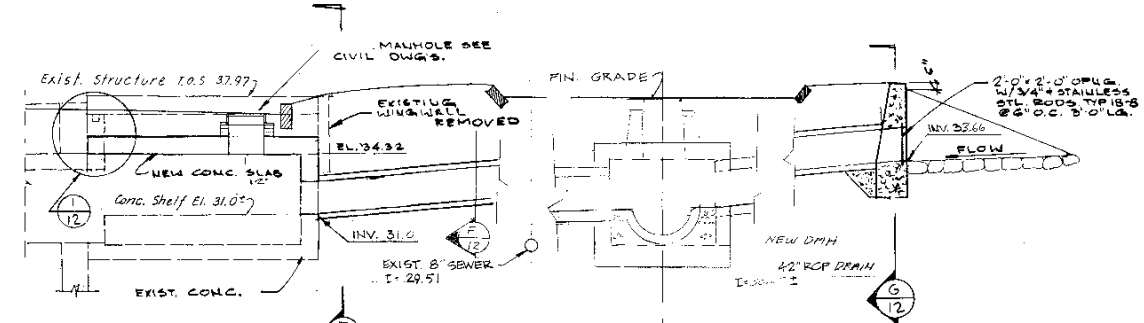
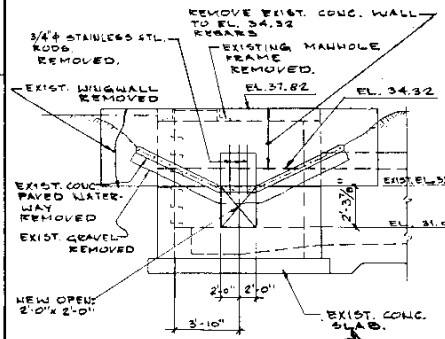


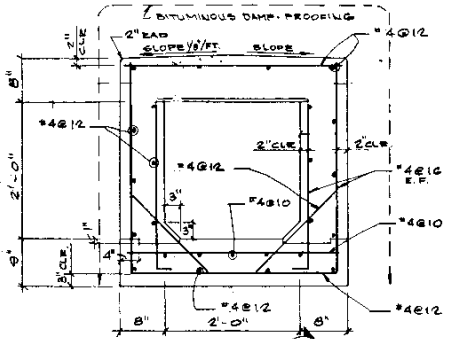
SECTION C
SCALE: 1/4" = 1'-0"



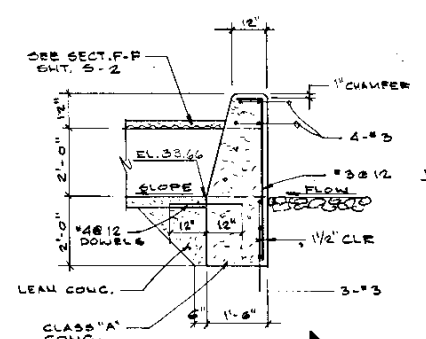
SECTION D
SCALE: 1/4" = 1'-0"



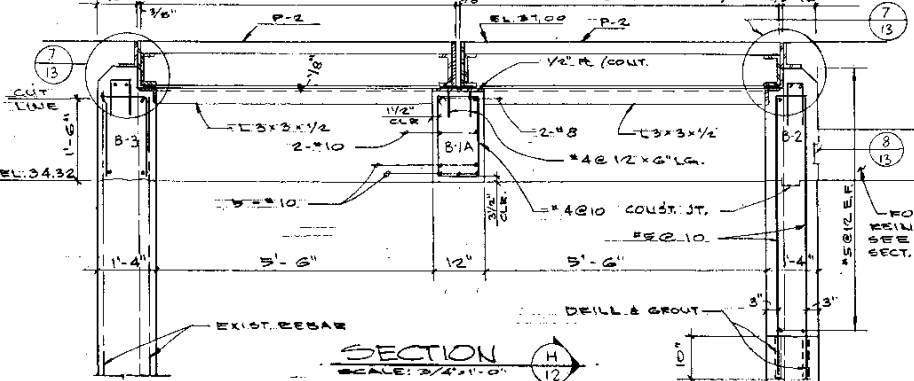
EXISTING SECT. E
SCALE: 1/4" = 1'-0"



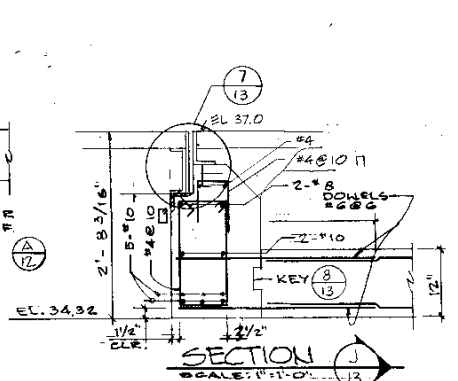
SECTION F
SCALE: 1" = 1'-0"



SECTION G
SCALE: 1/2" = 1'-0"

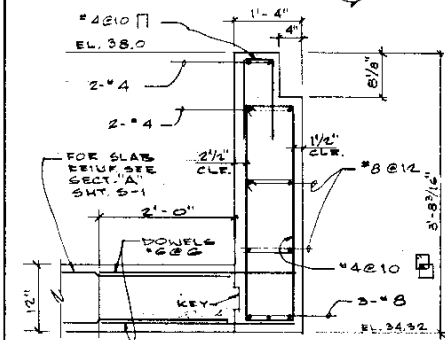


SECTION H
SCALE: 3/4" = 1'-0"

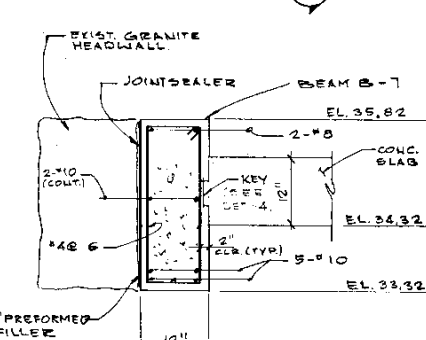


SECTION J
SCALE: 1" = 1'-0"

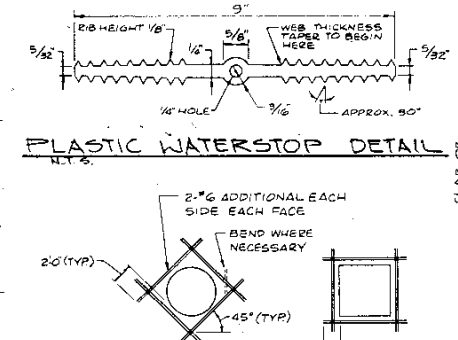
NOTE: CONTRACTOR SUBMITTED PRECAST CONC. CULVERT IN LIEU OF CAST IN PLACE APPROVED BY THE ENGINEER
2. HORIZONTAL REBARS SHALL EXTEND INTO CHAMBER WALL



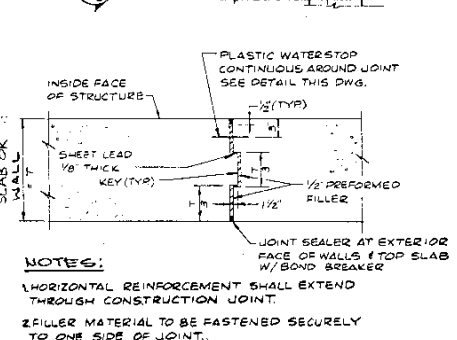
SECTION K
SCALE: 1" = 1'-0"



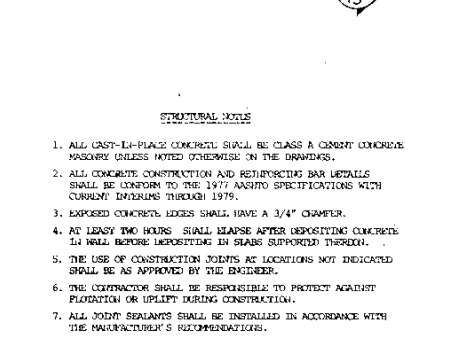
DETAIL I
SCALE: 1" = 1'-0"



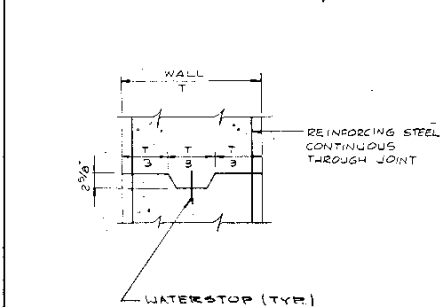
PLASTIC WATERSTOP DETAIL
SCALE: 1/2" = 1'-0"



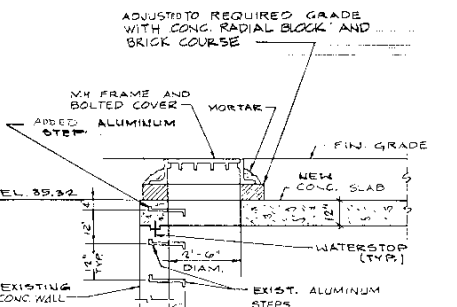
EXP. JOINT & VERT. CONST. JOINT
SCALE: 1/2" = 1'-0"



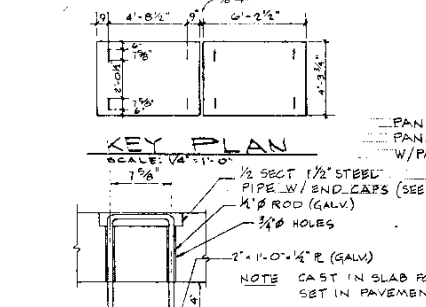
TYP. PRECAST PANEL DETAIL
SCALE: 3/4" = 1'-0"



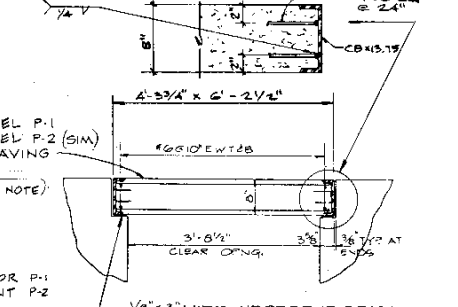
HORIZ. CONSTRUCTION JOINT
SCALE: 1" = 1'-0"



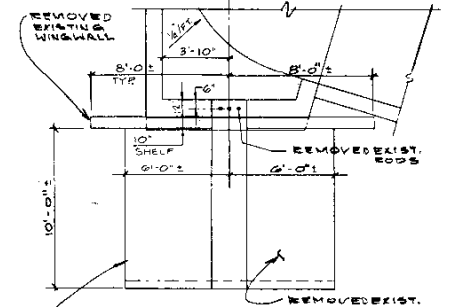
TYP. MANHOLE DETAIL
SCALE: 1/4" = 1'-0"



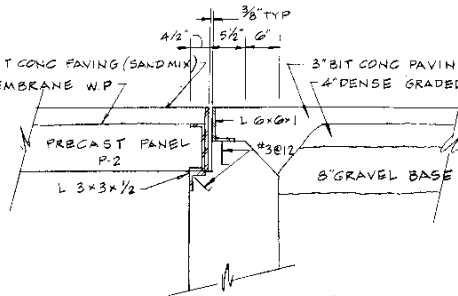
TYP. LIFTING HANDLE DETAIL
SCALE: 1/2" = 1'-0"



TYP. PRECAST PANEL DETAIL
SCALE: 3/4" = 1'-0"



EXISTING PART PLAN (ROOF)
SCALE: 1/4" = 1'-0"



DETAIL L
SCALE: 1" = 1'-0"

- STRUCTURAL NOTES
1. ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS A CONCRETE UNLESS NOTED OTHERWISE IN THE DRAWINGS.
 2. ALL CONCRETE CONSTRUCTION AND REINFORCING BAR DETAILS SHALL BE CONFORM TO THE 1977 ACI CODE SPECIFICATIONS WITH CURRENT AMENDMENTS THROUGH 1979.
 3. EXPOSED CONCRETE EDGES SHALL HAVE A 1/4" CHAMFER.
 4. AT LEAST TWO HOURS SHALL ELAPSE AFTER DEPOSITING CONCRETE IN WALL BEFORE DEPOSITING IN SLABS SUPPORTED THEREON.
 5. THE USE OF CONSTRUCTION JOINTS AT LOCATIONS NOT INDICATED SHALL BE AS APPROVED BY THE ENGINEER.
 6. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AGAINST FLOODING OR UPLIFT DURING CONSTRUCTION.
 7. ALL JOINT SEALANTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

- DESIGN LOADS:
- UNIT WEIGHT OF SOIL = 130 P.C.F.
SOIL LATERAL LOADS:
(EQUIVALENT FLUID PRESSURES)
MINIMUM = 100 P.C.F., SATURATED
MINIMUM = 65 P.C.F., DRY
MINIMUM = 30 P.C.F.
- DESIGN CRITERIA
- ASRHO 1977 DESIGN SPECIFICATIONS
WORKING STRESS DESIGN METHOD
- ALL STRUCTURES SHALL BE DESIGNED FOR VARIOUS MINIMUM AND MAXIMUM LOAD CONDITIONS TO PRODUCE MAXIMUM STRESS AND RESULTING MOMENTS.
- PRECAST CONCRETE:
f_c = 2000 psi K = 326
j = 0.876 V_c = 67 psi
f_s = 24,000 psi
- CAST-IN-PLACE CONCRETE:
f_c = 1200 psi K = 169
j = 0.895 V_c = 52 psi
f_s = 24,000 psi
- MH FRAMES, COVERS / GRATES SHALL BE H-20 LOADING

- VIBRATORY COMPACTION EQUIPMENT SHALL NOT BE USED ON THE FINE AGGREGATE AND CRUSHED STONE.
- BACKFILL WITH SUITABLE EXCAVATED MATERIAL OR WITH ACCEPTABLE REPLACEMENT MATERIAL.

CENTRE ST. / CROWN COLONY DRIVE
STREET RECONSTRUCTION
QUINCY, MA
DRAINAGE CONTROL STRUCTURE
MODIFICATIONS-SECTIONS
AND DETAILS

AS BUILT BY
D.W. WHITE CONSTRUCTION
864 MIDDLE ROAD
ACUSHNET, MA. MARCH 1991

ISSUE	DATE	DESCRIPTION	BY	CHKD	APP

DATE: 3-27-89
SCALE: AS NOTED
SHEET 2 OF 2