

DOME SHELL THICKNESS: 3" AT 4'0" FROM WALL

1 1/2-SB-1 WIRE BAR SUPPORT ALL AROUND AT 5' FROM DOME EDGE TO SUPPORT RESTEEL

FIELD BEND OUTSIDE VERTICAL RESTEEL TO PROVIDE 1" MINIMUM AND 2" MAXIMUM COVER

EL. 1302.50 TOW
TOP OF STEEL
SHELL DIAPHRAGM

SPRINGLINE

LIMIT OF DOME BAND
PRESTRESSING WIRES

OUTSIDE VERTICAL RESTEEL

CORE WALL = 3 1/2" AT TOP OF WALL

DOME RING DETAILSHOOT MIN. OF 1" COVER COAT OVER
PRESTRESSING WIRES

PRESTRESSING WIRES

HORIZONTAL CIRCUMFERENTIAL RESTEEL
BOTTOM 3' OF WALLOUTSIDE VERTICAL RESTEEL: #5 @ 8"
ALTERNATE 31' & 33' LONG BARS
(270 EA. REQ.)SHOOT MIN. 1/8" COVER BETWEEN
VERTICAL BARS & PRESTRESSING WIRES
AND BETWEEN EACH LAYER OF
PRESTRESSING WIRES**HORIZONTAL WALL SECTION**

CORE WALL = 11" AT BASE OF WALL

INSIDE VERTICAL RESTEEL

OUTSIDE VERTICAL RESTEEL

PRESTRESSING WIRES

11-#5 CIRCUMFERENTIAL BARS IN TWO
LAYERS AT 6 1/2" (OUTSIDE)1/2" THICK R-1800-FS
RUBATEX. FILL ALL JOINTS
WITH MASTIC OR CAULKING.SMOOTH TROWEL FINISH UNDER
ALL RUBATEX PADS

LIMIT OF PRESTRESSING WIRES

EL. 1275.08

6-#5 @ 7" ± OC
CIRCUMFERENTIALLYCONSTR. GR.
EL. 1274.13

4-#5-CHCU-3

6-#5 @ 7" ± OC
CIRCUMFERENTIALLY

2-SBP-3 AT 4' C/C

59'6" SLAB RADIUS

FLOOR-WALL DETAIL**TYPICAL WALL DETAILS**4x4 W3.0 x W3.0 WELDED
WIRE FABRIC EXTENDED
OVER DIAPHRAGM TO WITHIN
1 1/2" OF DOME EDGE

4-#5 CIRCUMFERENTIAL BARS AT 6"

- NOTES: 1. SEAL DOME RIB BRACKET ANCHORS
WITH "THORITE"
2. SANDBLAST TOP OF CORE WALL AND
IMMEDIATELY PRIOR TO CASTING DOME
COAT WITH BONDING EPOXY (580)

103 CONTINUOUS SHEETS 27'0" LONG OF 26 GAUGE
STEEL SHELL DIAPHRAGM. NO HORIZONTAL JOINTS.

1" COVER OVER DIAPHRAGM, RIPLE PATTERN ACCEPTABLE

112'0" ID

26 GAUGE STEEL SHELL DIAPHRAGM:
SEAL FROM BOTTOM TO TOP BY EPOXY
INJECTION PER U.S. PATENT No. 5,150,551.
NO HORIZONTAL JOINTS ALLOWED.INSIDE VERTICAL RESTEEL: #4 @ 12"
ALTERNATE 22' & 24' LONG BARS
HELD IN PLACE WITH SPECIAL CLIPS
(180 EA. REQ.)

26 GAUGE STEEL SHELL DIAPHRAGM

SHOOT MIN. 1" COVER OVER INSIDE
CIRCUMFERENTIAL BARS

3-#5 CIRCUMFERENTIAL (INSIDE)

8 1/4-CHCU-3 AT BASE OF WALL AND
8 1/4-CHCU-3 AT EL. 1284.22 BETWEEN
INSIDE AND OUTSIDE VERTICAL RESTEEL
AND 4-CHCU-3 AT EL. 1292.90 BETWEEN
DIAPHRAGM AND OUTSIDE VERTICAL RESTEEL

RESTRAINT CABLE (17/18)

SUPERSTOP (8/7)

#5 RADIAL BARS @ 8" OC x 4'8" MEASURED
AT 59'4" RADIUS (560 REQ.)8-#5 CIRCUMFERENTIALLY
@ 8" ± OC

4'8" 3'0" 1'3"

1'3" CLEAR

51'10" RADIUS

EL. FIN. FL. 1274.50

FLOOR STEEL
#4 @ 8" OCEW
TO 59'4" RADIUS

4'1/2"

56'1" RADIUS
TO C SUPERSTOP

#5 RADIAL BARS @ 8" OC (EXCEPT 6" OC AT SUMP)

(MEASURED @ 55'11" RADIUS)

1'0" 3'0" 6 3/4"

(546 REQ.)

TRANSITION RESTEEL IN THIS AREA
TO 59'4" RADIUS IN SAME PLANE
AS FLOOR RESTEEL, #4 @ 8"

x 16'0" LONG (548 REQ.)

NOTES:

- SHOTCRETE SHALL BE APPLIED BY
OR UNDER DIRECT SUPERVISION OF
NOZZLEMEN CERTIFIED IN ACCORDANCE
WITH ACI GUIDELINES
- TENSION IN PRESTRESSING WIRE SHALL
BE MEASURED BY AN ELECTRONIC
DIRECT-READING STRESSOMETER
ACCURATE TO WITHIN 1%

3" CONCRETE DOME WITH 4x4 W3.0 x W3.0 WELDED
WIRE FABRIC ON 1 1/2-SB-1 WIRE BAR SUPPORTS
SPACED AT 4' c/cACCESS HATCH WITH
FIBERGLASS COVER

EL. HWL 1302.50

SEE DOME RING
DETAIL THIS SHEET26 GAUGE STEEL SHELL DIAPHRAGM:
SEAL FROM BOTTOM TO TOP BY
EPOXY INJECTION PER U.S. PATENT
No. 5,150,551. NO HORIZONTAL
JOINTS ALLOWED.

1" COVER OVER STEEL DIAPHRAGM

PRESTRESSED COMPOSITE WALL:
STEEL SHELL/SHOTCRETE CONSTRUCTIONEL. 1291.50 FOR
14" DIP PUMP DISCHARGE
LINE (6 REQ.)

112'0" INSIDE DIAMETER

EL. 1286.67 FOR
42" DIP INLETSEE HORIZONTAL WALL SECTION
THIS SHEETCORE WALL TAPERS FROM 11"
AT BOTTOM TO 3 1/2" AT TOPSOFT BROOM FINISH INSIDE AND
OUTSIDE, RIPLE PATTERN
ACCEPTABLE INSIDE

EL. 1278.33 SS WALL MANHOLE

EL. 1278.17 FOR 10" DIP
SURGE RELIEF VALVE LINE
(2 REQ.)

EL. FIN. FL. 1274.50

SEE FLOOR-WALL
DETAIL THIS SHEET4 1/2" CONCRETE FLOOR WITH #4 @ 8"
EACH WAY. SOFT BROOM FINISH**PRESTRESSING SCHEDULE**

2' 0 1' 2'
SCALE 3/8"=1'0"

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DATE: 03-21-95

DRAWN: PJK

CHECKED: [Signature]

APPROVED: [Signature]

DESIGNED: JSW

TANK DESCRIPTION:

2.0-MG CLEAR WELL

TANK DIMENSIONS:

112'0" ID x 28'0" SWD

TANK BUILDER:

THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:

COUNTY OF
ROANOKE
VIRGINIA

CONSULTING ENGINEER:

ROANOKE COUNTY
UTILITY DEPARTMENTREV. DESCRIPTION DATE
CHK. BY

WHERE STANDARD SPECIFICATIONS ARE
IN CONFLICT WITH CROM CORPORATION
SPECIFICATIONS OR WITH GOOD PRE-
STRESSING OR SHOTCRETE PRACTICES
THE STANDARD SPECIFICATIONS SHALL
BE SUBORDINATED.
THIS DESIGN AND DRAWING ORIGINATED
BY AND THE EXCLUSIVE PROPERTY OF
THE CROM CORPORATION.

BAR IS ONE INCH ON ORIGINAL
DRAWINGS 0 1"

SCALE:

AS NOTED

FILE NO. 9449.2

SHEET 3 OF 19