Design Notes:

1. Max. pumping head will be 20 ft.
2. PVC pipe shall be schedule 40 or SDR-26 or stronger.
3. Hydrant exposure above ground should be approximately 24 in.
4. Area of strainer opening must exceed 4 times pipe area.
5. Keep pond clear of aquatic plants and debris as much as possible.
6. Exposed pipe and fittings shall be primed and painted for ultraviolet protection.

TBM LOCATION TO BE NOTED ON HYDRANT LOCATION MAP.

HYDRANT LOCATION

*NOTE:
Hydrant assembly includes:
PVC elbow, NST(ISO) threaded insert w/ PVC adaptor, strainer, steel snap ring and snap-on cap.
Also, an NH reducer may be needed to provide hook-up to pumper.

BILL OF MATERIALS

QUANT.	UNIT	ITEMS
	EACH	___', ___° HYDRANT ASSEMBLY *
	EACH	___'PVC SCHED. 40 STRAINER (4' LONG)
	EACH	___'PVC SCHED. 40 ELBOW, ___°
	L.F.	___'PVC SCHED. 40 PIPE-RISER
	L.F.	___'PVC SCHED. 40 PIPE
	EACH	___'PVC COUPLINGS
	EACH	PVC PIPE SUPPORT UNIT
	EACH	ANTI-VORTEX DEVICE
	TONS	CRUSHER RUN GRAVEL (CR-14)

POND HYDRANT DESIGN

MAX. PUMP HEAD (FT.)
MIN. PUMP HEAD (FT.)
1/ NORMAL POOL (GAL. AVAILABLE)
NORMAL POOL (ACRES)
2/ DROUGHT POOL (GAL. AVAILABLE)
DROUGHT POOL (ACRES)
DESIGN PUMP RATE (GPM)

CERTIFICATION FOR INSTALLATION OF DRY HYDRANT

I, _____

hereby certify that the information given below is correct to the best of my knowledge and that I have reviewed the design for a dry hydrant at the location as shown on the drawings and that the location and design is compatible with a fire fighting plan for the community and local fire equipment and that the water supply is adequate to meet fire fighting needs for the service radius of this hydrant

I concur that the location of the dry hydrant has all weather access by fire fighting equipment and that it will not pose a hazard to emergency or other vehicular traffic when it is in use.

Operation and maintenance of this dry hydrant will be the responsibility of the respective fire department.

Signature of Certifying Official _____ Date _____

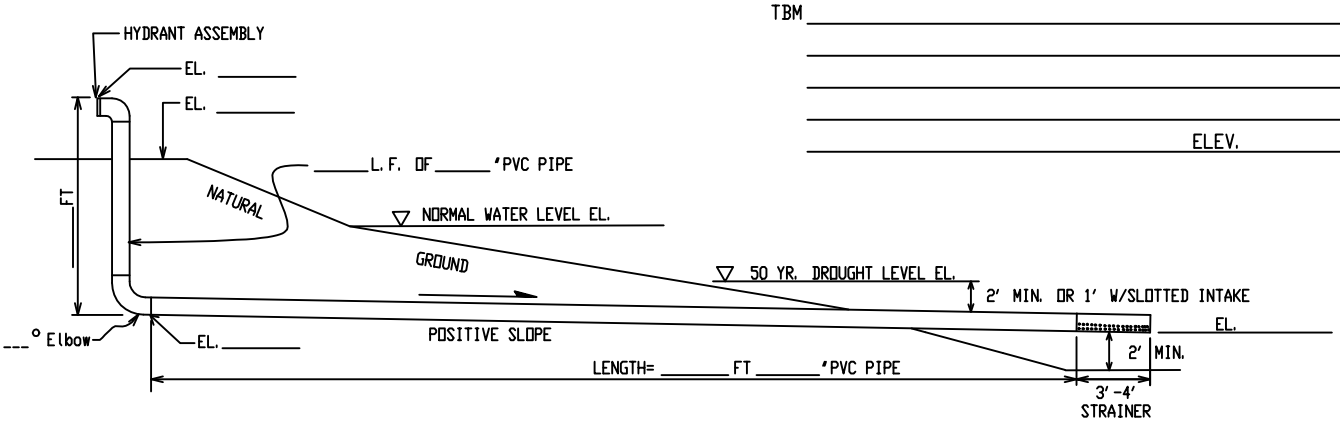
Title of Certifying Official _____

This practice was installed in accordance with NRCS plans and specifications prepared for the job.

Signature of Certifying NRCS Technician _____

TBM _____

ELEV. _____



DRY HYDRANT PROFILE

NOT TO SCALE

FORM NO. AL-ENG-53
SHEET NO. 1 OF 1
CAD FILE NO.

Dry Hydrant Details
Dry Hydrant No. _____
_____ County, AL
_____ Farm or Landowner

U. S. DEPARTMENT OF AGRICULTURE - NATURAL RESOURCES CONSERVATION SERVICE

DATE
Designed
Drawn
Checked
Approved

USDA
United States Department of Agriculture

1/ Available water represents the storage between normal pool and the minimum pump-down elevation (2' with circular hole intake or 1' with special design slotted intake) above top of intake.

2/ Available water represents storage between 50 yr. drought pool and minimum pump-down elevation.