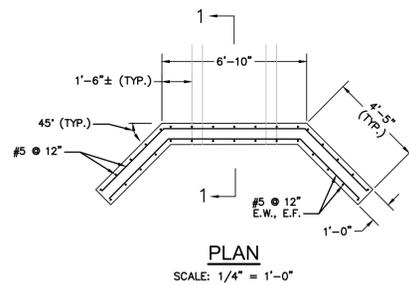
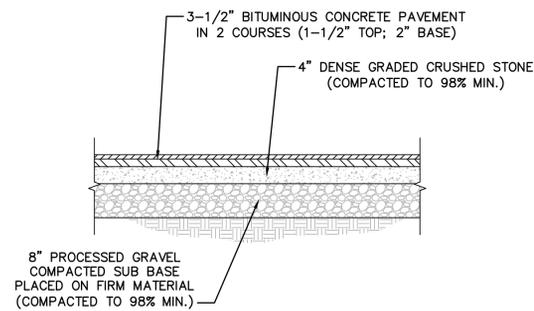


**DE-WATERING / STILLING BASIN**  
NOT TO SCALE



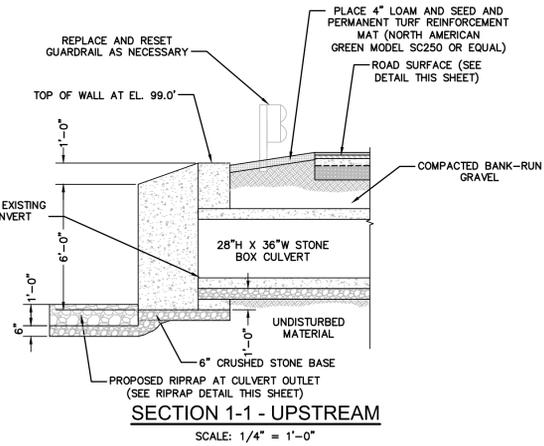
**PLAN**  
SCALE: 1/4" = 1'-0"

**PROPOSED CAST-IN-PLACE HEAD & WING WALL**



NOTE: REFER TO PROPOSED CONDITIONS FOR ROADWAY AND SHOULDER GRADING.

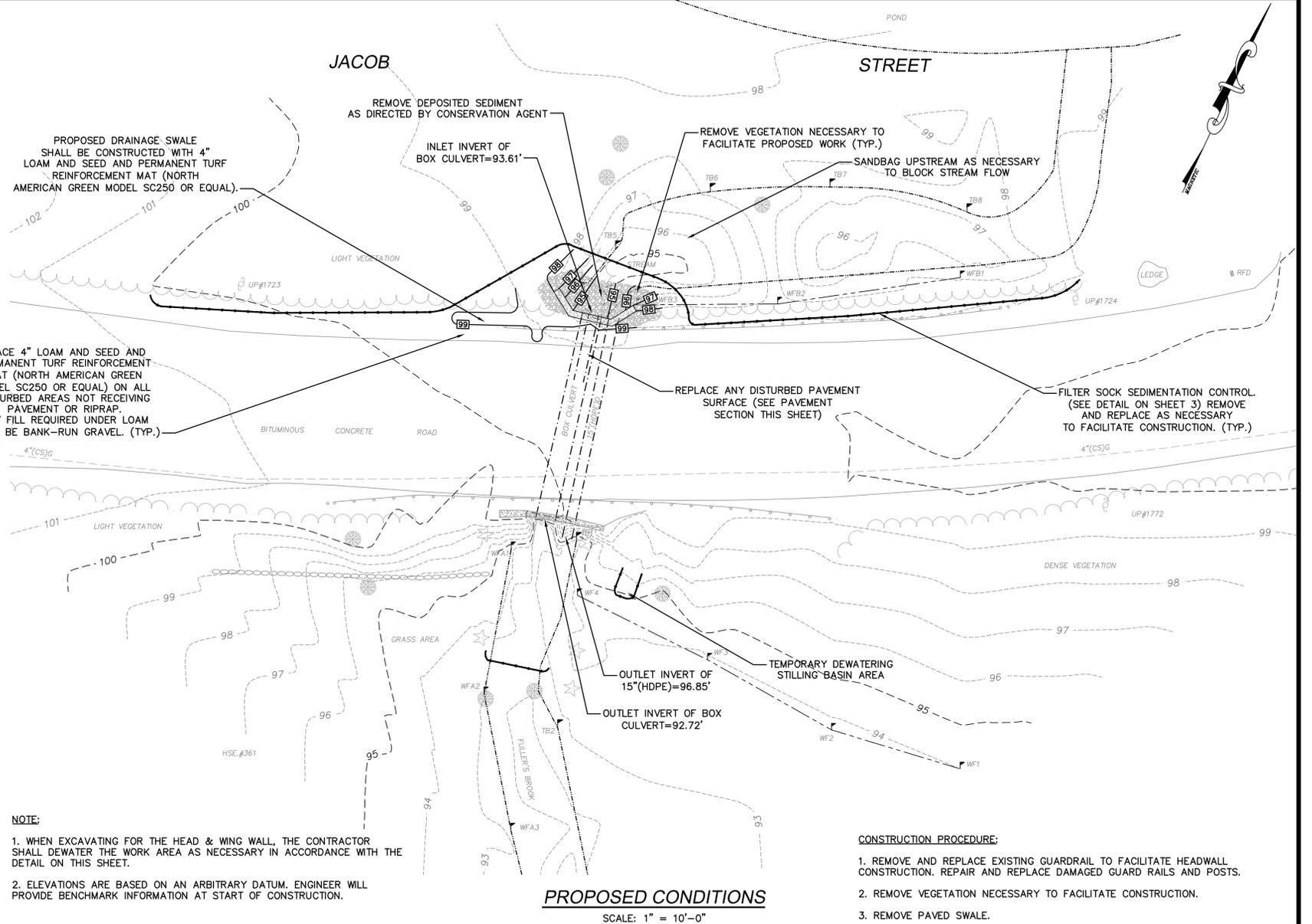
**TYPICAL PAVEMENT SECTION**  
NOT TO SCALE



**SECTION 1-1 - UPSTREAM**  
SCALE: 1/4" = 1'-0"

PLACE 4" LOAM AND SEED AND PERMANENT TURF REINFORCEMENT MAT (NORTH AMERICAN GREEN MODEL SC250 OR EQUAL) ON ALL DISTURBED AREAS NOT RECEIVING PAVEMENT OR RIPRAP. ANY FILL REQUIRED UNDER LOAM SHALL BE BANK-RUN GRAVEL (TYP.)

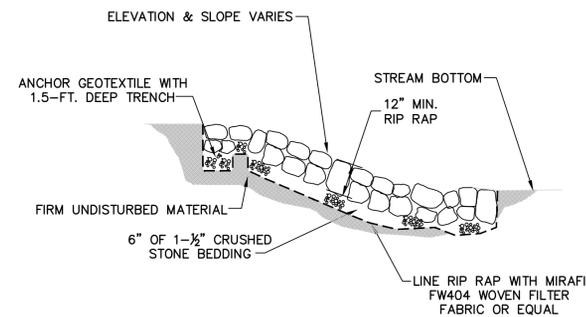
- NOTE:**
1. WHEN EXCAVATING FOR THE HEAD & WING WALL, THE CONTRACTOR SHALL DEWATER THE WORK AREA AS NECESSARY IN ACCORDANCE WITH THE DETAIL ON THIS SHEET.
  2. ELEVATIONS ARE BASED ON AN ARBITRARY DATUM. ENGINEER WILL PROVIDE BENCHMARK INFORMATION AT START OF CONSTRUCTION.



**PROPOSED CONDITIONS**  
SCALE: 1" = 10'-0"

**CONSTRUCTION PROCEDURE:**

1. REMOVE AND REPLACE EXISTING GUARDRAIL TO FACILITATE HEADWALL CONSTRUCTION. REPAIR AND REPLACE DAMAGED GUARD RAILS AND POSTS.
2. REMOVE VEGETATION NECESSARY TO FACILITATE CONSTRUCTION.
3. REMOVE PAVED SWALE.
4. PROVIDE APPROVED MEANS OF PASSING STREAM FLOW PAST WORK AREA WHILE WORK IS IN PROGRESS. NO WORK SHALL BE DONE IN FLOWING WATER.
5. REMOVE UPSTREAM HEADWALL. EXPOSE BOX CULVERT AND 24" CORRUGATED METAL PIPE.
6. REMOVE EXISTING 24" CORRUGATED METAL PIPE WITHIN BOX CULVERT. REBUILD BOX CULVERT WITH STONE. ASSUME REPLACEMENT OF 10'-FT. OF STONE BOX CULVERT.
7. REMOVE DEPOSITED SEDIMENT AT CULVERT INLET TO A DEPTH TO MEET THE INVERT. CONSERVATION AGENT WILL INSTRUCT CONTRACTOR ON LIMITS AND AMOUNT OF MATERIAL TO REMOVE.
8. PLACE HEAD AND WING WALL STRUCTURE. SEE THIS SHEET FOR DETAILS.
9. WHEN CONCRETE IS ADEQUATELY SET, BACKFILL HEAD AND WING WALL STRUCTURE.
10. REPLACE PAVEMENT IN ACCORDANCE WITH THE DETAIL ON THIS SHEET.
11. RIPRAP SLOPES AS INDICATED.



NOTE: RIPRAP SHALL CONFORM TO MASS DOT STANDARD SPECIFICATION M2.02.3.

**RIPRAP DETAIL**  
NOT TO SCALE

REVISIONS		
NO.	ITEM	DATE
1.	ISSUED FOR PERMITTING	11/22/10
2.	CONSERVATION COMMISSION COMMENTS	12/23/10
3.	ISSUED FOR BIDDING	1/21/11



**AMORY ENGINEERS, P.C.**  
DUXBURY, MASSACHUSETTS

DRAWN BY: AJR/RJT	FILE NAME: AS SHOWN	SCALE: AS SHOWN
DESIGNED BY: RJT	JOB NO.: 3455	DWG. NO.: 1581
CHECKED BY: DAJ	DATE: 11/15/10	CONTRACT: #DPW 11-5

DEPARTMENT OF PUBLIC WORKS SEEKONK, MASSACHUSETTS	CIVIL
HEADWALL REPAIR AND APPURTENANT WORK	SHEET
JACOB STREET PROPOSED PLAN, SECTION AND DETAILS	4 OF 6