

PUBLIC NOTICE

REQUEST FOR PERMISSION TO ALTER A U.S. ARMY CORPS OF ENGINEERS PROJECT UNDER SECTION 408

TITLE: Pennsylvania Fish and Boat Commission – Placement of Artificial Fish Habitat Improvement Structures within the U.S. Army Corps of Engineers’ Blue Marsh Lake located in Bern, Lower Heidelberg, North Heidelberg, and Penn Township, Berks County, Pennsylvania.

PUBLIC NOTICE IDENTIFICATION NUMBER: NAP-2020-408-0003

PUBLIC NOTICE COMMENT PERIOD:

Begins: **07 May 2020**

Expires: **06 June 2020**

Interested parties are hereby notified that an application has been received for a Department of the Army Section 408 permission for certain work at or near a federal project of the United States, as described below and shown on attached figures. Written comments are being solicited from anyone having an interest in the requested alteration. Comments will become part of the U.S. Army Corps of Engineers’ (USACE’s) administrative record and will be considered in determining whether to approve the request. Comments supporting, opposing, or identifying concerns that should be considered by the USACE in its decision process are all welcome.

This public notice is not a paid advertisement and is for public information only. Issuance of this notice does not imply USACE endorsement of the project as described.

- 1. REQUESTER:** In compliance with 33 USC 408 (Section 14 of the Rivers and Harbors Act of 1899; hereinafter Section 408), the Pennsylvania Fish and Boat Commission has requested permission to place artificial fish habitat improvement structures within Blue Marsh Lake, which is owned and maintained by the U.S. Army Corps of Engineers.
- 2. LOCATION:** The proposed project is located at Blue Marsh Lake; Bern, Lower Heidelberg, North Heidelberg, and Penn Township, Berks County, Pennsylvania.
- 3. LOCATION MAP(S)/DRAWING(S):** See attached Drawings.
- 4. REQUESTER’S PROPOSED ACTION:** Placement of approximately 837 artificial fish habitat improvement structures within Blue Marsh Lake; comprised of 77 Deflectors, 45 Porcupine Cribs, 300 Short Vertical Planks, 280 Rock Rubble Humps, 8 Post Clusters, 5 Rock Stars, 2 Rootwad Humps, and 120 Catfish boxes.

5. REGULATORY AUTHORITY: This request will be reviewed according to the provisions of Section 14 of the Rivers and Harbors Act of 1899 (33 U.S.C. 408). A requestor has the responsibility to acquire all other permissions or authorizations required by federal, state, and local laws or regulations, including any required permits from the USACE Regulatory Program under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403), Section 404 of the Clean Water Act (33 USC Section 1344) and/or Section 103 of the Marine Protection, Research and Sanctuaries Act of 1972 (33 USC 1413). Any Section 10/404/103 permit decision associated with the proposed alteration is separate from and will not be included in the Section 408 permission decision. An approval under Section 408 does not grant any property rights or exclusive privileges nor does it authorize any injury to the property or rights of others.

6. ENVIRONMENTAL COMPLIANCE: A decision on a Section 408 request is a federal action, and therefore subject to the National Environmental Policy Act (NEPA) and other environmental compliance requirements. While ensuring compliance is the responsibility of USACE, the requester is providing all information that the Philadelphia District identifies as necessary to satisfy all applicable federal laws, executive orders, regulations, policies, and ordinances. Based on information provided by the applicant to date, current Corps regulations governing NEPA implementation, and/or the contents of existing NEPA documentation if available, it is likely that the proposed action will be determined to be categorically excluded from the need to prepare an Environmental Assessment (EA) or Environmental Impact Statement (EIS). This determination will be finalized following completion of agency coordination and prior to issuance of the Section 408 Permission Decision.

7. EVALUATION: As part of its evaluation, USACE will first make a determination that the submittal from the requestor is complete. The Philadelphia District is working closely with the requestor to ensure that all required technical plans, maps, drawings, and specifications are provided and are complete. Once the package is complete, a District-led review will be conducted to determine, in accordance with Engineering Circular (EC) 1165-2-216, whether the proposed alteration will impair the usefulness of the USACE Project or be injurious to the public interest, as follows:

- A. *Impair the Usefulness of the Project Determination.* The Philadelphia District's Section 408 review team will determine if the proposed alteration will limit the ability of the federally authorized project to function as authorized, or will compromise or change any authorized project conditions, purposes or outputs.
- B. *Injurious to the Public Interest Determination.* Proposed alterations will be reviewed to determine the probable impacts, including cumulative impacts, on the public interest. Evaluation of the probable impacts that the proposed alteration to the USACE project may have on the public interest requires a careful weighing of all those factors that are relevant in each particular case. Factors that may be relevant to the public interest depend upon the type of USACE project being altered and may include, but are not limited to, such things as conservation, economic development, historic properties, cultural resources, environmental impacts, water supply, water quality, flood hazards, floodplains, residual risk, induced damages, navigation, shore erosion or accretion, and recreation. The decision whether to

approve an alteration will be determined by the consideration of whether benefits are commensurate with risks. If the potential detriments are found to outweigh the potential benefits, then it may be determined that the proposed alteration is injurious to the public interest.

8. SOLICITATION OF COMMENTS: The USACE is soliciting comments from the public; federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of the proposed activity. Any comments received will be considered by USACE to determine whether to issue, modify, condition, or deny a permission for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and other public interest factors listed above. Comments are considered in making a final determination whether the proposed action will be categorically excluded from the need to prepare further NEPA documentation. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

- A. It should be noted that materials submitted as part of the Section 408 request become part of the public record and are thus available to the general public under the procedures of the Freedom of Information Act (FOIA). Individuals may submit a written request to the Philadelphia District Corps of Engineers, Office of Counsel to obtain copies of said materials under the FOIA.
- B. It is presumed that all parties viewing this notice will wish to respond to this public notice; therefore, a lack of response will be interpreted as meaning that there is no objection to the project as described.

9. COMMENT SUBMISSION AND ADDITIONAL INFORMATION: Written comments on the described work should reference the USACE Public Notice Identification Number found on the first page of this notice. Comments must reach this office no later than the stated expiration date of the Public Notice to become part of the record and be considered in the decision. Comments or requests for additional information should be mailed or emailed to the following address:

Email: JuanCarlos.Corona@usace.army.mil

Mailing Address:

U.S. Army Corps of Engineers

Philadelphia District

ATTN: Juan Carlos Corona

7th Floor

100 Penn Square East

Philadelphia, PA 19107-3390

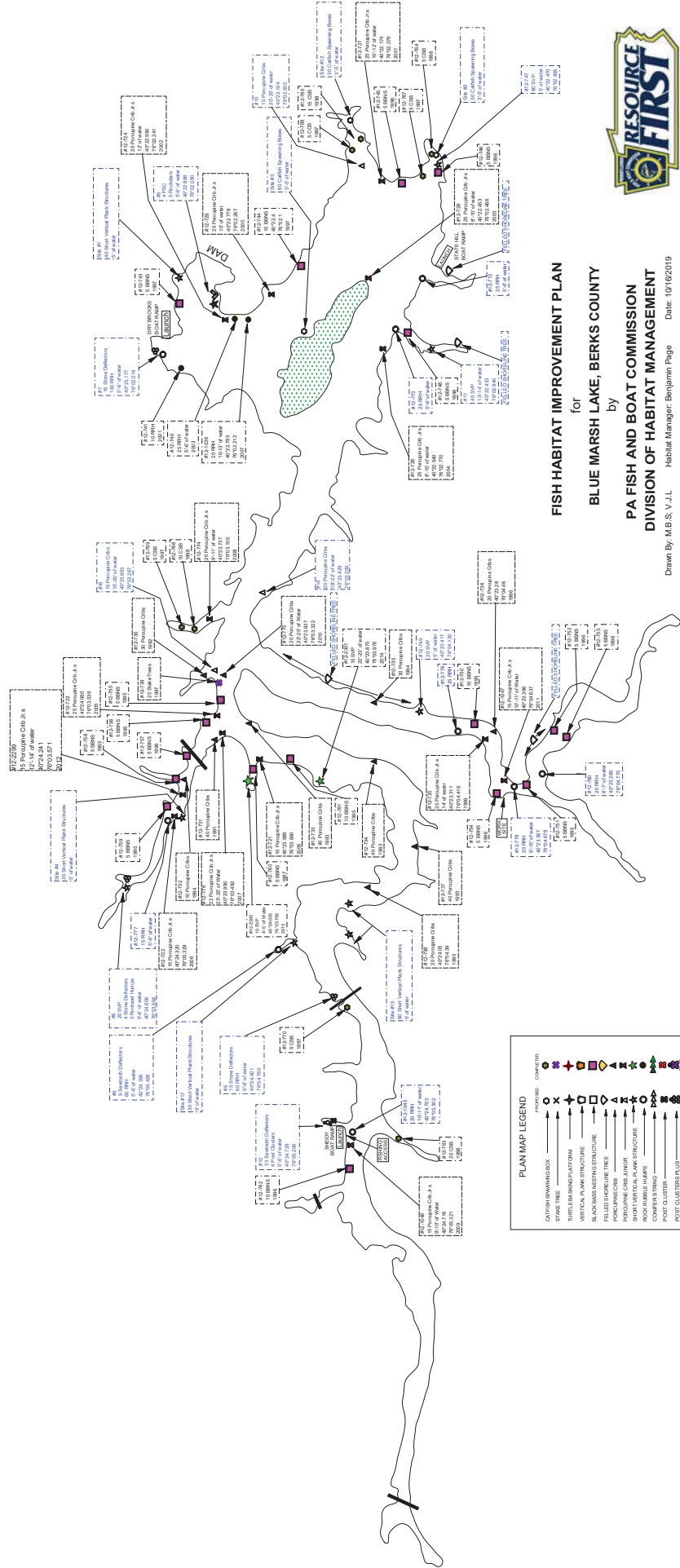


FISH HABITAT IMPROVEMENT PLAN
 for
BLUE MARSH LAKE, BERKS COUNTY
 by
PA FISH AND BOAT COMMISSION
DIVISION OF HABITAT MANAGEMENT

Drawn By: M.B.S. V.J.L. Habitat Manager: Benjamin Page Date: 10/16/2019

NOT TO SCALE
 FIT IN FIELD
 ALL SIZES APPROXIMATE

NOTE • Blue Text Indicates Proposed Sites
Black Text Indicates Completed Sites



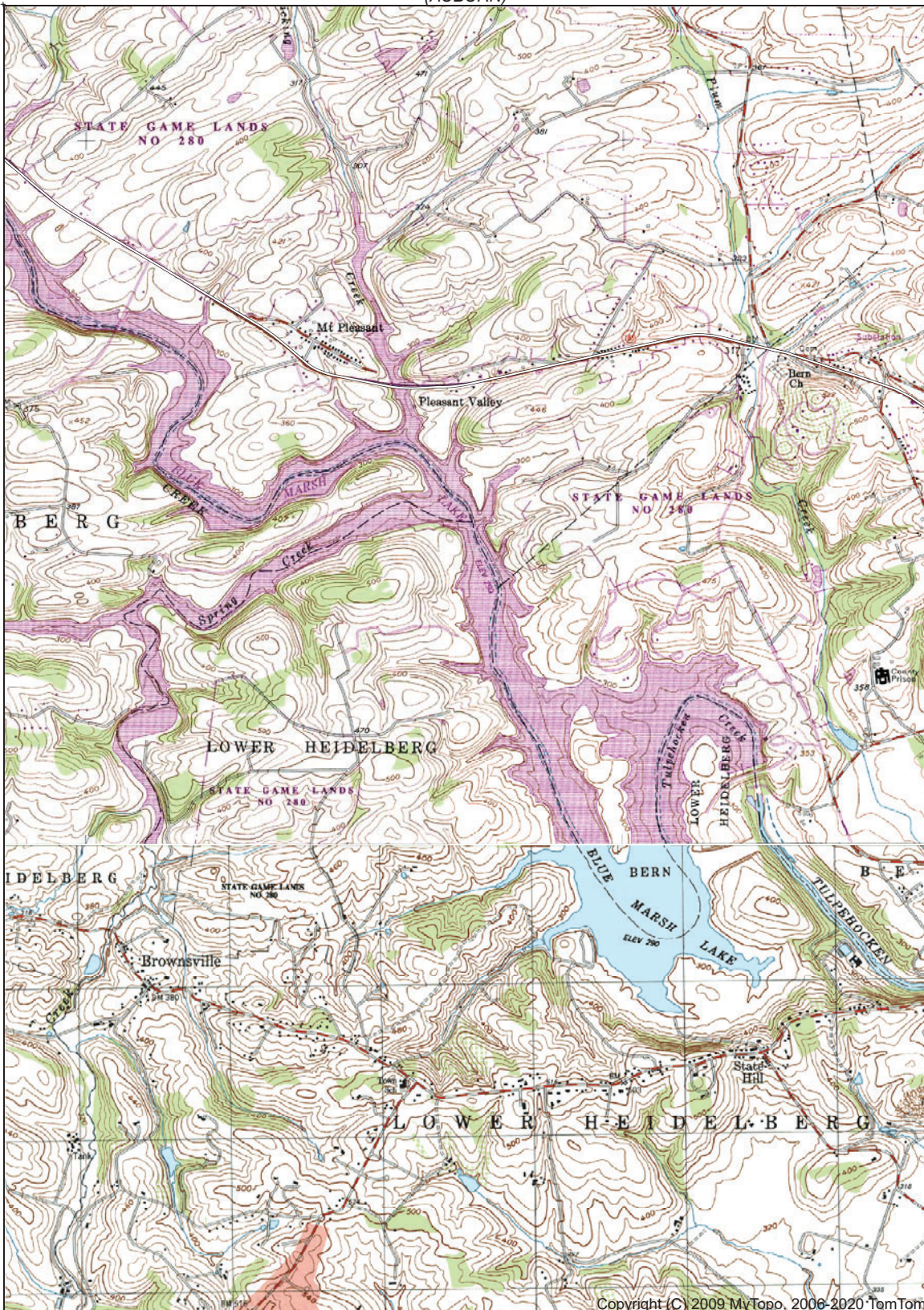
PLAN MAP LEGEND

STRUCTURE	SYMBOL	STATUS
CANTERS SWANNOCK	[Symbol]	COMPLETED
STAKE TREE	[Symbol]	COMPLETED
TURTLE BIRKING PLATFORM	[Symbol]	COMPLETED
VERTICAL PLANK STRUCTURE	[Symbol]	COMPLETED
BLACK WASHING STRUCTURE	[Symbol]	COMPLETED
FELLSHORELINE TREE	[Symbol]	COMPLETED
POND/PINE CANE JANCOR	[Symbol]	COMPLETED
ROCK HUBBLE HUMP	[Symbol]	COMPLETED
POST CLUSTER	[Symbol]	COMPLETED
SPIDERHUMPS	[Symbol]	COMPLETED
ROCK STAR STRUCTURES	[Symbol]	COMPLETED
POST STUMPS	[Symbol]	COMPLETED
SAVING LOGS	[Symbol]	COMPLETED
SAVING LOGS DEFLECTOR	[Symbol]	COMPLETED
ROCK WAD LOG DEFLECTOR	[Symbol]	COMPLETED
TRUSS STRUCTURE	[Symbol]	COMPLETED
ROAD BRD	[Symbol]	COMPLETED
CANTERS SWANNOCK	[Symbol]	PROPOSED
STAKE TREE	[Symbol]	PROPOSED
TURTLE BIRKING PLATFORM	[Symbol]	PROPOSED
VERTICAL PLANK STRUCTURE	[Symbol]	PROPOSED
BLACK WASHING STRUCTURE	[Symbol]	PROPOSED
FELLSHORELINE TREE	[Symbol]	PROPOSED
POND/PINE CANE JANCOR	[Symbol]	PROPOSED
ROCK HUBBLE HUMP	[Symbol]	PROPOSED
POST CLUSTER	[Symbol]	PROPOSED
SPIDERHUMPS	[Symbol]	PROPOSED
ROCK STAR STRUCTURES	[Symbol]	PROPOSED
POST STUMPS	[Symbol]	PROPOSED
SAVING LOGS	[Symbol]	PROPOSED
SAVING LOGS DEFLECTOR	[Symbol]	PROPOSED
ROCK WAD LOG DEFLECTOR	[Symbol]	PROPOSED
TRUSS STRUCTURE	[Symbol]	PROPOSED
ROAD BRD	[Symbol]	PROPOSED

076° 05' 22.12" W
040° 25' 29.19" N

(AUBURN)

076° 01' 03.30" W
040° 25' 29.19" N



(STRAUSSTOWN)

(TEMPLE)

040° 20' 49.91" N
076° 05' 22.12" W

(SINKING SPRING)
SCALE 1:40000

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Printed: Fri Feb 07, 2020

040° 20' 49.91" N
076° 01' 03.30" W

(WOMELSDORF)

(READING)

Produced by MyTopo Terrain Navigator
Topography based on USGS 1:24,000
Maps

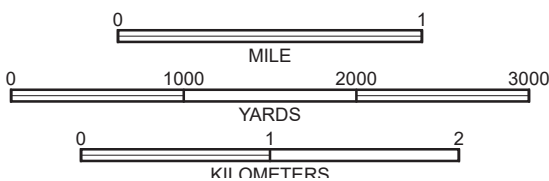
North American 1983 Datum (NAD83)
Polyconic Projection

To place on the predicted North American
1927 move the projection lines 10M N and
28M E

Declination



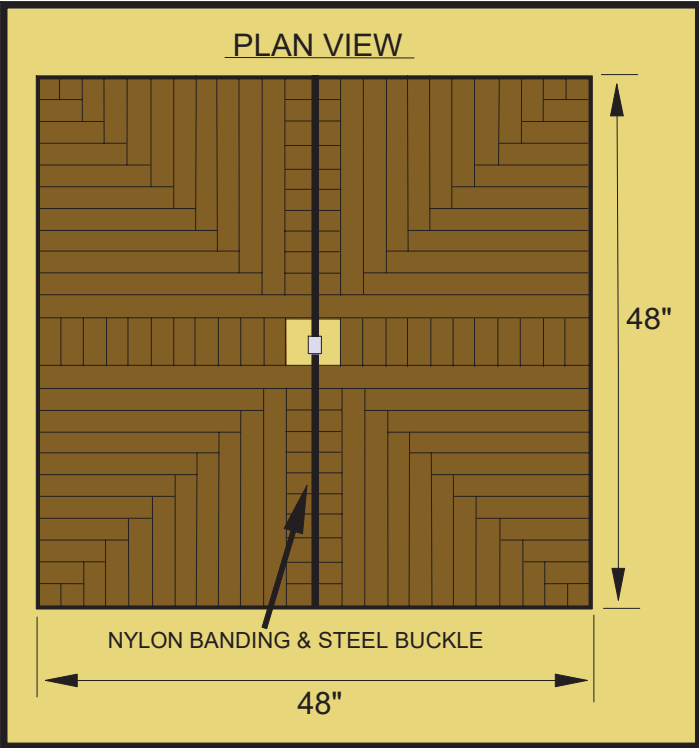
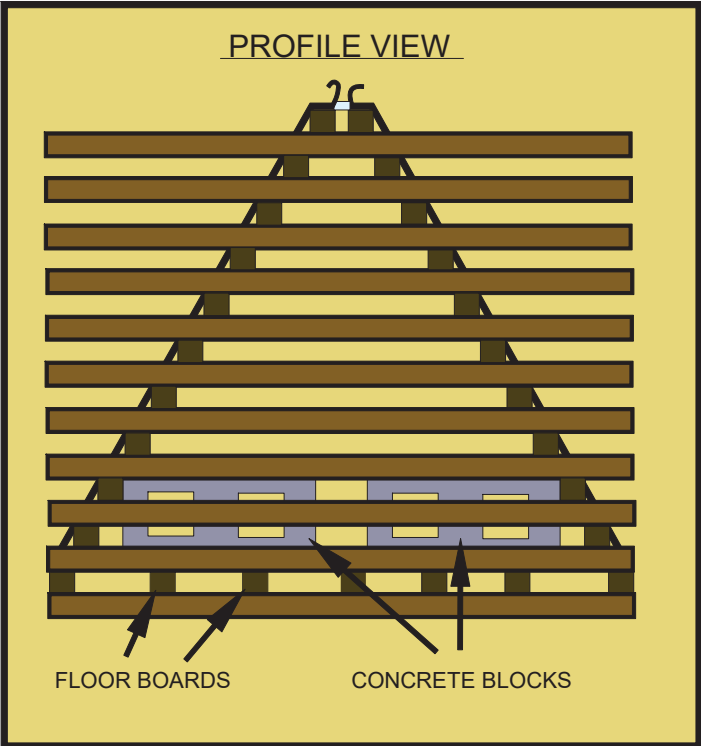
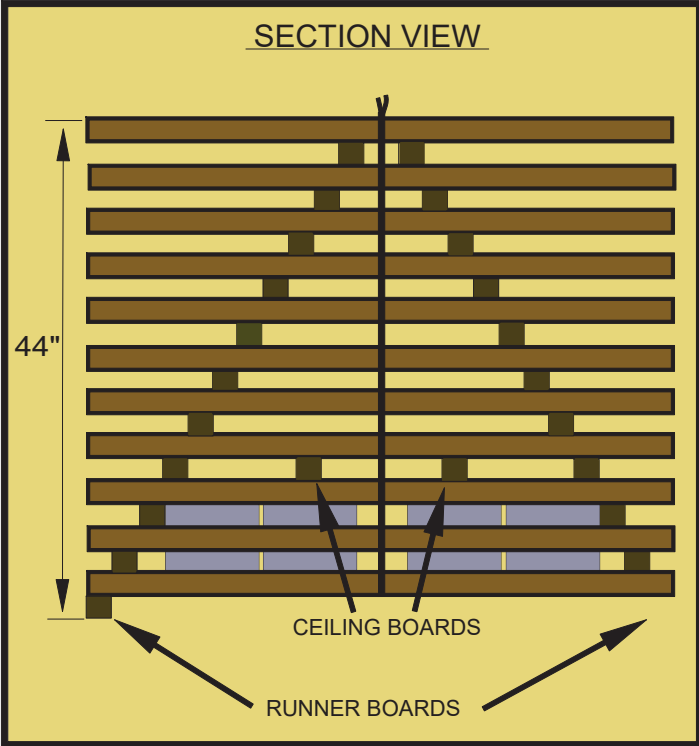
GN 0.68° W
MN 11.80° W



CONTOUR INTERVAL 20 FEET
NATIONAL GEODETIC VERTICAL DATUM 1929

BERNVILLE, PA
1992

PENNSYLVANIA PORCUPINE CRIB STRUCTURE STANDARD DRAWING



MATERIALS AND NOTES

MATERIALS:
 ROUGH CUT HEMLOCK LUMBER 2" x 2" x 4'- 50 PIECES
 8" x 8" x 16" 2 CORE CONCRETE BLOCKS- 8 TOTAL
 16D COMMON NAILS- 2 LBS. (OR 2 STRIPS OF 12D)
 1/2" NYLON BANDING- 18'
 1 STEEL BUCKLE

NOTES:
 LUMBER MUST BE TRUE DIMENSIONAL
 LUMBER MUST BE GREEN (FRESH CUT)
 YELLOW POPLAR MAY BE SUBSTITUTED FOR HEMLOCK
 CONCRETE BLOCKS MINIMUM WEIGHT: 35 LBS
 NYLON BANDING: 600 LBS TENSILE STRENGTH
 NOT TO SCALE
 ALL SIZES ARE APPROXIMATE
 FIT IN FIELD

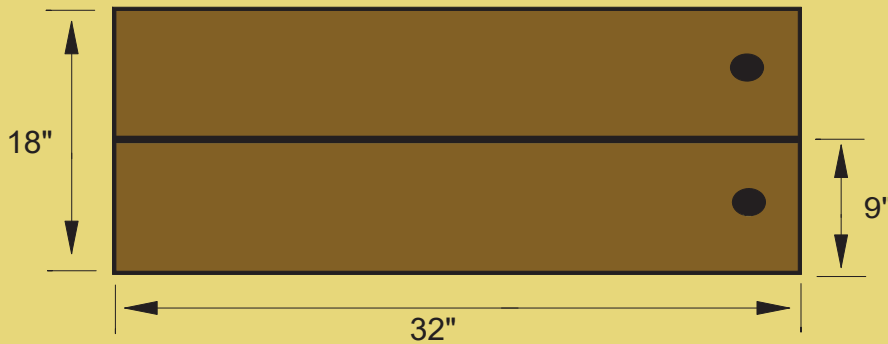
PENNSYLVANIA CHANNEL CATFISH SPAWNING BOX STANDARD DRAWING

SECTION VIEW

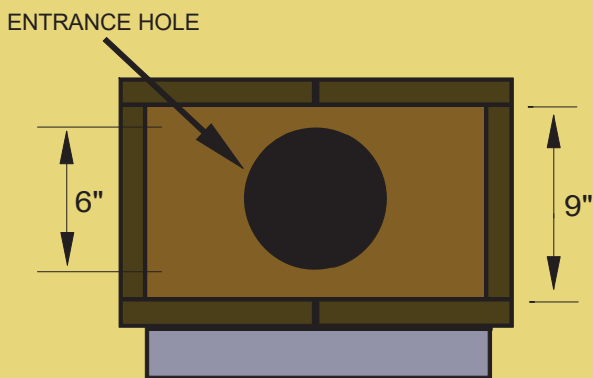


2 - 16" x 16" x 2" CONCRETE PATIO BLOCKS ARE ATTACHED TO THE BOX BY 1/4" CARRIAGE BOLTS, NUTS, AND WASHERS

PLAN VIEW



PROFILE VIEW



MATERIALS AND NOTES

MATERIALS:

- ROUGH CUT HEMLOCK LUMBER 1" X 9" X 8' - 2.5 PIECES
- CONCRETE PATIO BLOCK 16" X 16" X 2" - 2 PIECES
- COMMON NAILS (10D) -32 NAILS OR 1/8 LBS
- CARRIAGE BOLTS- 1/4" X 3" - 4 EACH
- CARRIAGE NUTS- 4 EACH
- CARRIAGE WASHERS- 4 EACH

NOTES:

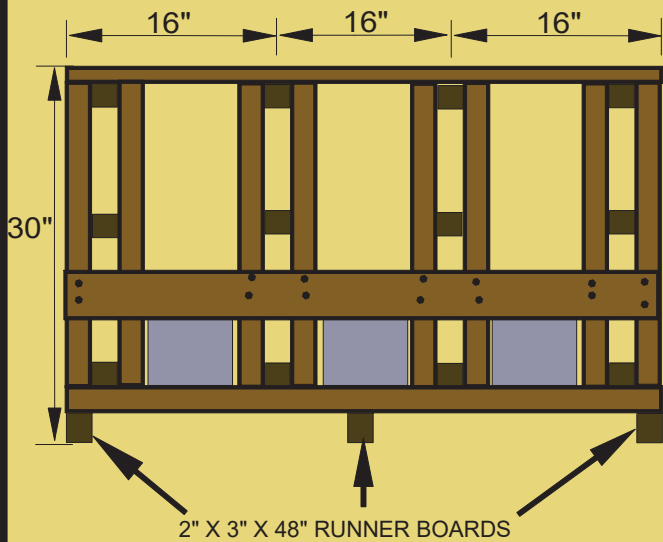
- LUMBER MUST BE TRUE DIMENSIONAL
- LUMBER MUST BE GREEN (FRESH CUT)
- YELLOW POPLAR MAY BE SUBSTITUTED FOR HEMLOCK
- BOX SHOULD BE PLACED IN 3' - 5' OF WATER
- CAN BE PLACED BY EXCAVATING A HOLE OR BY BOAT
- NOT TO SCALE
- ALL SIZES ARE APPROXIMATE
- FIT IN FIELD

SUGGESTED EQUIPMENT:

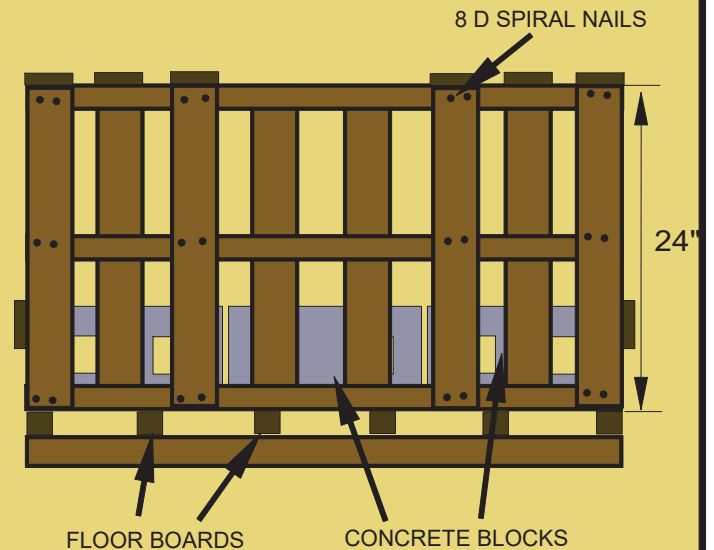
- ELECTRIC DRILL, SABER SAW, CIRCULAR SAW
- 7/16" SOCKET AND RATCHET, CLAW HAMMER
- MASONARY BIT 5/16", WOOD BIT 1/2"

PENNSYLVANIA "SHORT" VERTICAL PLANK STRUCTURE STANDARD DRAWING

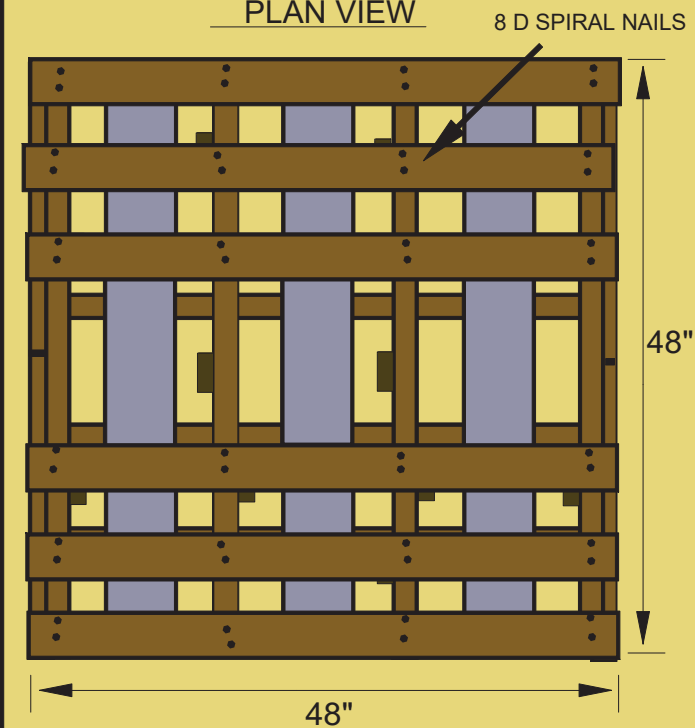
SECTION VIEW



PROFILE VIEW



PLAN VIEW



MATERIALS AND NOTES

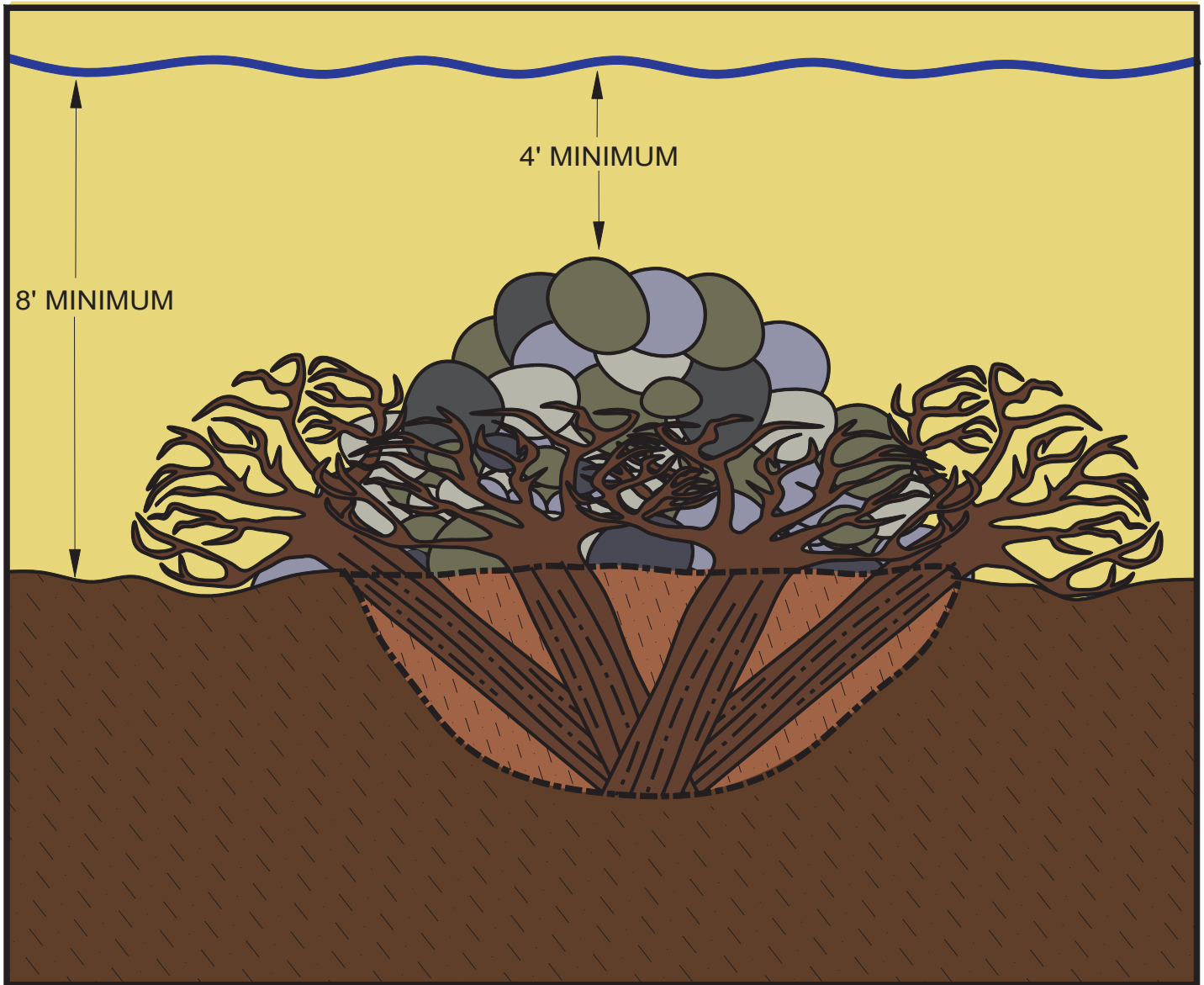
MATERIALS:

- ROUGH CUT HEMLOCK LUMBER 1" X 4" X 24" - 32 PEICES
- ROUGH CUT HEMLOCK LUMBER 1" X 4" X 48" - 8 PEICES
- ROUGH CUT HEMLOCK LUMBER 2" X 2" X 48" - 18 PEICES
- ROUGH CUT HEMLOCK LUMBER 2" X 3" X 48" - 3 PEICES
- 8" X 8" X 16" 2 CORE CONCRETE BLOCKS- 9 TOTAL
- GALZANIZED OR STAINLESS SPIRAL Nails- (16D) - 1/2 LB
- GALZANIZED OR STAINLESS SPIRAL NAILS (8D) - 1 LB

NOTES:

- LUMBER MUST BE TRUE DIMENSIONAL
- LUMBER MUST BE GREEN (FRESH CUT)
- CONCRETE BLOCKS MINIMUM WEIGHT: 35 LBS
- NOT TO SCALE
- ALL SIZES ARE APPROXIMATE
- FIT IN FIELD

PENNSYLVANIA ROOT WAD HUMP STANDARD DRAWING



MATERIALS AND SUGGESTED EQUIPMENT

MATERIALS:

ROOT WADS (10"-16" AT BASE) WITH 15' TRUNK-10 PIECES
R-8 SIZED STONE-12 TON

SUGGESTED EQUIPMENT:

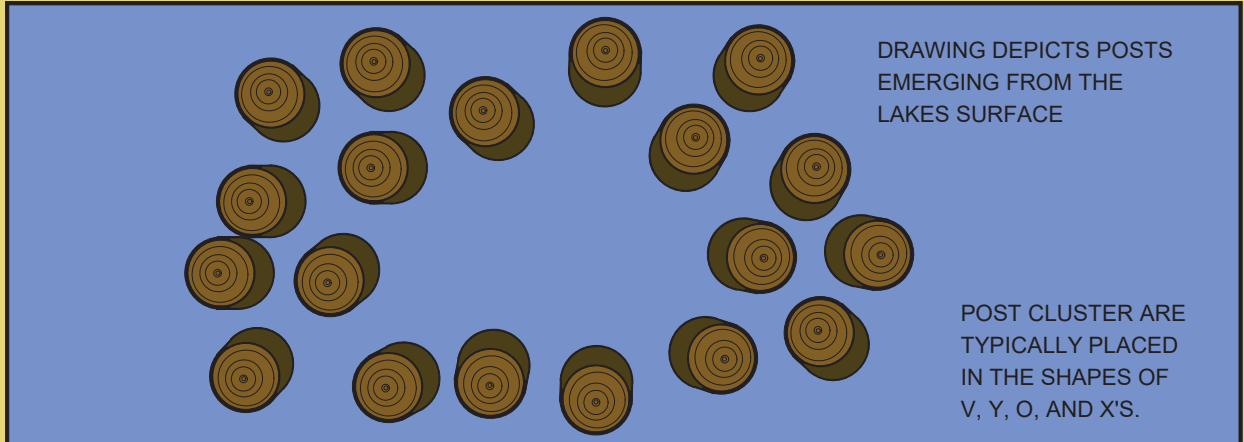
EXCAVATOR WITH THUMB
FRONT LOADER

NOTES

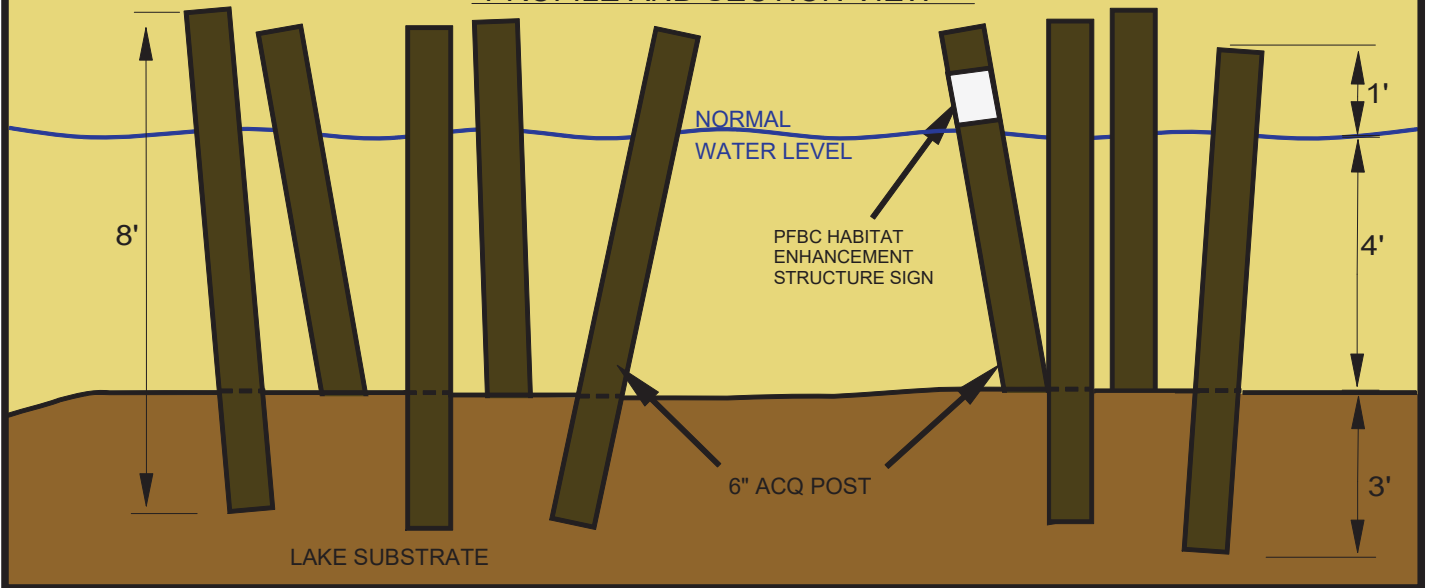
ROOT WADS WILL BE ENTRENCHED INTO THE SUBSTRATE
REMEMBER TO CALL THE PA DIG HOTLINE

PENNSYLVANIA POST CLUSTER STRUCTURE STANDARD DRAWING

PLAN VIEW



PROFILE AND SECTION VIEW



MATERIALS AND SUGGESTED EQUIPMENT

MATERIALS:

ACQ POST 6" X 8' - 1 PIECE

SUGGESTED EQUIPMENT:

EXCAVATOR

SKIDSTEER WITH FORKS

CHAINSAW

OPTIONAL: AUGER BIT FOR THE SKIDSTEER

NOTES

NOTES:

POSTS ARE POUNDED INTO A DRY LAKE BOTTOM

POSTS ARE PLACED USING AN EXCAVATOR

20 ACQ POST EQUAL 1 POST CLUSTER

SOME SUBSTRATES MAY NEED TO BE AUGERED

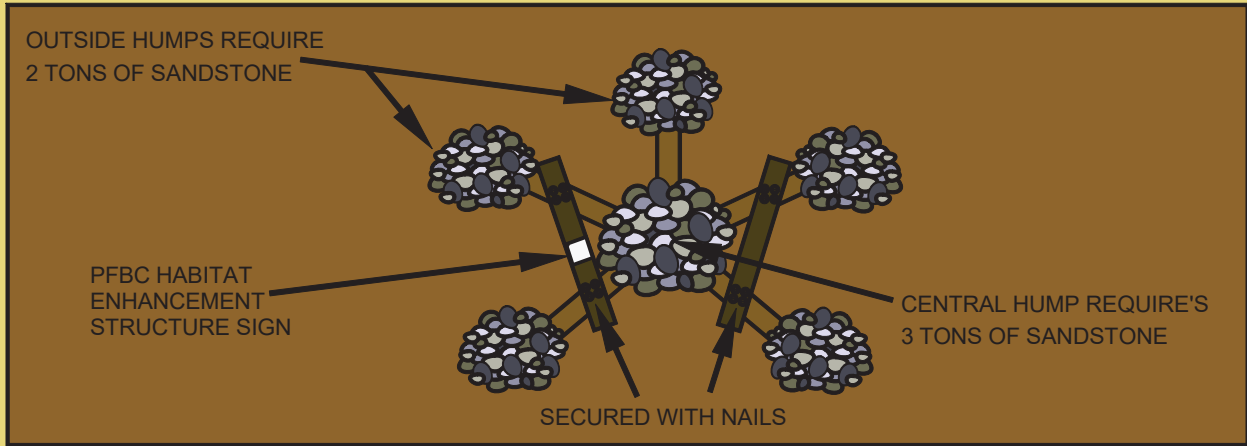
NOT TO SCALE

ALL SIZES ARE APPROXIMATE

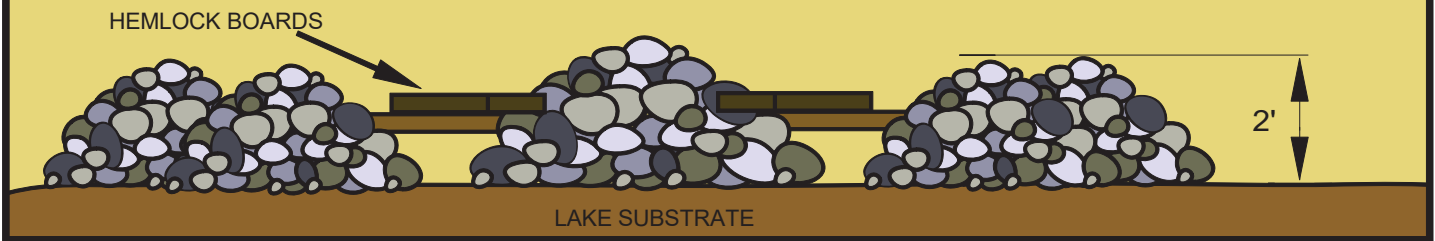
FIT IN FIELD

PENNSYLVANIA ROCK STAR STRUCTURE STANDARD DRAWING

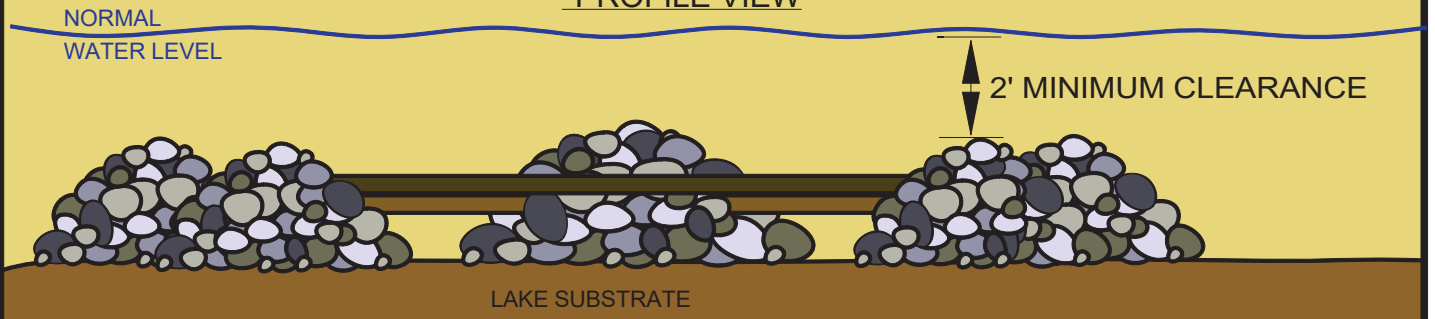
PLAN VIEW



SECTION VIEW



PROFILE VIEW



MATERIALS AND SUGGESTED EQUIPMENT

MATERIALS:

R4 SANDSTONE (6"-12") - 13 TONS
 ROUGH CUT HEMLOCK LUMBER 2" X 6" X 10' - 7 TOTAL
 16D COMMON NAILS - 20 TOTAL

SUGGESTED EQUIPMENT:

EXCAVATOR
 SKIDSTEER OR FRONTLOADER
 NAILGUN OR CLAW HAMMER

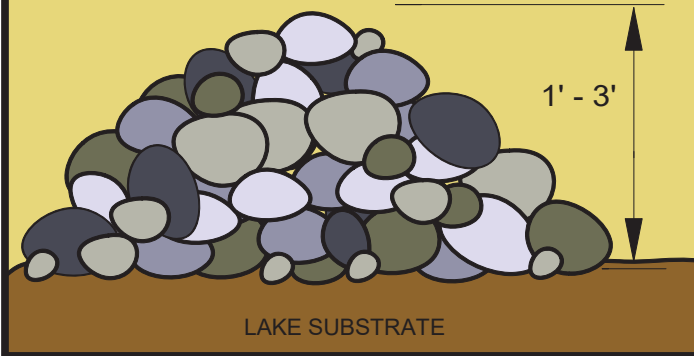
NOTES

NOTES:

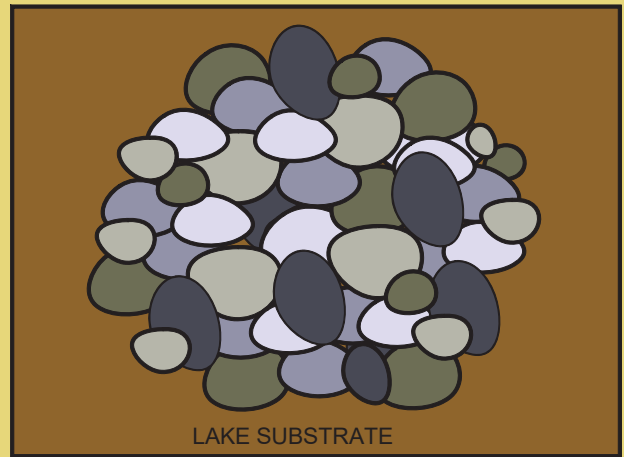
LUMBER MUST BE TRUE DIMENSIONAL
 LUMBER MUST BE GREEN (FRESH CUT)
 YELLOW POPLAR MAY BE SUBSTITUTED FOR HEMLOCK
 LIMESTONE CAN BE SUBSTITUTE FOR SANDSTONE
 NOT TO SCALE
 ALL SIZES ARE APPROXIMATE
 FIT IN FIELD

PENNSYLVANIA STYLE ROCK RUBBLE HUMPS STANDARD DRAWING

PROFILE & SECTION VIEW



PLAN VIEW



MATERIALS AND NOTES

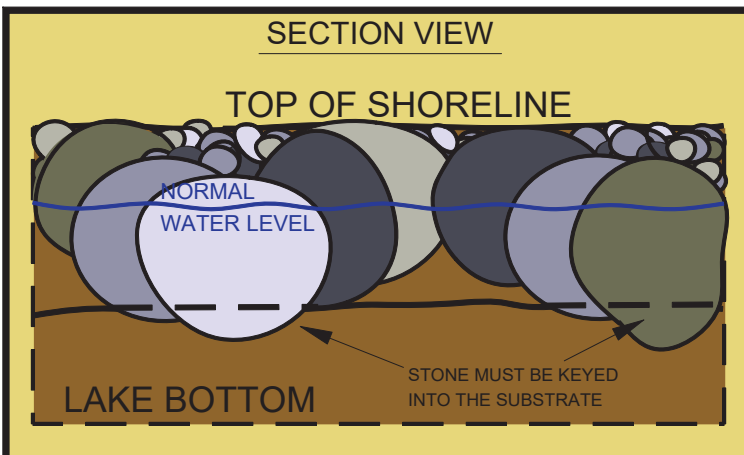
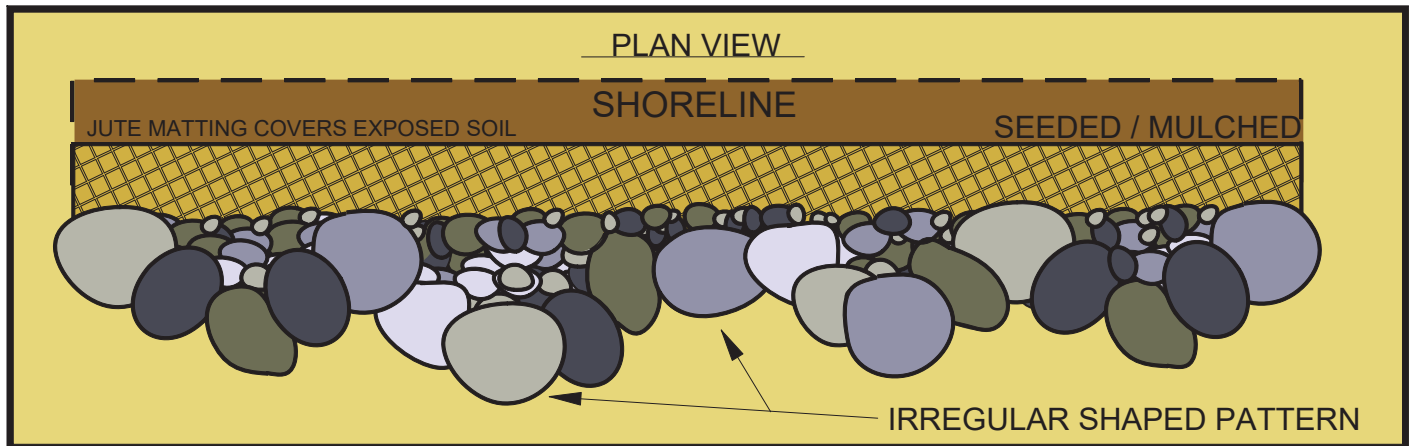
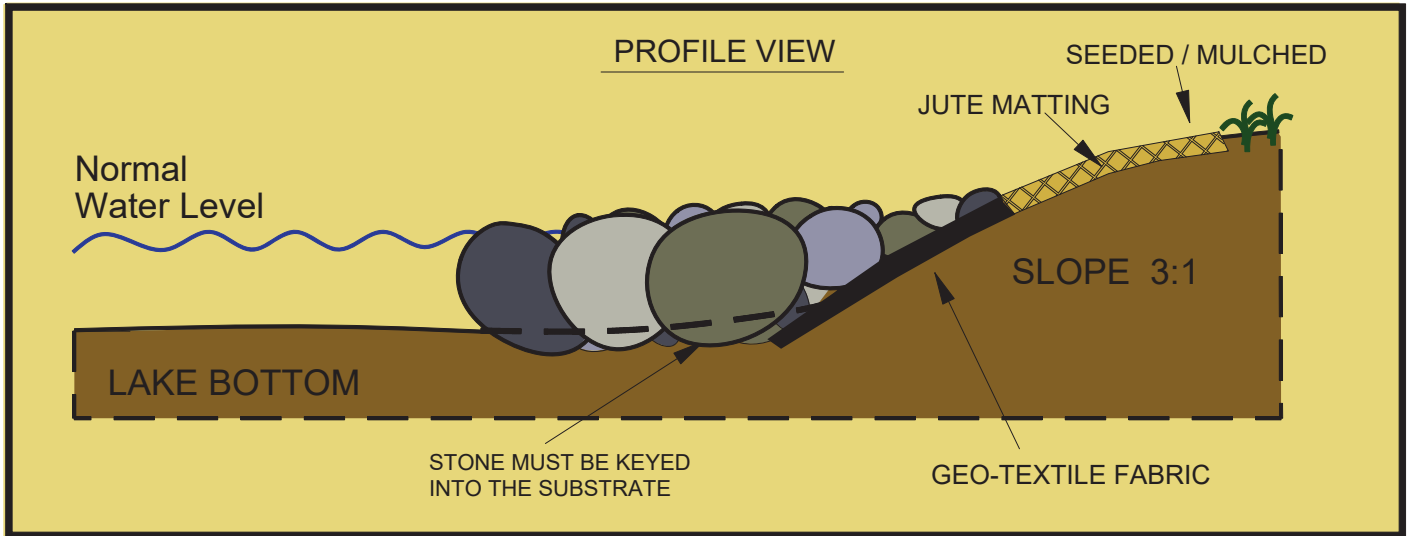
MATERIALS:

R4 SANDSTONE- (9"-18")

NOTES:

RECOMMENDED DENSITY IS 20 TONS/ACRE
PLACED IN 1-3 TON HUMPS
LIMESTONE CAN SUBSTITUTE SANDSTONE
NOT TO SCALE
ALL SIZES ARE APPROXIMATE
FIT IN FIELD

PENNSYLVANIA STYLE SAW-TOOTHED DEFLECTOR STANDARD DRAWING FOR LAKES



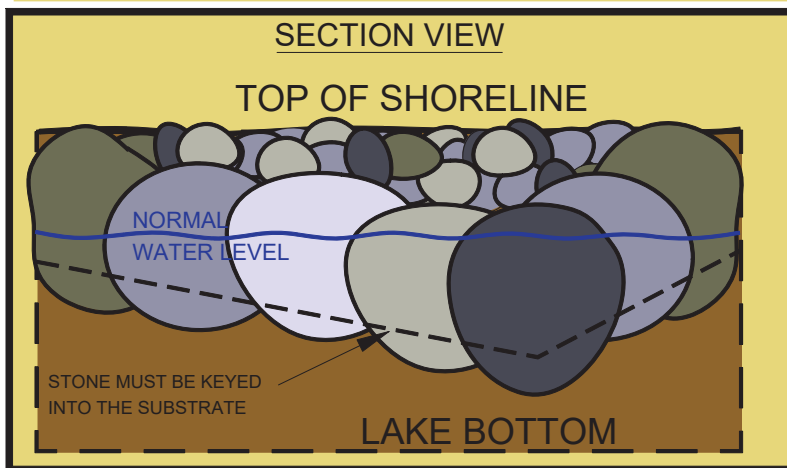
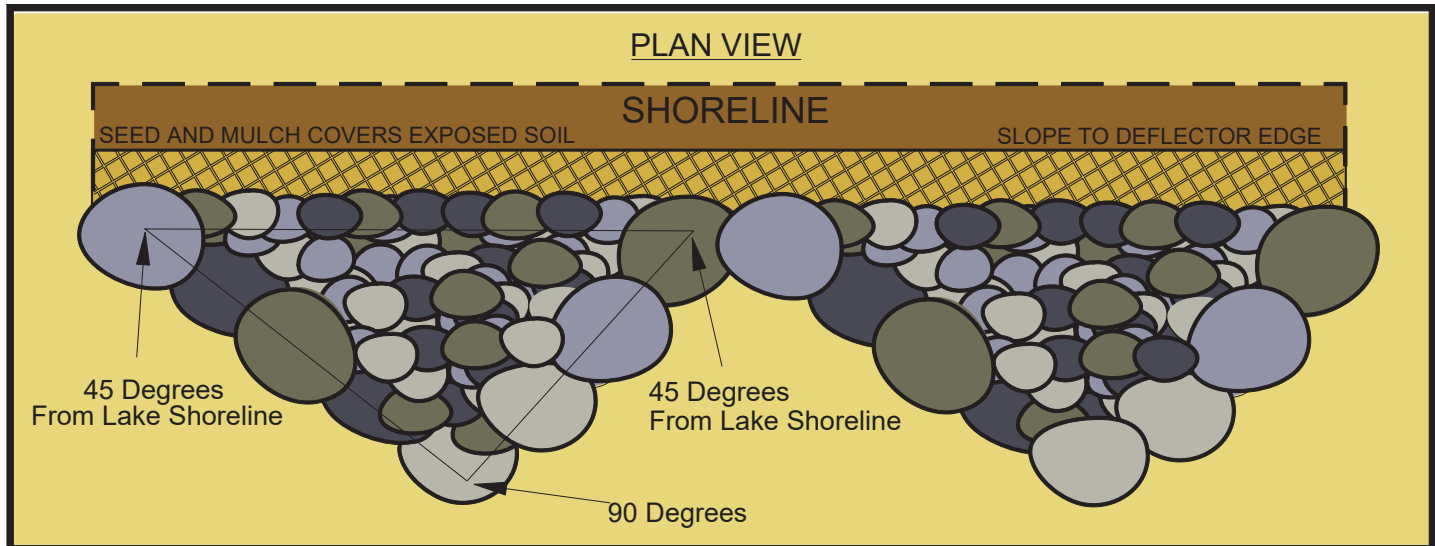
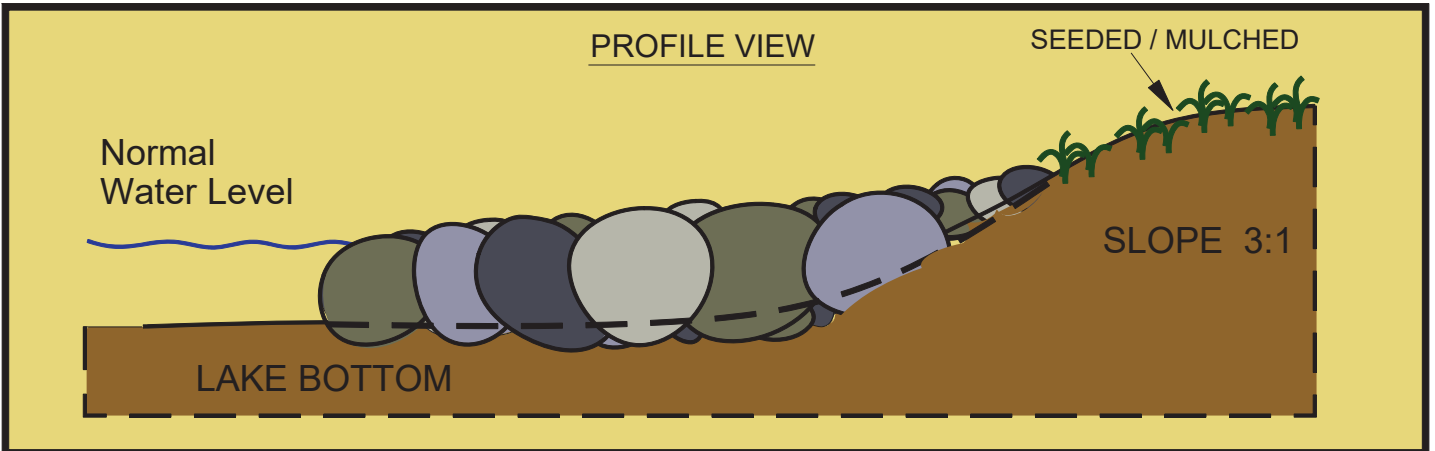
MATERIALS AND NOTES

MATERIALS:
R4 SANDSTONE (6"-12")
R5 SANDSTONE (9"-18")
JUTE MATTING
GEO-TEXTILE FABRIC

NOTES:
LIMESTONE CAN SUBSTITUTE SANDSTONE
DEFLECTORS ARE BLENDED INTO THE SHORELINE
JUTE MATTING WILL TEMPORARILY STABILIZE SHORE
RIPARIAN BUFFER MAY BE ESTABLISHED
NOT TO SCALE
ALL SIZES ARE APPROXIMATE
FIT IN FIELD

SUGGESTED EQUIPMENT:
EXCAVATOR WITH HYDRALIC THUMB
SKIDSTEER OR PAYLOADER

PENNSYLVANIA STYLE STONE FRAMED DEFLECTOR STANDARD DRAWING



MATERIALS AND NOTES

MATERIALS:
R8 SANDSTONE (40+")
R5 SANDSTONE (9"-18")
R4 SANDSTONE (6"-12")
2RC GRAVEL
OPTIONAL: LOG/ROOT WAD MAY BE ADDED

NOTES:
LIMESTONE CAN SUBSTITUTE SANDSTONE
LARGER STONES MAKE A TRIANGULAR FRAME
FRAME ROCKS SHOULD BE KEYED INTO LAKE SUBSTRATE
STONE FRAME IS BACK FILLED WITH SMALLER STONE
DEFLECTORS ARE BLENDED INTO THE SHORELINE
SEED AND MULCH ARE SPREAD OVER EXPOSED TOPSOIL
RIPARIAN BUFFER MAY BE ESTABLISHED
NOT TO SCALE
ALL SIZES ARE APPROXIMATE
FIT IN FIELD

SUGGESTED EQUIPMENT:
EXCAVATOR WITH THUMB
TRACKED LOADER OR SKIDSTEER