NOTES TO DESIGNER:

1. REFER TO PROJECT SPECIFIC DEEP FISHERIES COMMENTS FOR FURTHER DIRECTION AND RECOMMENDATION ON THE FISHERIES ENVIRONMENTS.

2. BOULDER SIZE IS TO BE SPECIFIED IN THE DETAILS. REPLACE "X" WITH SIZE AS SPECIFIED BY DEEP FISHERIES OR AS RECOMMENDED BY OFFICE OF ENVIRONMENTAL PLANNING (OEP). SIZE MAY BE SPECIFIED BY A MINIMUM DIAMETER OR A RANGE.

3. IF MULTIPLE CLUSTERS ARE PROPOSED, THE DISTANCE BETWEEN CLUSTERS WILL BE BASED ON FIELD CONDITIONS.

4. ALL WORK ASSOCIATED WITH THE PLACEMENT OF CHANNEL BOLDSER(S) TO BE PAID FOR UNDER SPECIAL PROVISION "PLACEMENT OF CHANNEL BOULDER." EXISTING OR NATURAL STREAMBED MATERIAL TO BE PAID FOR UNDER SPECIAL PROVISION "EXCAVATION AND REUSE OF EXISTING CHANNEL BOTTOM MATERIAL" AND, IF SPECIFIED "SUPPLEMENTAL STREAMBED MATERIAL"

5. BOULDERS SHALL BE PLACED WITHIN THE DEPARTMENT'S RIGHT-OF-WAY OR EASEMENT. BOULDERS SHALL NOT BE PLACED UNDER BRIDGES OR WITHIN CULVERTS.

6. THE LOCATION OF THE BOULDERS CAN BE SHOWN IN PLAN VIEW ON THE PROJECT DRAWINGS. THE PLAN VIEW SHOWN HERE IS NOT NECESSARY FOR THE DRAWING DETAILS, BUT GIVES GUIDANCE ON BOULDER ARRANGEMENT. THE SECTION VIEW, HOWEVER, SHOULD BE PROVIDED ON THE PROJECT DRAWINGS.

NOTES

1. ROUNDER BOULDER(S) APPROXIMATELY "X" FT. HIGHER DIAMETER SHALL BE PLACED IN CLUSTER AS DIRECTED IN THE FIELD BY THE ENGINEER OR THEIR AUTHORIZED DELEGATE. SEE SPECIAL PROVISION "PLACEMENT OF CHANNEL BOULDER".

2. FOR MULTIPLE CLUSTERS, THE DISTANCE BETWEEN CLUSTERS WILL BE BASED ON FIELD CONDITIONS.

SPACING OF BOULDERS IS VARIABLE AND SHALL BE DETERMINED BY THE ENGINEER OR THEIR AUTHORIZED DELEGATE.

EXISTING STREAMBED OR NATURAL STREAMBED MATERIAL (TO BE SPECIFIED PER PROJECT DESIGN)

BOULDERS TO BE PLACED APPROXIMATELY 6-12 INCHES BELOW STREAMBED ELEVATION.

PLACEMENT OF CHANNEL BOULDERS

PLAN VIEW

SECTION VIEW

N.T.S.