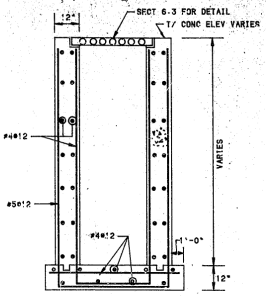
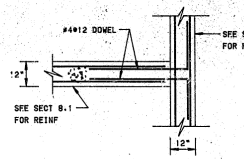
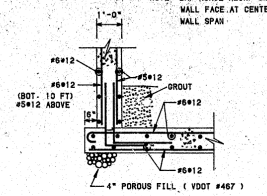


SECTION 8.1 / 6
NO SCALE



SECTION 8.2 / 6
NO SCALE

NOTE: LAP HORIZ REINF ON OUTSIDE WALL FACE AT CENTERLINE OF WALL SPAN



NOTE: REINF TYP 4 WALLS

SECTION 8.3 / 6
NO SCALE

STRUCTURAL GENERAL NOTES

1. MATERIAL DESIGN STRENGTHS:
   ALL CAST-IN-PLACE CONCRETE..... f'c= 4,000 PSI
   REINFORCING STEEL, DEFORMED (GRADE 60)..... Fy= 60,000 PSI
   STRUCTURAL STEEL (ASTM A36)..... Fy= 36,000 PSI
   STEEL P,PE..... Fy= 36,000 PSI

2. ACI 318-83 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, NOVEMBER 1, 1978". VIRGINIA UNIFORM STATEWIDE BUILDING CODE (BOCA 1987)

3. BACKFILLING ADJACENT TO FOUNDATION WALLS SHALL NOT OCCUR UNTIL CONCRETE HAS REACHED 70 PERCENT OF ITS 28-DAY DESIGN COMPRESSIVE STRENGTH.

4. CHAMFER ALL EXPOSED EDGES OF CONCRETE 1 INCH.

5. ALL REINFORCING SHALL BE DETAILED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 315-80 UNLESS OTHERWISE NOTED. ALL SPLICES SHALL BE CLASS C TENSION UNLESS OTHERWISE NOTED. SPLICES NOT INDICATED MAY BE PROVIDED IF PROPERLY DETAILED ON THE SHOP DRAWINGS AND APPROVED BY THE ENGINEER. EMBEDMENT LENGTHS SHALL BE EQUAL TO TENSION DEVELOPMENT LENGTHS UNLESS OTHERWISE NOTED. DOWELS IN WALLS SHALL MATCH SIZE AND SPACING OF MAIN REINFORCING BARS UNLESS OTHERWISE NOTED. CONCRETE PROTECTION FOR REINFORCEMENT SHALL CONFORM TO ACI 301-84 (REVISED 1985) AND SHALL BE INDICATED ON THE SHOP DRAWINGS.

6. MAJOR CONSTRUCTION JOINTS ARE SHOWN. INTERMEDIATE JOINTS IN WALLS AND SLABS ARE NOT SHOWN UNLESS REQUIRED BY THE DESIGN. CONSTRUCTION JOINTS MAY BE OMITTED OR RELOCATED IF PROPERLY DETAILED ON THE SHOP DRAWINGS AND APPROVED BY THE ENGINEER.

7. STRUCTURAL STEEL WORK SHALL MEET THE REQUIREMENTS OF AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS AND AWS CODE D1.1. MINOR MEMBERS AND CONNECTIONS FOR ANY PORTION OF THE STRUCTURE NOT INDICATED ON THE DRAWINGS SHALL BE COMPLETED BY THE FABRICATOR. SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL.

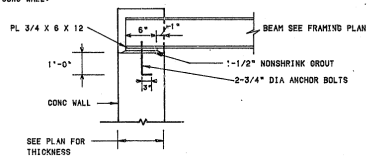
8. STRUCTURAL STEEL INCLUDING NONHEADED ANCHOR BOLTS SHALL MEET REQUIREMENTS OF ASTM A 36 "SPECIFICATION FOR STRUCTURAL STEEL" HIGH STRENGTH STEEL BOLTS AND NUTS SHALL MEET THE REQUIREMENTS OF ASTM A 325.

9. CONNECTIONS NOT INDICATED ON THE DRAWINGS SHALL BE AISC STANDARD FRAMED BEAM CONNECTIONS AS SHOWN IN THE "MANUAL OF STEEL CONSTRUCTION" PUBLISHED BY THE AISC. FIELD CONNECTIONS SHALL BE BOLTED USING HIGH STRENGTH BOLTS.

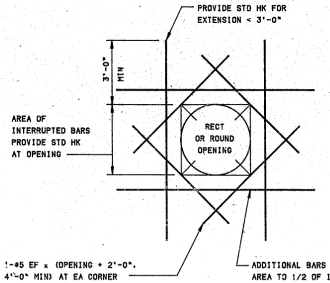
10. ALL GRATING AND HANDRAIL SHALL BE ALUMINUM, ALL ALUMINUM IN CONTACT WITH CONCRETE SHALL BE COATED WITH BITUMASTIC. UNLESS OTHERWISE NOTED.

11. ALL EXPOSED STEEL AND HIGH STRENGTH BOLTS SHALL BE GALVANIZED PER ASTM A525, G90 AS INDICATED. EXCEPT WHERE STAINLESS STEEL IS INDICATED.

FILL VOID WITH AFTER BEAM IS IN PLACE. USE 8" DEEP POCKET FOR CONC WALL.



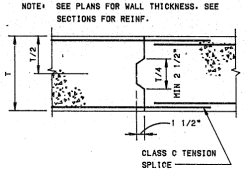
TYPICAL BEARING PLATE DETAIL
NO SCALE



NOTE: BARS INDICATED ARE NOT REQ'D @ OPENINGS OF 10" OR LESS DEFLECT BARS AROUND OPNG.

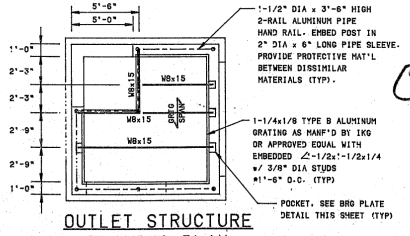
TYPICAL WALL AND SLAB OPENING DETAIL
NOT TO SCALE

NOTE: SEE PLANS FOR WALL THICKNESS. SEE SECTIONS FOR REINF.



SINGLE CURTAIN REINF SHALL BE DETAILED SIMILARLY

TYPICAL WALL CONSTRUCTION JOINT DETAIL
NOT TO SCALE



OUTLET STRUCTURE FRAMING PLAN
SCALE: 1/4" = 1'-0"

SEP 1988 DIVISION OF WATER PROGRAMS LEXINGTON REGIONAL OFFICE

AUG 1989 DIVISION OF WATER PROGRAMS LEXINGTON REGIONAL OFFICE

COMMONWEALTH OF VIRGINIA
STEWART W. HUBBELL
No. 07420
PROFESSIONAL ENGINEER

021-3991.1 23/36

REVISION	DATE	DESCRIPTION	BY	APP.

DSGN SPM
DRAWN JBR
CHKD SWH

GLADETOWN NEIGHBORHOOD IMPROVEMENTS
DRAINAGE, WATER, SEWER, STREET IMPROVEMENTS
DETAILS: OUTLET STRUCTURE, DETENTION BASIN
TOWN OF VINTON, VIRGINIA

Mattern & Craig
CONSULTING ENGINEERS
SURVEYORS

SCALE: AS NOTED
PROJ. NO. 8279
DATE: JULY, 1989
SHEET 20C
DRAWING # 190