERN TANK

90 - Required

SCALE IN FEET



DETAIL - G

ASSEMBLY DETAILS

SCALE IN INCHES

STATE OF WASHINGTON
DEPARTMENT OF GAME

GUZZLER
Self-Filling

Designed By: Ted Johnson

Figure 1

*NOTES:

1. Ramp surface shall be course sand bonded to fiberglass.
2. All parts completely waterproof.
3. Color - Interior and Exterior, light brown.
4. All Bids to include Delivery and Destination cost.
5. Fiberglass construction.

Tooling/mold supplied by bid recipient.

6. Reinforcing in top of unit shall be 1"x3" and 1"x12" wood encapsule in fiberglass and resin.
7. Dimensions and thickness of fiberglass parts as shown shall be no less than 3/16" in thickness and ± ½" in any dimension.
8. The form of casting shall be of hand laid matting.

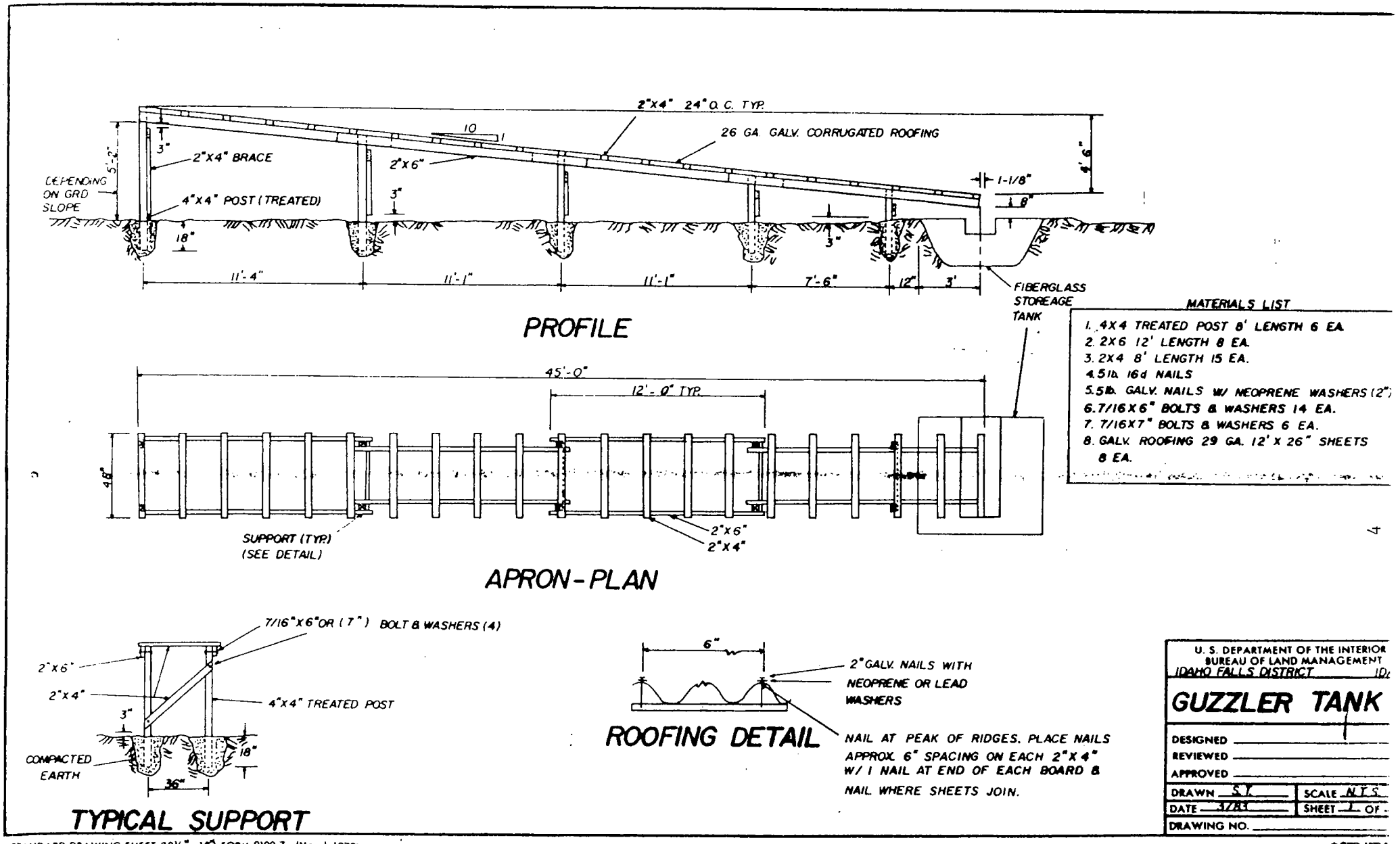

2"X4" 24" O. C. TYP.
26 GA. GALV. CORRUGATED ROOFING
10
1
3"
2"X4" BRACE
2"X6"
5'-2"
DEPENDING ON GRD SLOPE
4"X4" POST (TREATED)
3"
18"
3"
1-1/8"
8"
4'-6"
11'-4"
11'-1"
11'-1"
7'-6"
12"
3'
FIBERGLASS STOREAGE TANK
PROFILE
MATERIALS LIST
1. 4X4 TREATED POST 8' LENGTH 6 EA.
2. 2X6 12' LENGTH 8 EA.
3. 2X4 8' LENGTH 15 EA.
4. 5 lb. 16d NAILS
5. 5 lb. GALV. NAILS W/ NEOPRENE WASHERS (2")
6. 7/16X6" BOLTS & WASHERS 14 EA.
7. 7/16X7" BOLTS & WASHERS 6 EA.
8. GALV. ROOFING 29 GA. 12' X 26" SHEETS 8 EA.
45'-0"
12'-0" TYP.
48"
SUPPORT (TYP.) (SEE DETAIL)
2"X6"
2"X4"
APRON-PLAN
7/16"X6" OR (7") BOLT & WASHERS (4)
2"X6"
2"X4"
4"X4" TREATED POST
3"
18"
COMPACTED EARTH
36"
TYPICAL SUPPORT
6"
2" GALV. NAILS WITH NEOPRENE OR LEAD WASHERS
ROOFING DETAIL
NAIL AT PEAK OF RIDGES. PLACE NAILS APPROX. 6" SPACING ON EACH 2"X4" W/ 1 NAIL AT END OF EACH BOARD & NAIL WHERE SHEETS JOIN.
U. S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
IDAHO FALLS DISTRICT
GUZZLER TANK
DESIGNED
REVIEWED
APPROVED
DRAWN S.Y.
SCALE N.T.S.
DATE 3/83
SHEET 1 OF
DRAWING NO.
STANDARD DRAWING SHEET (10½" x 18") FORM 9100-7a (March 1979)

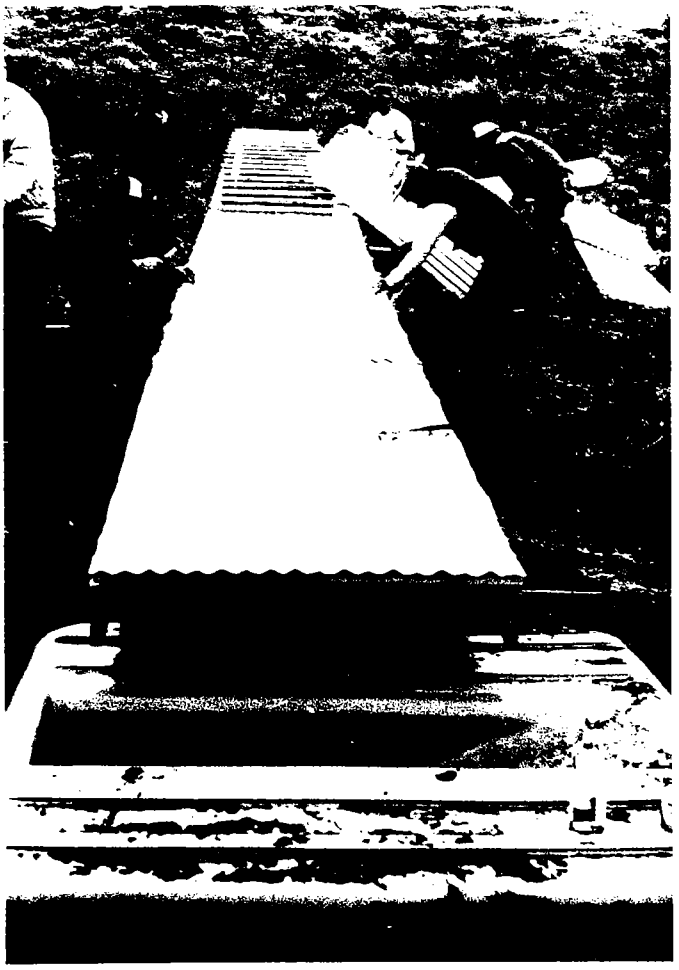
Figure 2

A hole 6 feet square and about 2 feet deep is required for installation of the cistern. Level the tank using loose soil or sand for bedding the bottom. Fill around the sides of the tank and lightly tamp with a shovel handle. The lid should be just above ground level to allow easy removal for maintenance.

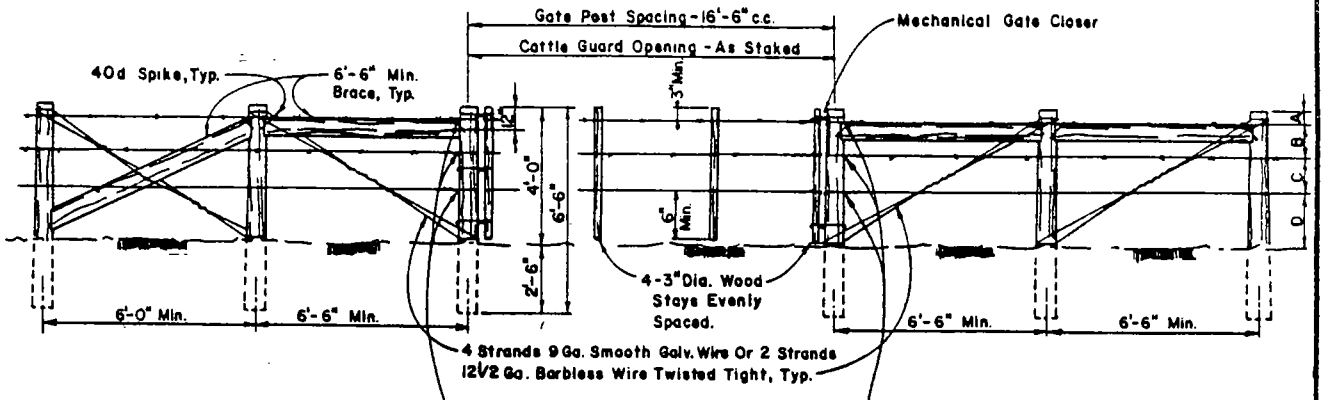
The 4"X4" cedar posts are set into the ground 18" deep. Bolt the 2"x6" lumber to them with the 7/16" bolts. (Note the string stretched along the top of the 2X6" to keep the line straight and the slope constant for the apron).

The 2"X4"s are sawed to 4' lengths and nailed to the top of the 2"X6"s. This provides the frame work for the tin. The boards should be spaced close enough to hold the tin securely (minimum of 30" spacing is recommended).

The tin sheets are nailed to the 2"X4"s using roofing nails. The apron should be constructed low to the ground to reduce wind stress and visual intrusiveness. (Note the bottom of the apron is high enough above the tank to allow removal of the lid for maintenance).



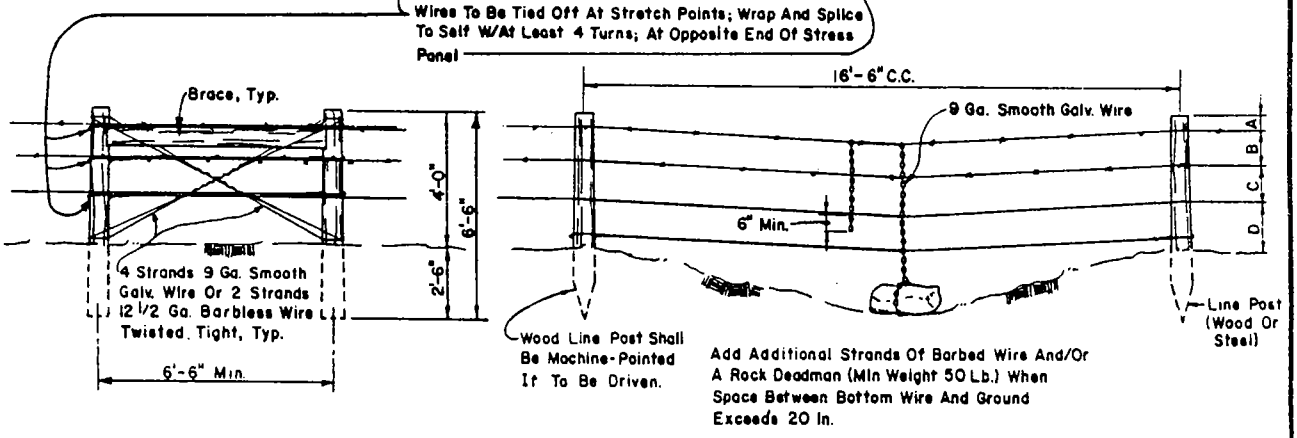
A small tank watered from a livestock pipeline. The trickler device allows a constant flow through the summer (unless it clogs with sediment). Larger storage tanks are necessary if water is not available through the dry period of the year.



END PANEL-TYPE ONE
(See Specifications For Type To Be Used)

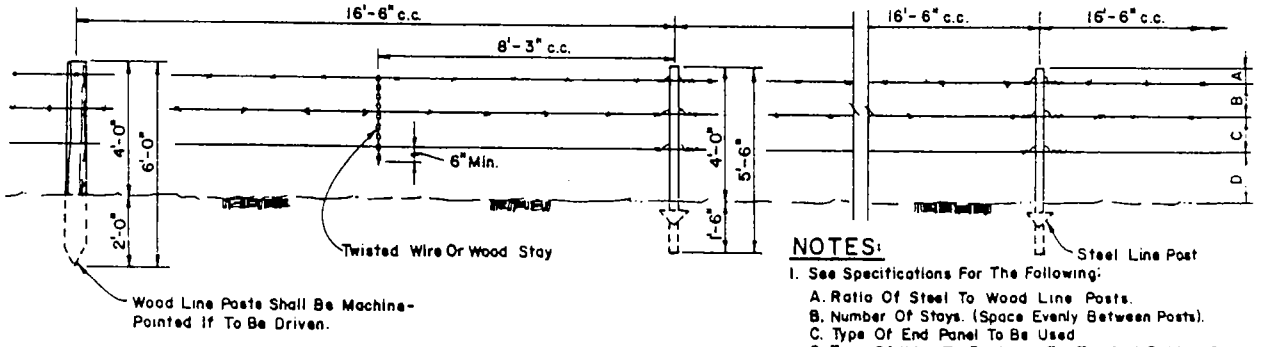
WIRE GATE

END PANEL-TYPE TWO
(See Specifications For Type To Be Used)



STRESS PANEL

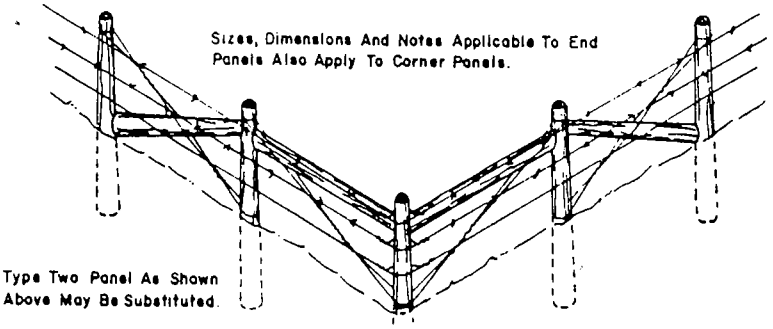
PANEL AT MINOR DEPRESSION



LINE PANELS

NOTES:

1. See Specifications For The Following:
   A. Ratio Of Steel To Wood Line Posts.
   B. Number Of Stays. (Space Evenly Between Posts).
   C. Type Of End Panel To Be Used
   D. Type Of Wire To Be Used For Top And Bottom Strand.
   E. Spacing Between Strands.
   F. Type Of Gate(s) To Be Used.
   G. Type Of End Panels To Be Used For Corner Panel To Be Used.
2. At All Junctures Of Post & Braces, Mortise 1" Deep.



Corner Panel May Be Constructed Using Type One End Panels Or Type Two End Panels. Refer To Specifications For Type Of End Panels To Use.

CORNER PANEL

Figure 3

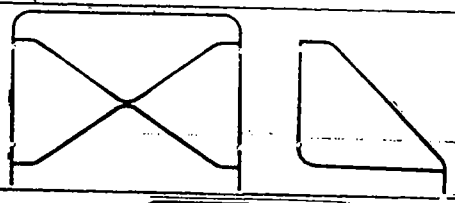
ALWAYS THINK SAFETY

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT DIVISION OF ENGINEERING DENVER SERVICE CENTER	
BARBED WIRE FENCE TYPE-B	
DESIGNED BY OTHERS REVIEWED APPROVED	
DRAWN P.W. TWIST	SCALE NTS
DATE APRIL 20, 1982	SHEET OF
DRAWING NO. 02445-2	

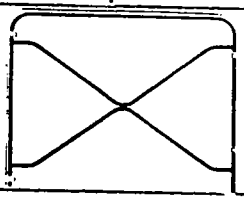
BY D-C INDUSTRIES
EASY FENCE
Derrald Chappell
Box 23
Coalville, UT 84017
Phone (801) 336-2404

FACTORY DIRECT PRICE LIST

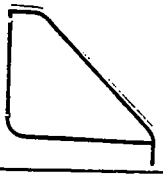
CLAMPS INCLUDED



PANEL AND BRACE	PRICE
1-49	31.95
50-99	30.95
100 plus	29.95



PANEL	PRICE
1-49	22.98
50-99	21.98
100 plus	20.98



BRACE	PRICE
1-49	10.98
50-99	9.98
100 plus	8.98

STEEL GATE POST	PRICE
1-9	32.98
10 plus	29.98

F.O.B. COALVILLE, OR PROVO, UTAH
PRICES SUBJECT TO CHANGE WITHOUT NOTICE

SHIPPING WEIGHT
Single panel 19.3 pounds
Single brace 8.7 pounds

Specify the truck line you prefer.
Time in route approximately two weeks.

PATENT PENDING

Figure 4

U.S. DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JOB DOCUMENTATION REPORT

I – GENERAL DESCRIPTION — Card 1

5. Job Name (11–30): DEADMAN CYN WWTR #2

LOCATION CODES

6. Special Project Code (31–34): BBWL
7. Resource Area Planning Unit (35–38): 4801
8. Subregion (39–42): 1704
9. County (43–45): 023
10. Watershed Area Number (46–48):
11. Allotment Number (49–52):
12. Wildlife Habitat Area (53–56):
13. Wild Horse/Burro Area Number (57–60):
14. Meridian (61–62): OY
15. Township (63–67): 0040N
16. Range (68–72): 0280E
17. Section (73–74): 19
18. Subdivision (75–78): NWSW

SITE AND VEGETATION DESCRIPTION

19. Present SSF (79–80):
20. Percent Slope (81–82):
21. Exposure (83):
22. Soil Texture (84):
23. Precipitation *(inches)* (85–86):
24. Elevation *(feet)* (87–91):
25. Vegetation Subtype (92–94):

COMPOSITION *(Percent)*

26. Grasses (95–96):
27. Forbs (97–98):
28. Browse (99–100):

COVER *(Percent)*

29. Vegetation (101–102):
30. Litter (103–104):
31. Bare Ground (105–106):

II – ANNUAL WORK PLAN INPUT DATA — Card 2

75. Subactivity (11–14): 4350
76. Component-Job Code (15–18): 5557

UNITS PLANNED

77. Primary (19–24): 10
78. Secondary (25–29): 500

TIME OF AWARD

79. Fiscal Year (30–31): 84
80. Third (32): 2

TIME OF COMPLETION

81. Fiscal Year (33–34): 84
82. Third (35): 2

BLM COST

83. Method (36): 5
84. Material (37–41): 500
85. Contract (42–47): 0

CONTRIBUTED COST

86. Material (48–52): 0
87. Labor/Equipment (53–57): 600

MAINTENANCE

88. Responsibility (58): 6
89. Cycle (59–61): 403

JOB IDENTIFICATION

1. State (2–3): ID
2. District (4–5): 03
3. Job Number (6–9): 4721
4. Transaction Code (10): 2

III – JOB DETAILS AND BENEFITS — Card 3

37. Primary Job Objective (11): 7

PLANT AND PEST CONTROL

39. Chemical (12):
42. Method (13):
45. Mechanical – Method (14):

ARTIFICIAL REVEGETATION

47. Pounds Seed/Acre (15–17):
48. Seedlings/Acre (18–21):
49. Method (22):
51. AUM's Livestock Forage Added (23–26):
52. Future SSF (27–28):

WATERSHED TILLAGE

54. Method (29):

FACILITIES

55. Type (30):
56. Other Misc. (31):

WATER DEVELOPMENT/CONTROL

59. Type (32–33): 14
60. Water Filing Number (34–39):
STORAGE (Ac. Ft.) 61. Flood (40–45):
62. Silt (46–51):

WILDLIFE HABITAT DEVELOPMENT/PROTECTION

63. Type (52–53): 24
64. Primary Species (54–56): 610
65. Animal Months (57–61): 02400
66. Number Increase (62–66): 00200
67. Pounds Fish Increase (67–71):
68. Rare/Endangered (72):

VISITOR DAYS ADDED

69. Fisherman (73–76):
70. Hunter (77–80):
71. Other (81–84):

IV – PROGRESS REPORT — Card 4

COMPLETION DATA

UNITS 90. Primary (11–16): 10
91. Secondary (17–21): 500
TIME 92. Fiscal Year (22–23): 84
93. Third (24): 2
94. Job Cost (25–30): 500
95. Work-Months (31–33): 1

CONTRIBUTION DETAIL

96. Agreement (34): 6
97. Contributor (35): 6
98. Contributor's Name (36–55): AEC SPORTSMEN CLUB

CONTRIBUTIONS

99. Deposited (56–60):
UNDEPOSITED 100. Materials (61–65):
101. Labor/Equipment (66–70): 600

V – DETAIL OF UNITS AND COSTS ☐ ESTIMATE ☐ ACTUAL

WORK DESCRIPTION AND MATERIALS (a)	UNITS EA.MILE,ETC. (b)	UNITS COST (c)	BLM COSTS MATERIALS (d)	BLM COSTS CONTRACT (e)	COOPERATOR COSTS MATERIALS (f)	COOPERATOR COSTS LABOR (g)
Tank & Catchment	1 ea	500	500			600
TOTALS Materials						
Labor/Equipment			500			600

Figure 5

Form 1732–1 (August 1981)

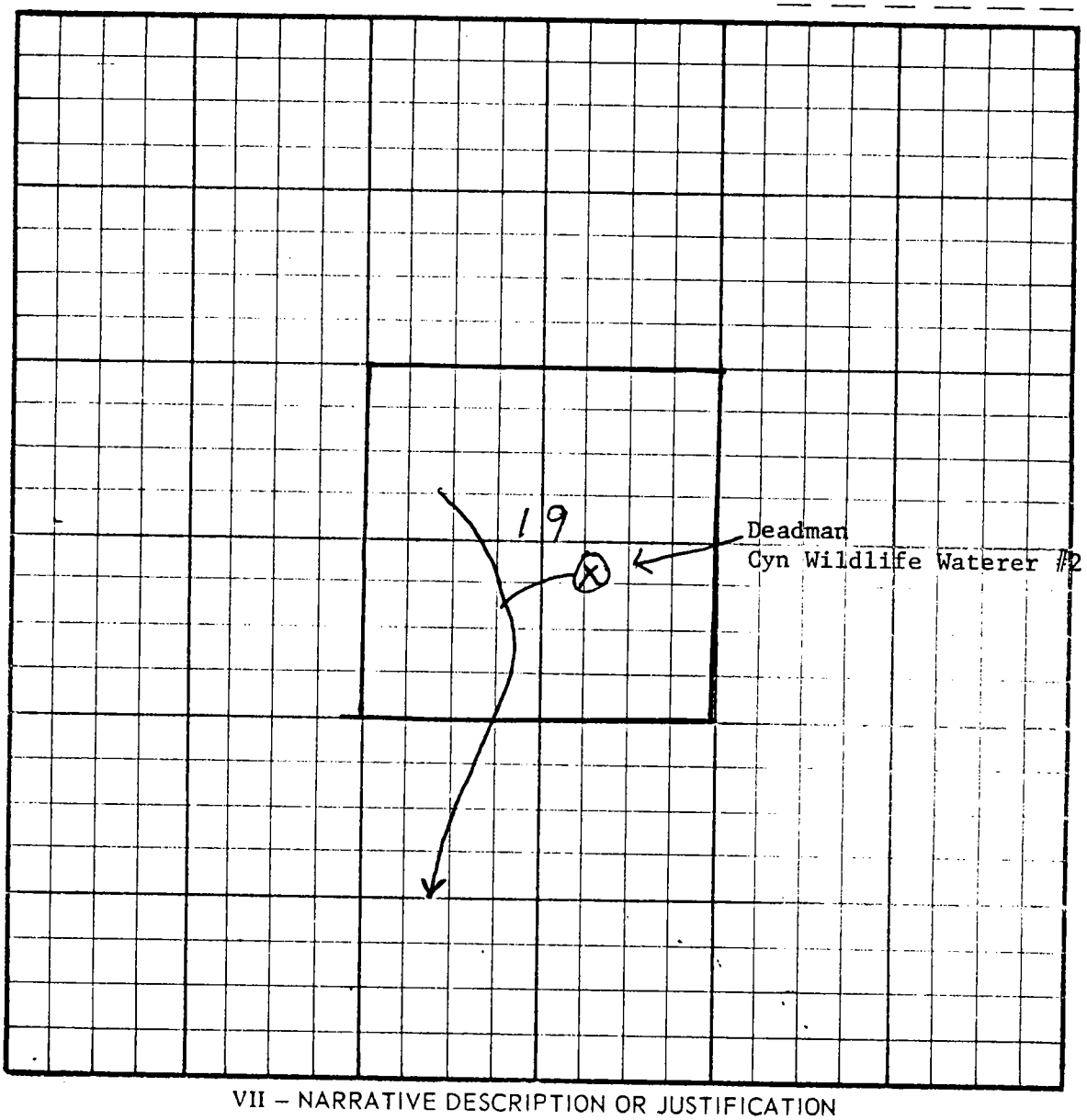
JOB IDENTIFICATION

STATE I D DISTRICT 0 3 JOB NUMBER 4 7 2 1

VI – LOCATION PLAT

T. 4 N R. 2 8 E

Scale 1 inch = ½ Mile
Meridian B O I S E



VII – NARRATIVE DESCRIPTION OR JUSTIFICATION

1 - 500 gallon tank & catchment

Prepared by Bob McCarty	Title Wildlife Biologist	Date 4/5/85
Approved by	Title	Date

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JOB INSPECTION RECORD AND MAINTENANCE SCHEDULE

Job Number: 4 4 9 2

Maintenance responsibility —

1. State	2. District	3. Planning Unit	4. Job Name
I D	0 3		Packsaddle Well Wildlife Waterer

5. Location T. 2 S, R. 30 E Sec. 30, ¼ Sec. NW

6. Type of improvement Wildlife Waterer

7a. Last inspection *(date)* 6/13/85

b. Condition or success of improvement
[X] good [ ] fair [ ] poor [ ] failure

c. Apparent reasons for failure or success

Water was a bit low, some filling was needed.

8a. Recommended action
[X] Normal maintenance [ ] Reconstruction [ ] Salvage or other use
[ ] Abandon [ ] Other

b. Describe needed repairs or treatment

Valve may need a little work with this dry summer, this waterer may need to be visited again in mid-to-late July to be filled again. Flat wire needed on bottom.

c. Estimated cost of maintenance needs $

d. Last maintenance completed *(date)*

9a. Fiscal year work programmed

b. Next inspection *(date)*

Remarks *(include recommendation on remedial management practices, etc., and support with photographs)*

Water is relatively clean. Some bird sign at, near guzzler. Numerous at waterer. Some filling around guzzler was required. That was taken care of with some dirt and rocks. Some animal must have dug out a depression next to the tank for shade and coolness. A king snake was spotted near the pump. The pumpman had also killed a rattlesnake at the pump which he hung on the barbed wire. Dead mouse found in metal valve tank.

Signature of Inspector	Title	Date
William R. Waryas	SCA	6/24/85

INSTRUCTIONS – District Office prepares one copy. File in District maintenance inventory file.

Form 7120–3 (Sept. 1971) (formerly 7330–5)

GPO 842-445

Figure 6