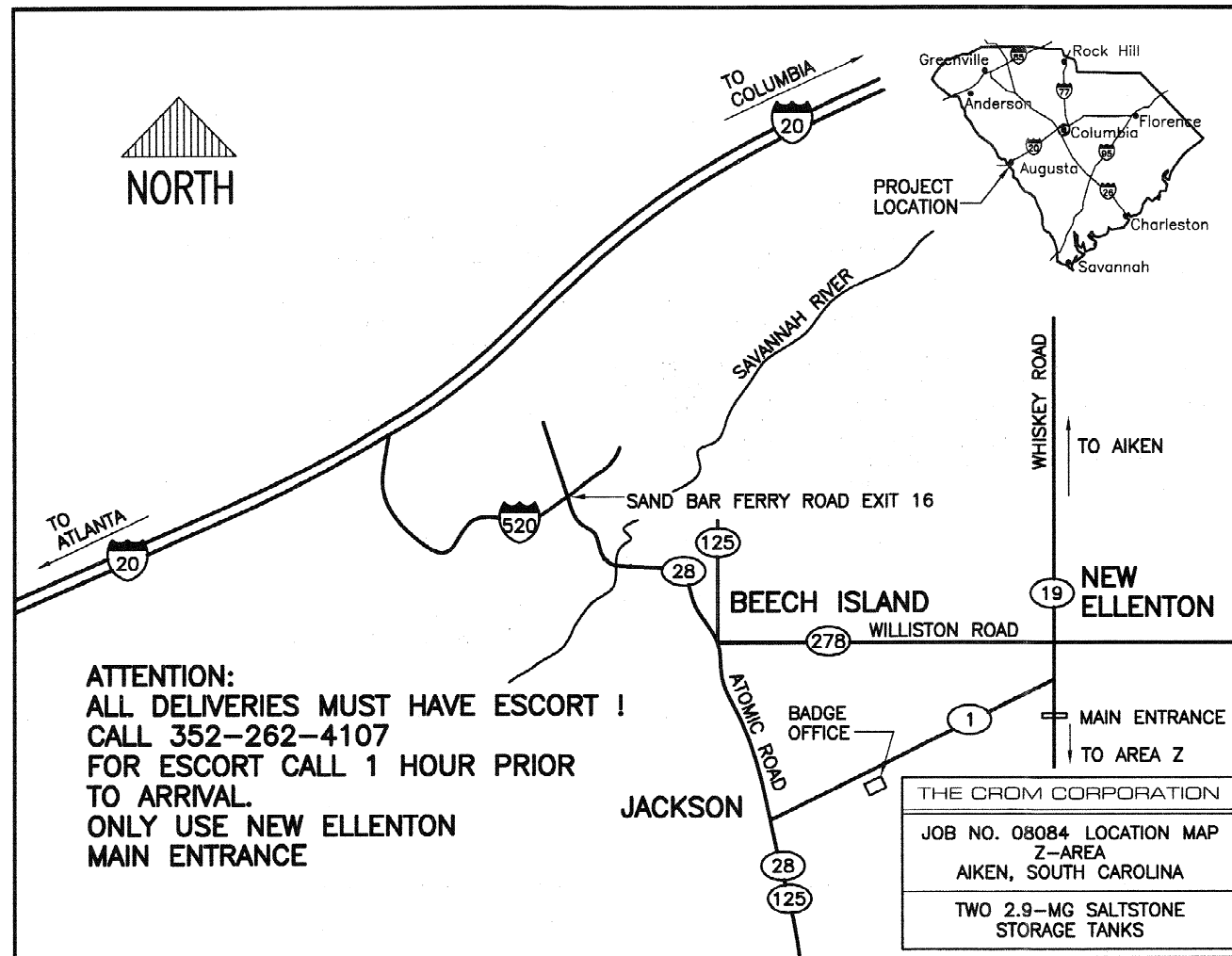


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ATTENTION:
ALL DELIVERIES MUST HAVE ESCORT !
CALL 352-262-4107
FOR ESCORT CALL 1 HOUR PRIOR
TO ARRIVAL.
ONLY USE NEW ELLENTON
MAIN ENTRANCE

THE CROM CORPORATION
JOB NO. 08084 LOCATION MAP
Z-AREA
AIKEN, SOUTH CAROLINA
TWO 2.9-MG SALTSTONE
STORAGE TANKS

Savannah River Site	
Supplier Document Status	
1.	<input checked="" type="checkbox"/> Work may proceed.
2.	<input type="checkbox"/> Submit Final Document work may proceed.
3.	<input type="checkbox"/> Revise and Resubmit. Work may proceed subject to Resolution of Comments.
4.	<input type="checkbox"/> Revise and Resubmit. Work may not proceed.
5.	<input type="checkbox"/> Permission to proceed is not required.

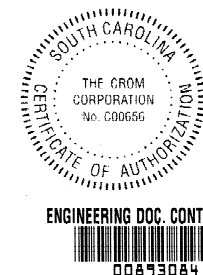
Per. 01345
w/08084-004-FA-DM
Document Category: 1.0 Date: 6/11/09
Reviewer: [Signature]

2.9-MG SALTSTONE STORAGE TANKS 2A & 2B

PROJECT: AREA Z SALTSTONE STORAGE TANKS
AIKEN, SOUTH CAROLINA

OWNER: DEPARTMENT OF ENERGY
SAVANNAH RIVER SITE
AIKEN, SOUTH CAROLINA

CONSULTING ENGINEER: BECHTEL SAVANNAH RIVER, INC.
AIKEN, SOUTH CAROLINA

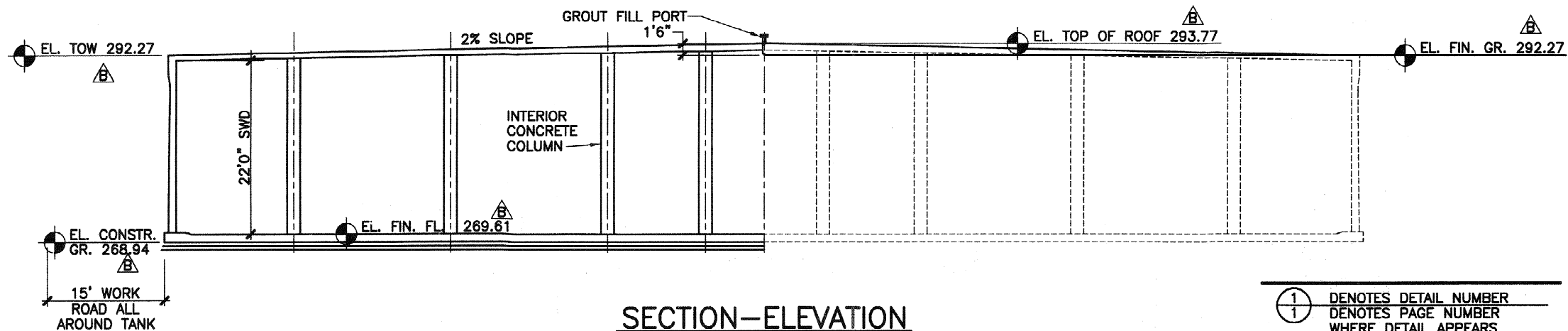


REV	COMMENTS	DATE
A	REVISED SHEETS 2-6 & 8-15	12/17/08
A	REVISED SHEETS 2, 6, 8, 9, 11 & 15	1/15/09
B	REVISED SHEETS 2, 6, 7, 8, 10 & 14	4/3/09
C	REVISED SHEET 8	PENDING
C	REVISED SHEETS 7, 12 & 14	5/5/09

Revisions are designated by a letter following the FILE NUMBER.
UPPER CASE letters indicate APPROVED distribution.

DATE: 11/18/08	FILE NUMBER: 08084SD	SHEET: 1 OF 15
DRAWN: MAL	REV C	
CHECKED: DAB/MLM		
APPROVED: LOB		
DESIGNED: KCH		





SECTION-ELEVATION

NOTES

- ① DENOTES DETAIL NUMBER
① DENOTES PAGE NUMBER
WHERE DETAIL APPEARS
- △ DENOTES SECTION LETTER
① DENOTES PAGE NUMBER
WHERE SECTION APPEARS

Materials & Services Furnished by SRS: (REF: C-SPP-Z-0006 R1 SECTION 13210 PARA 2.2 B1~B5)

1. Concrete: Type V Cement
 - A. 5000 psi pump mix with 3/4" aggregate for upper mud mat floor, roof, columns, precast wall panels and floor wall joint curb.
2. Material Testing:
 - A. Concrete:
 1. Slump: ASTM C 143/C 143M
 2. Air Content: C 231
 3. Density and Yield: ASTM C 138/C 138M
 4. Compression Tests: ASTM C 39/C 38M

A set of test cylinders consists of ten (10) cylinders. For pours less than 100 cubic yards test the first truck and the last truck.

△ For pours greater than 100 cubic yards test the first truck, last truck and every 100 cubic yards.

Materials & Services Furnished by MDM:

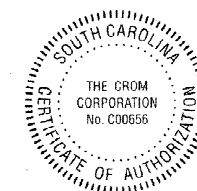
1. Clearing of the site, excavation, fill, and compaction to an elevation 8" below top of floor slab on a 186' diameter circle including two 4" thick concrete mud mats under the tank and a temporary 3"-thick stone, 15'-wide, work road all around the tank over plywood.
2. Dewatering of the 186' diameter work area if required.
3. Furnish adequate working and open storage space for construction equipment and materials.
4. Water and electricity for construction.
5. Interior coating.
6. Drain water collection system. (REF: C-CH-Z-00014) △
7. Final backfill and landscaping.
8. Concrete: Type II Cement
 - A. 2000 psi pump mix with 3/4" aggregate
9. Material Testing:
 - A. Concrete
 1. Slump: ASTM C 143/C 143M
 2. Air Content: C 231
 3. Density and Yield: ASTM C 138/C 138M
 4. Compression Tests: ASTM C 39/C 38M
 - △ i. A set of concrete cylinders consists of three cylinders for normal conditions or four cylinders for cold concreting conditions taken from the first delivery truck and from one set from each 100 cubic yards of the concrete placed thereafter.
 - ii. Maintain the cylinders on-site for twenty-four (24) hours and then transport to the laboratory for curing in accordance with ASTM C 31/ C 31M.
 - iii. One additional test cylinder shall be taken during cold weather concreting, cured on the job site under the same conditions as the concrete it represents and tested at 28 days.

- △ iv. Test concrete compressive strength in accordance with ASTM C 39/C 39M.
 - a. Test one (1) cylinder from each set at seven (7) days.
 - b. Test one (1) cylinder from each set at twenty-eight (28) days.
 - c. Hold remaining cylinder/s in reserve and test only at the direction of BSRI STR.
10. Interior visual liquid level indicator using epoxy coating
11. Exterior Roof Coating (REF: C-SPP-Z-0006 R1 SECTION 13210 PARA 3.3K) △

Materials & Services Furnished by CROM:

- A. Design Criteria:
 1. Geotechnical:
 - i. Uplift: Tank is not designed to resist loads due to hydrostatic uplift.
 - ii. Allowable Bearing Capacity: 3500 psf
 2. Wind load:
 - i. Basic Wind Speed: 150 MPH
 - ii. Importance factor: 1.15
 - iii. Exposure Category: C
 3. Seismic load:
 - i. Spectral response Accelerations:
 - a. Ss: .600
 - b. S1: .200
 - ii. Occupancy Category: III
 - iii. Importance Factor: 1.5
 - iv. Site Classification: D
 4. Live Loads:
 - i. Dome Live Load: 30 psf
 5. Saltstone drain water load: △
 - i. Wall: 82 lbs/ft³
- B. Shotcrete Mixes:
 1. Shotcrete Mixes: Use Type II Cement
 - (a) 1st coat on steel shell & prestress wire: 1:3 mix
 - (b) All other shotcrete: 1:4 mix
 - (c) Strength: fg = 4000 psi, fgi = 2000 psi
 - △ (d) Shotcrete material testing. Take 5 cylinders, shoot one panel and shoot five baskets every day that shotcrete is placed.
- C. Curing: (7 days minimum)
 1. Continuously water cure floor and wall during tank construction.
 2. Water cure roof 7 days.
- D. Reinforcing Steel:
 1. ASTM A615 grade 60, lap splices 48 bar diameters
- E. Prestressing Wire: Meets ASTM A821 05 Type B
 1. Diameter: 0.162 in (8 gauge)
 2. Area: 0.0206 sq-in.
 3. Ultimate Strength: 231,000 psi
 4. Initial Stress: 145,600 psi
 5. Working Stress: 115,000 psi
- F. Steel Shell Diaphragm: Meets ASTM A1008-05b, 26 gauge

- G. Accessories (each tank except as noted): (Shop prime all exposed steel)
 1. Floor embedments:
 - (a) Thermowell floor embed plate (4 req.)
 - △ 2. Wall embedments:
 - (a) Wall Mounting Plates per Detail 3 of DWG C-CH-Z-00014
 3. Roof embedments (see LEGEND sheet 4 and 5):
 - (a) 6" diameter thermowell roof penetrations (4 req.)
 - (b) Thermowell junction box embed plate (4 req.)
 - (c) 36" diameter camera port (3 req.)
 - (d) Camera junction box embed plate (3 req.)
 - (e) 3" diameter grout fill port
 - (f) Grout fill support embed plates (8 req.)
 - (g) Conduit support embed plates (38 req. for tank 2A, 36 req. for tank 2B))
 - (h) 12" diameter ventilation port (3 req.)
 - (i) 8" diameter sample port
 - (j) 3" diameter inspection port (58 req.)
 - (k) 3" diameter drain vent (2 req.)
 - (l) Temporary roof access opening
 - (m) 26" ID 36" OD embedment for 24" PVC downcomer
 - H. Material Testing:
 1. Shotcrete:
 - (a) Compression Tests: ASTM C 39/C 39M, C 109/C 109M
Four cylinders (or cores) per set (for each set, test one at 7 days, two at 28 days, and hold one)
 - i. 2 sets for outside core wall
 - ii. 2 sets for cover coat
 - I. Tolerances:
 - Columns:
 - Plumb: ± 1 inch
 - Location: ± 1 inch
 - Thickness: + 1/2 inch
 - Wall:
 - Diameter: + 1.5 inches
 - Thickness: + 1/2 inch
 - Roof:
 - Thickness: + 1/2 inch



TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE

AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.

AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08

DRAWN: MAL

CHECKED: DAB/MLM

APPROVED: LOB

DESIGNED: KCH

REV.	DESCRIPTION	DATE CHK. BY
△	REVISED NOTES.	12/16/08
△	REVISED NOTES.	1/15/09
△	REVISED TANK ELEVATIONS. REVISED NOTES.	3/27/09

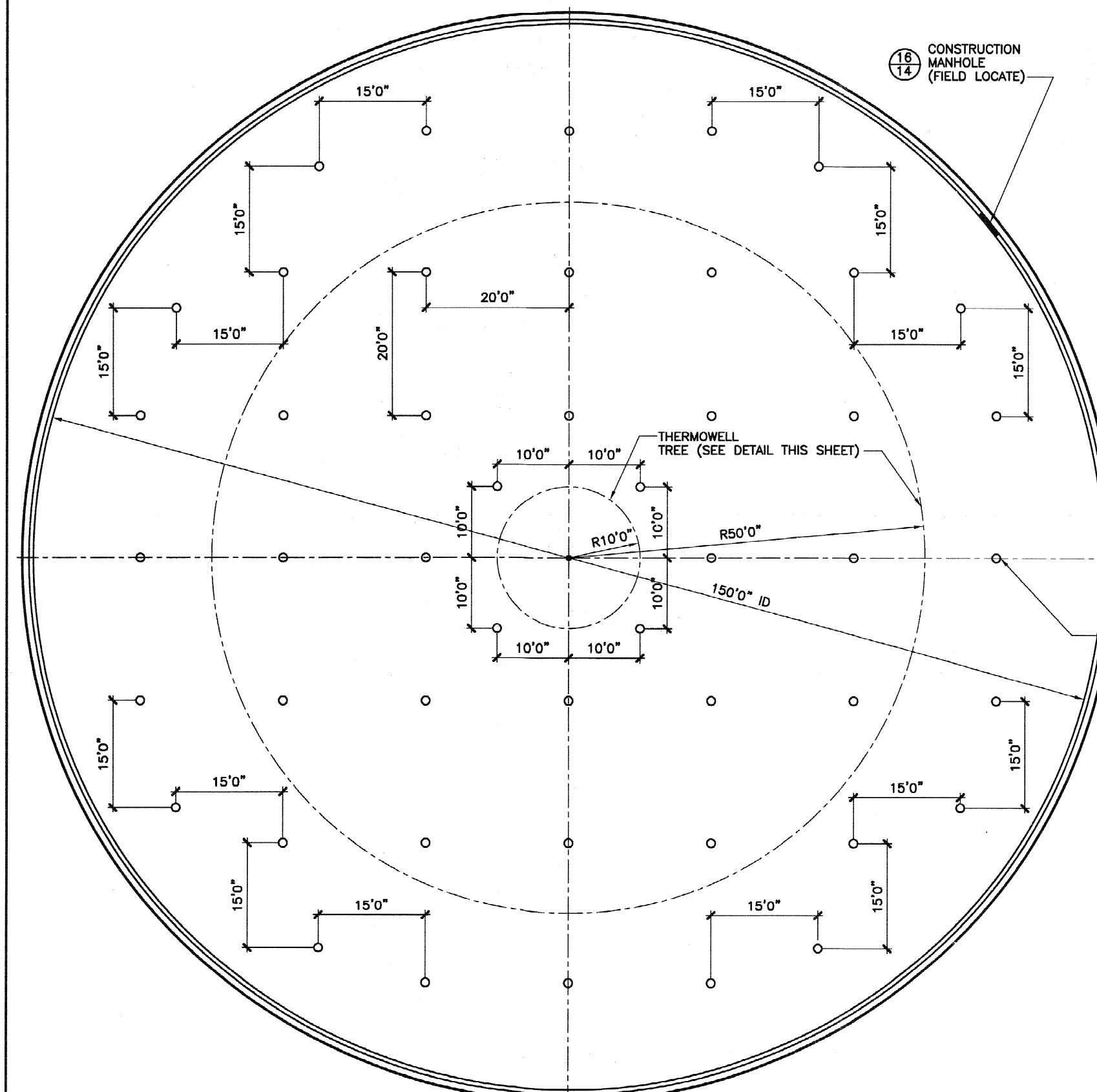
WHERE STANDARD SPECIFICATIONS ARE IN CONFLICT WITH CROM CORPORATION SPECIFICATIONS OR WITH GOOD PRE-STRESSING OR SHOTCRETE PRACTICES THE STANDARD SPECIFICATIONS SHALL BE SUBORDINATED. THIS DESIGN AND DRAWING ORIGINATED BY AND THE EXCLUSIVE PROPERTY OF THE CROM CORPORATION.

BAR IS ONE INCH ON ORIGINAL DRAWINGS 0 = 1"

SCALE: 2' 0" 5' 10"
3/32" = 1' 0"

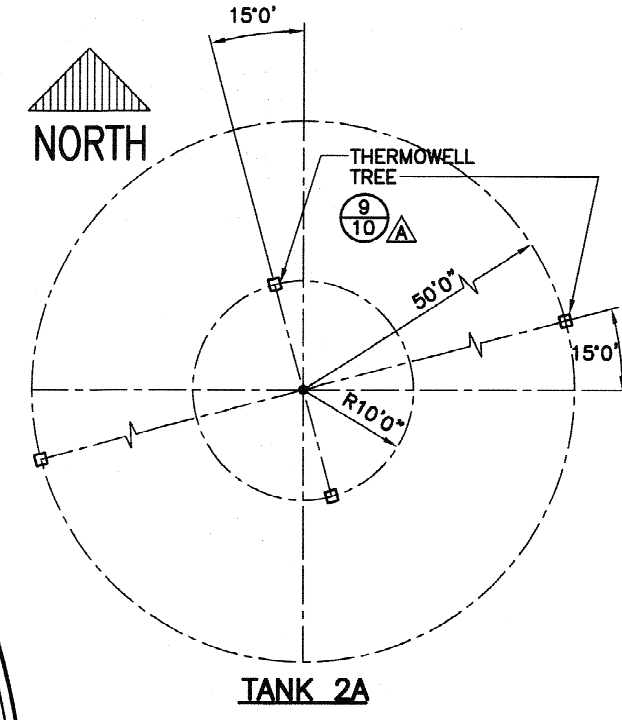
FILE NO.
08084SD

SHEET **2** OF **15**

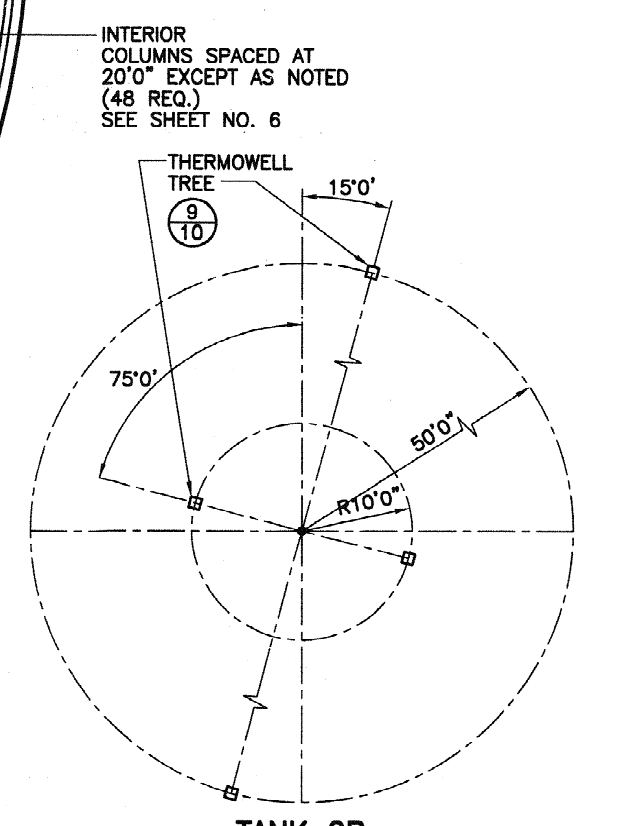


TANK FLOOR PLAN

NOTE: FIELD VERIFY ALL ACCESSORY LOCATIONS WITH ENGINEER PRIOR TO PLACEMENT.



TANK 2A



TANK 2B

INTERIOR COLUMNS SPACED AT 20'0" EXCEPT AS NOTED (48 REQ.) SEE SHEET NO. 6



TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08

DRAWN: MAL

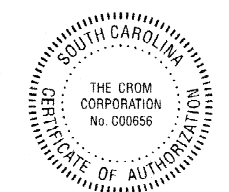
CHECKED: DAB/MLM

APPROVED: LOB

DESIGNED: KAH

REV.	DESCRIPTION	DATE CK. BY

▲ CORRECT DETAIL REFERENCE BUBBLE.
12/17/08



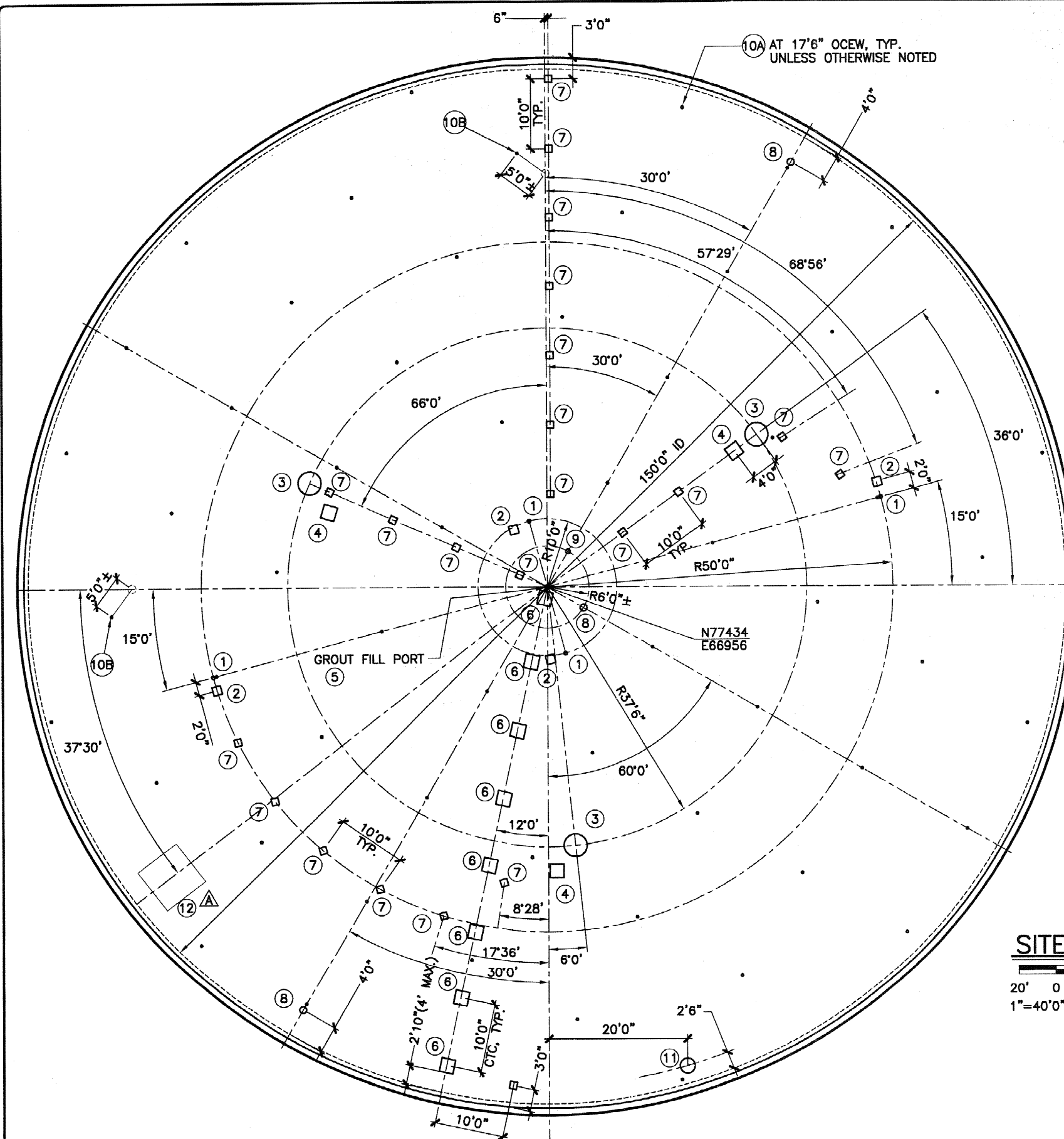
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BAR IS ONE INCH ON ORIGINAL DRAWINGS 0 1"

SCALE:
2' 0" 5' 10"
3/32" = 1' 0"

FILE NO. 08084SD
REV A

SHEET 3 OF 15



LEGEND

- ① THERMOWELL TREE LOCATION: $\frac{9}{10}$
- ② TW JUNCTION BOX EMBED PLATE: $\frac{11}{12}$
- ③ CAMERA PORT: $\frac{10}{11}$ $\frac{8}{10}$
- ④ CAMERA JUNCTION BOX EMBED: $\frac{11}{12}$
- ⑤ GROUT FILL PORT: $\frac{5}{9}$
- ⑥ GROUT FILL LINE SUPPORT: $\frac{11}{12}$ **NORTH**
- ⑦ CONDUIT SUPPORT EMBEDS: $\frac{11}{12}$
- ⑧ VENTILATION PORT: $\frac{7}{10}$
- ⑨ SAMPLE PORT: $\frac{4}{9}$
- ⑩A INSPECTION PORT: $\frac{6}{9}$
- ⑩B DRAIN VENT $\frac{6}{9}$
- ⑪ 24" PVC DOWNCOMER: $\frac{17}{15}$
- ⑫ 6' x 6' ACCESS HATCH $\frac{12}{12}$ \triangle



TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE

AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.

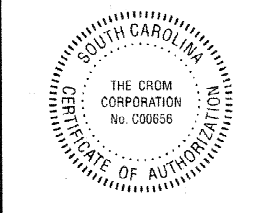
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08
DRAWN: MAL
CHECKED: DAB/MLM
APPROVED: LOB
DESIGNED: KRB

REV.	DESCRIPTION	DATE	CHK. BY
	\triangle ADD HATCH DETAIL TO LEGEND.		



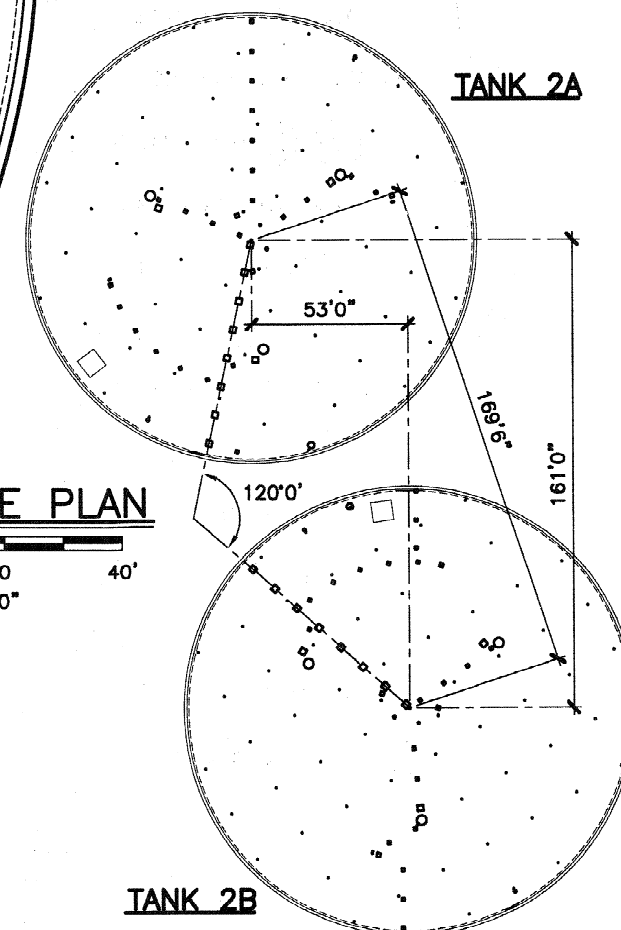
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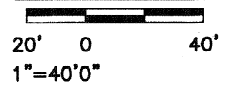
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FILE NO. **08084SD**
REV A

SHEET **4** OF **15**



SITE PLAN

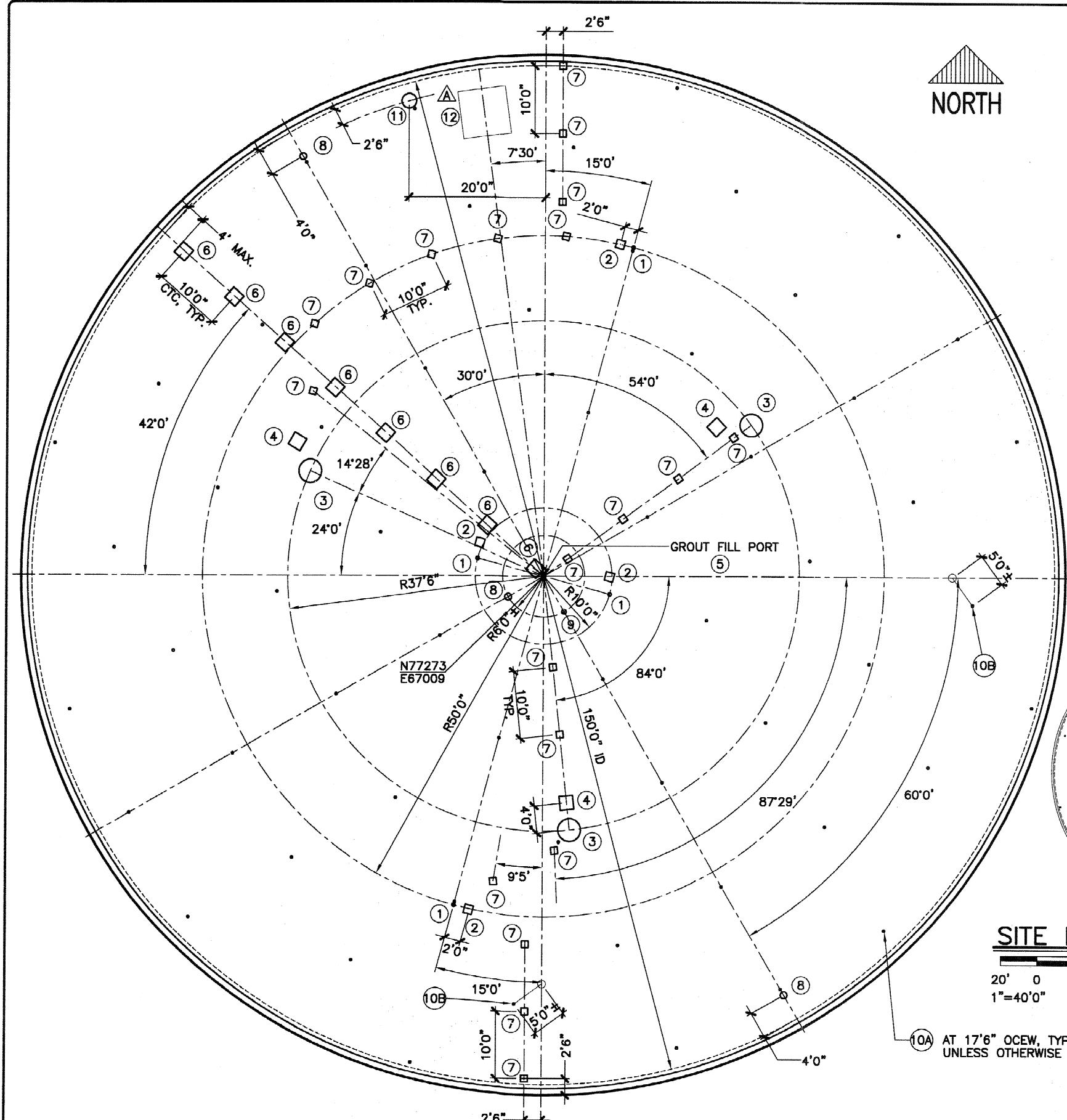


NOTE: FIELD VERIFY ALL ACCESSORY LOCATIONS WITH ENGINEER PRIOR TO PLACEMENT.

TANK 2A ROOF PLAN



TANK 2B



LEGEND

- ① THERMOWELL TREE LOCATION: $\frac{9}{10}$
- ② TW JUNCTION BOX EMBED PLATE: $\frac{11}{12}$
- ③ CAMERA PORT: $\frac{10}{11}$ $\frac{8}{10}$
- ④ CAMERA JUNCTION BOX EMBED: $\frac{11}{12}$
- ⑤ GROUT FILL PORT: $\frac{5}{9}$
- ⑥ GROUT FILL LINE SUPPORT: $\frac{11}{12}$
- ⑦ CONDUIT SUPPORT EMBEDS: $\frac{11}{12}$
- ⑧ VENTILATION PORT: $\frac{7}{10}$
- ⑨ SAMPLE PORT: $\frac{4}{9}$
- ⑩A INSPECTION PORT: $\frac{6}{9}$
- ⑩B DRAIN PORT $\frac{6}{9}$
- ⑪ 24" PVC DOWNCOMER: $\frac{17}{15}$
- ⑫ 6' x 6' ACCESS HATCH $\frac{12}{12}$ \triangle



TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

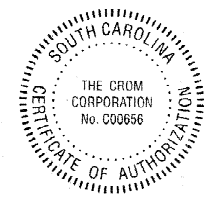
CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08
DRAWN: MAL
CHECKED: DAB/MLM
APPROVED: LOB
DESIGNED: KRH

REV.	DESCRIPTION	DATE CK. BY
	\triangle ADDED ACCESS HATCH TO LEGEND.	12/17/08



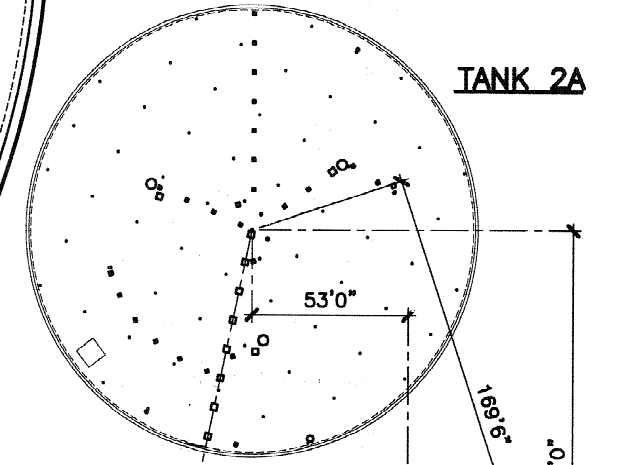
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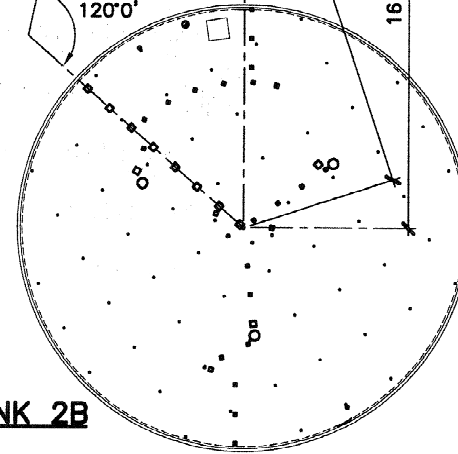
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FILE NO. **08084SD**
REV A

SHEET **5** OF **15**

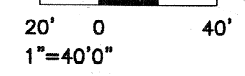


TANK 2A



TANK 2B

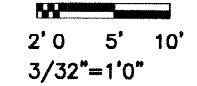
SITE PLAN

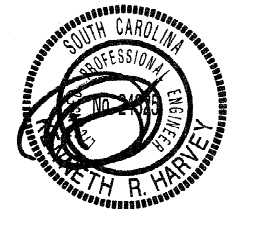
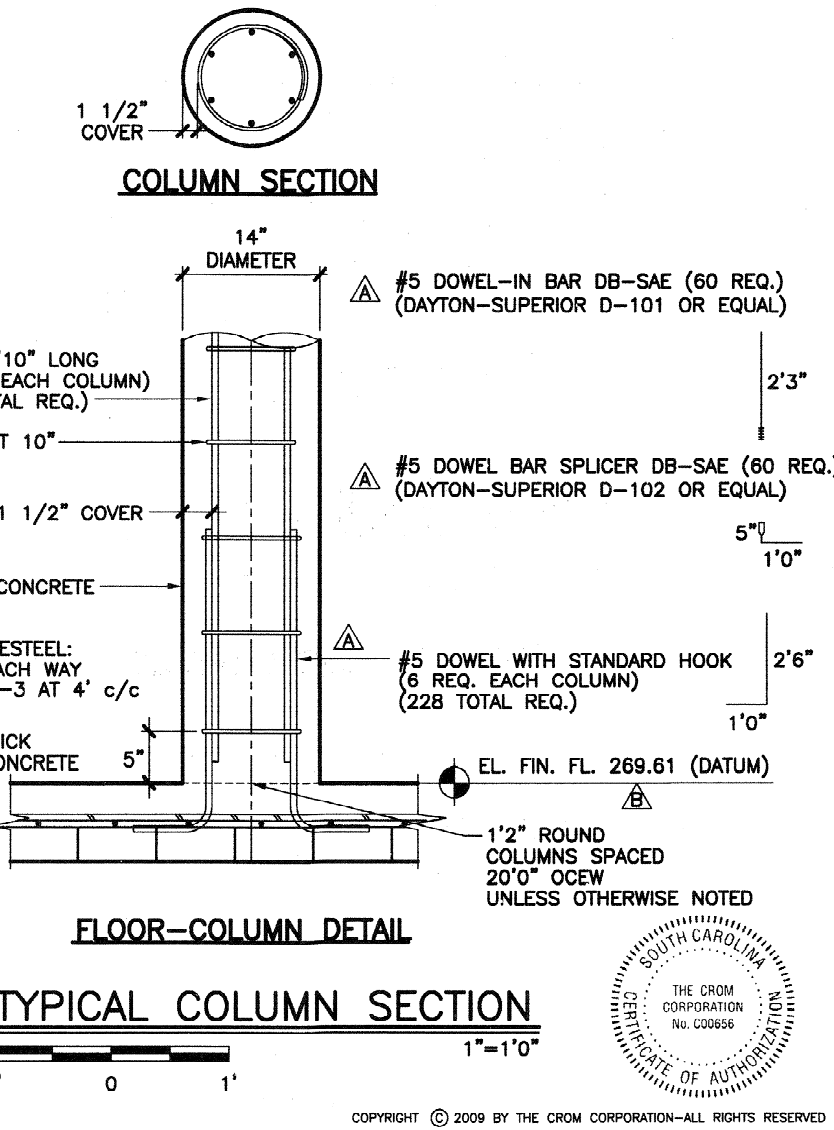
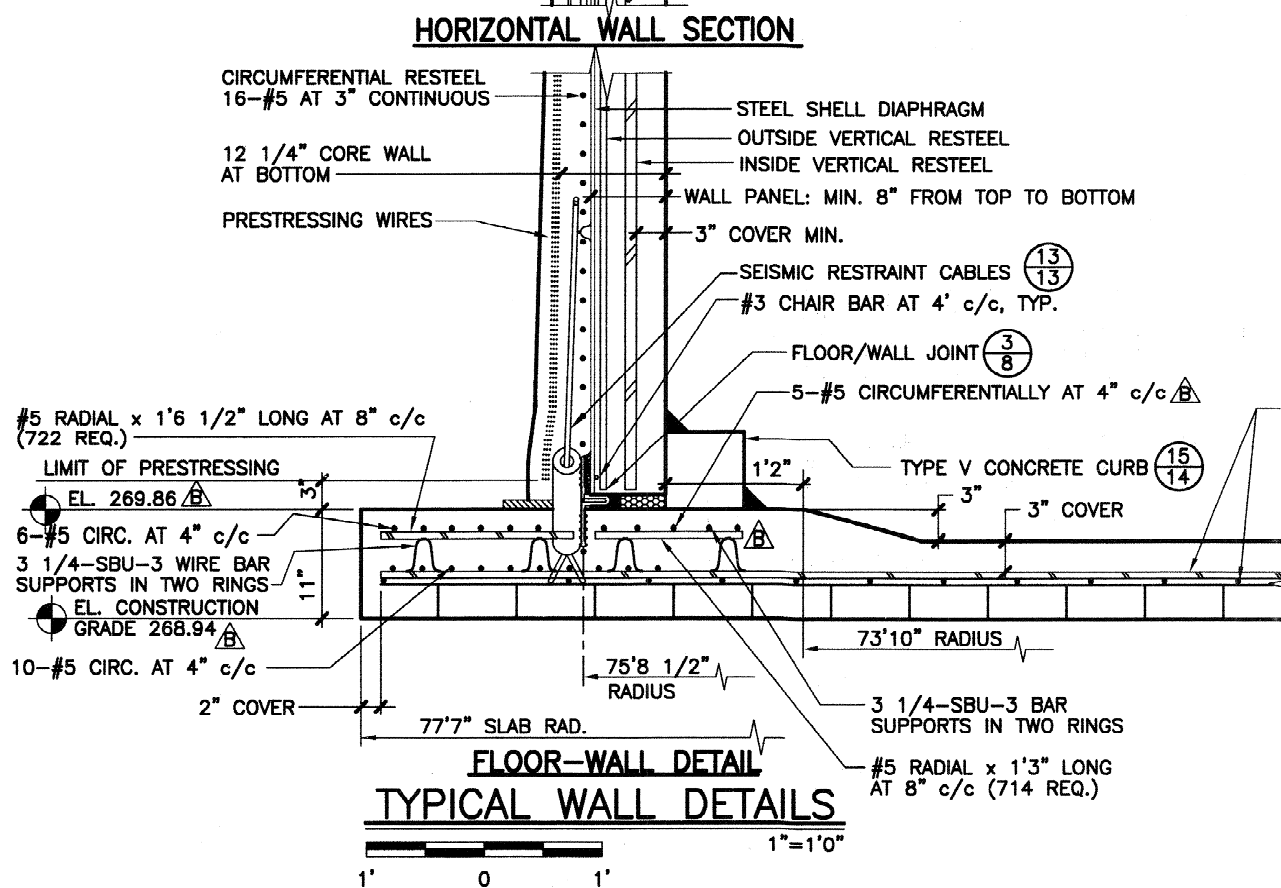
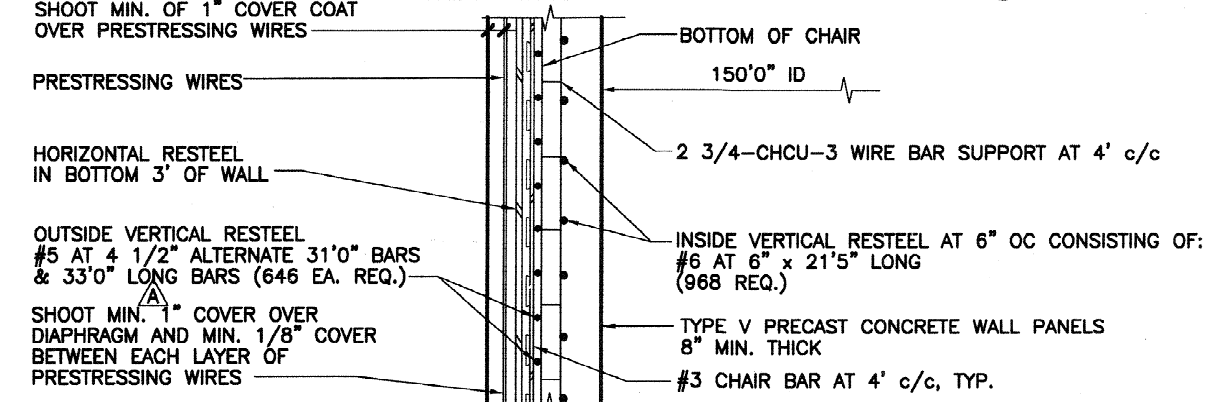
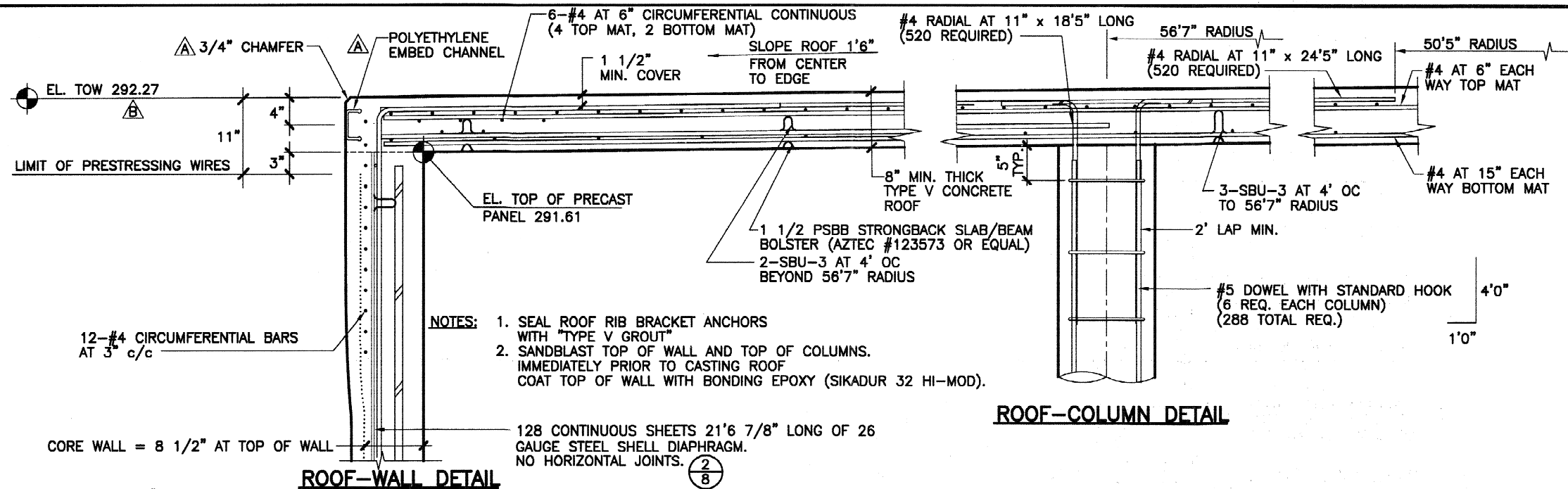


⑩A AT 17'6" OCEW, TYP. UNLESS OTHERWISE NOTED:

NOTE: FIELD VERIFY ALL ACCESSORY LOCATIONS WITH ENGINEER PRIOR TO PLACEMENT.

TANK 2B ROOF PLAN





TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08
DRAWN: MAL
CHECKED: DAB/MLM
APPROVED: LOB
DESIGNED: KKH

REV.	DESCRIPTION	DATE CK. BY
A	ADDED EMBED PLATE. CORRECTED ARROW. CHANGED COVER TO 1".	12/17/08
B	CHAMFERED EDGE AT TOW.	12/19/08
C	ADD DOWEL-IN RECIEVER BARS TO ALLOW ACCESS TO FLOOR DURING PANEL CASTING.	1/15/09
D	REVISED TANK ELEVATIONS. ADDED FLOOR RESTEEL.	3/27/09

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

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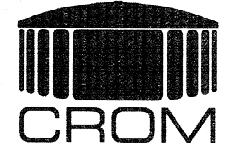
SCALE:
AS NOTED

FILE NO. 08084SD
REV B

SHEET 6 OF 15

NOTES:

- SHOTCRETE SHALL BE APPLIED BY OR UNDER DIRECT SUPERVISION OF NOZZLEMEN CERTIFIED BY THE AMERICAN CONCRETE INSTITUTE AS OUTLINED IN ACI CERTIFICATION PUBLICATION CP-60.
- TENSION IN PRESTRESSING WIRE SHALL BE MEASURED BY AN ELECTRONIC DIRECT-READING STRESSMETER ACCURATE TO WITHIN 2%.



TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08

DRAWN: MAL

CHECKED: DAB/MLM

APPROVED: LOB

DESIGNED: *REH*

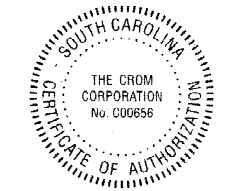
REV.	DESCRIPTION	DATE CK. BY
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REVISIONS:
B REVISED TANK ELEVATIONS.

3/27/09

C DIM. WAS 3'6"

5/5/09



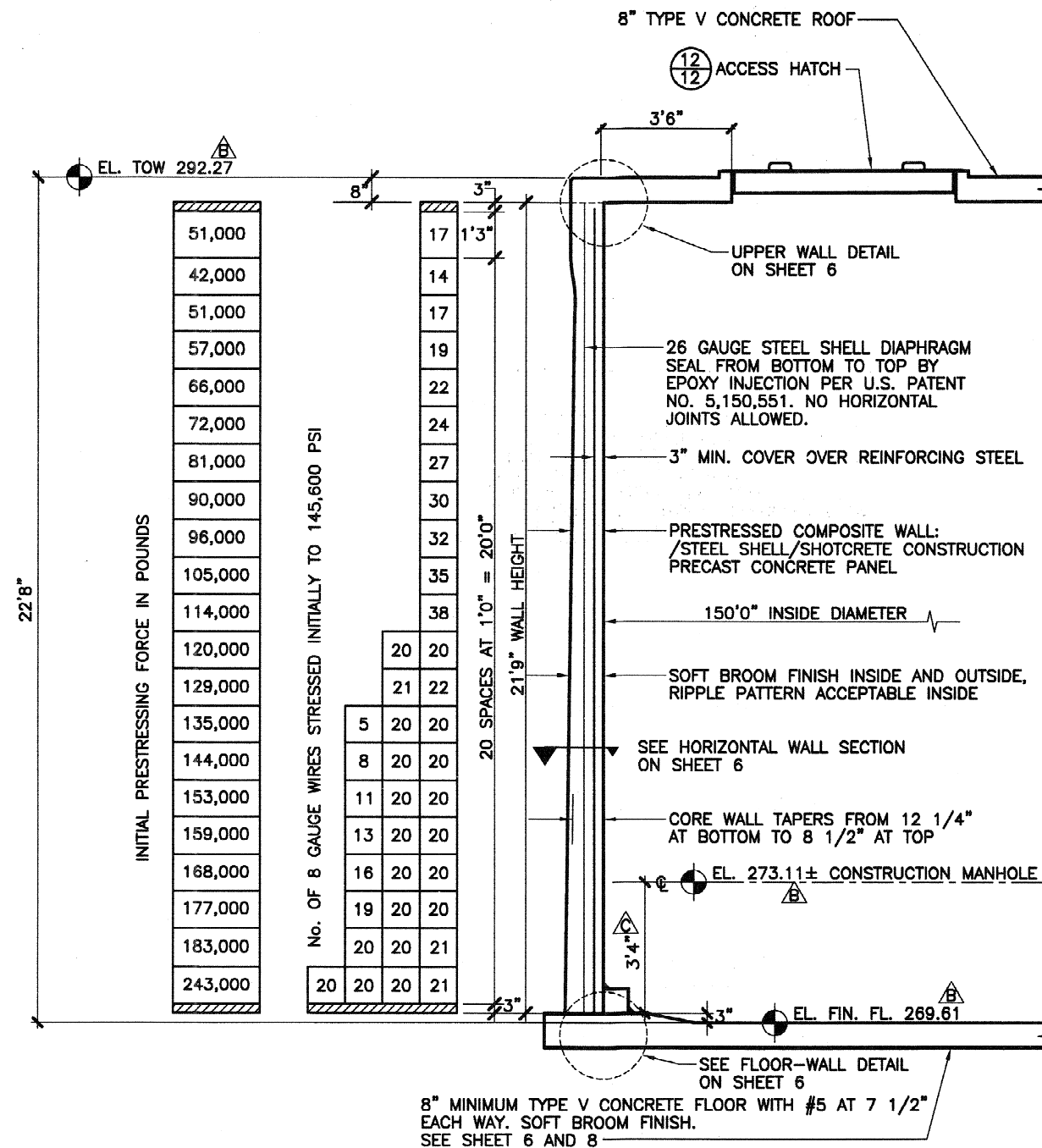
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BAR IS ONE INCH ON ORIGINAL DRAWINGS 0 1"

SCALE:
AS NOTED

FILE NO. 08084SD
REV C

SHEET 7 OF 15



INITIAL PRESTRESSING FORCE IN POUNDS

51,000
42,000
51,000
57,000
66,000
72,000
81,000
90,000
96,000
105,000
114,000
120,000
129,000
135,000
144,000
153,000
159,000
168,000
177,000
183,000
243,000

No. OF 8 GAUGE WIRES STRESSED INITIALLY TO 145,600 PSI

17	17	
14	14	
17	17	
19	19	
22	22	
24	24	
27	27	
30	30	
32	32	
35	35	
38	38	
20	20	20
21	21	22
5	20	20
8	20	20
11	20	20
13	20	20
16	20	20
19	20	20
20	20	21
20	20	21

PRESTRESSING SCHEDULE

3/8"=1'0"

2' 0' 1' 2'



TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08
DRAWN: MAL
CHECKED: DAB/MLM
APPROVED: LOB
DESIGNED: KKH

REV.	DESCRIPTION	DATE CR. BY
△	MODIFIED CLOSURE STRIP.	
	MODIFIED TYLAG.	12/17/08
	REMOVED EXTRANEIOUS DIMENSION.	12/19/08
	MODIFIED TYLAG LENGTH. ADDED EPOXY TUBE HOLES. SCALE CORRECTED. ADDED TAPED EPOXY INJECT SPRINGS.	1/15/08
△	ADDED #3 BARS TO CLOSURE STRIP (NTS).	3/30/08
△	TYLOOPS REQUIRED.	4/15/08

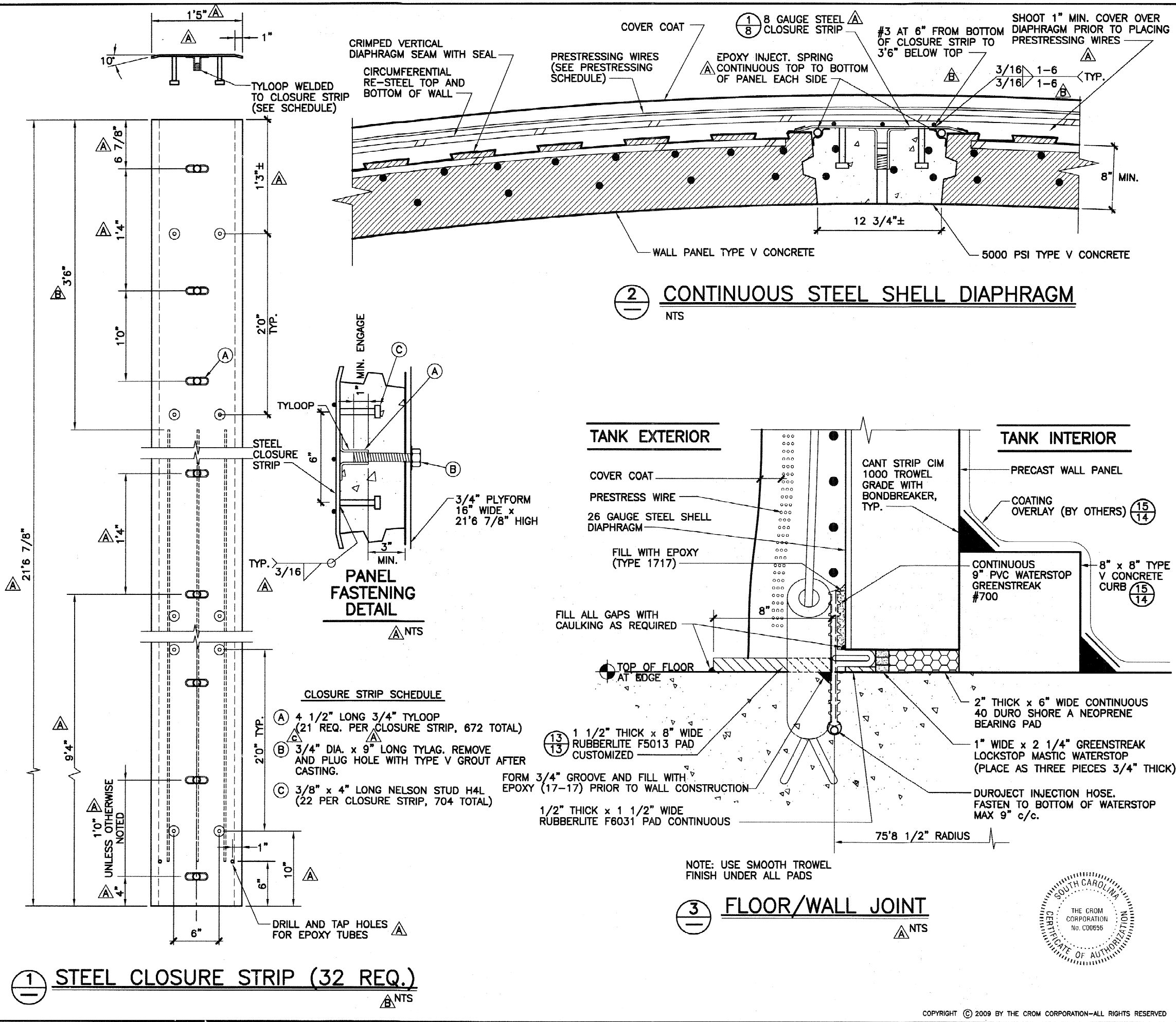
WHERE STANDARD SPECIFICATIONS ARE IN CONFLICT WITH CROM CORPORATION SPECIFICATIONS OR WITH GOOD PRESTRESSING OR SHOTCRETE PRACTICES THE STANDARD SPECIFICATIONS SHALL BE SUBORDINATED.
THIS DESIGN AND DRAWING ORIGINATED BY AND THE EXCLUSIVE PROPERTY OF THE CROM CORPORATION.

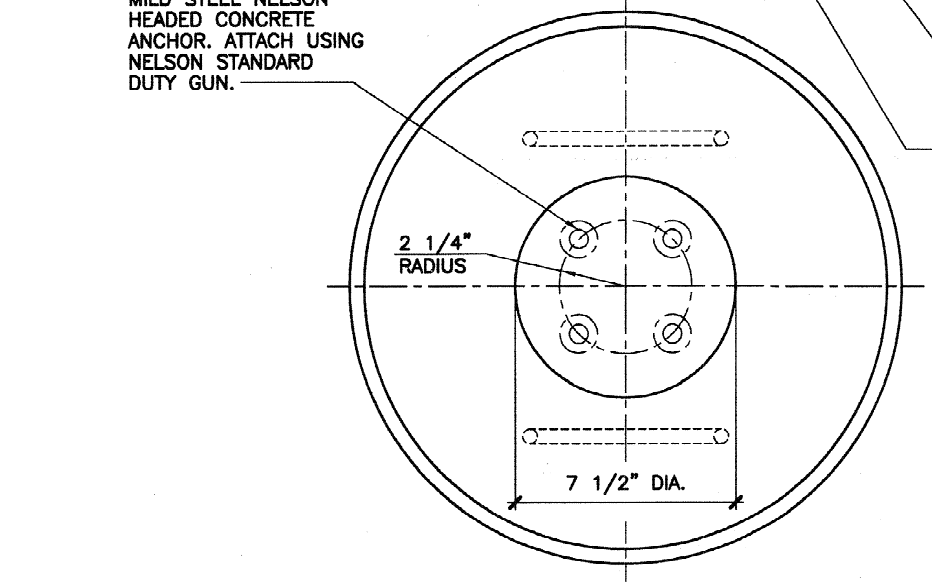
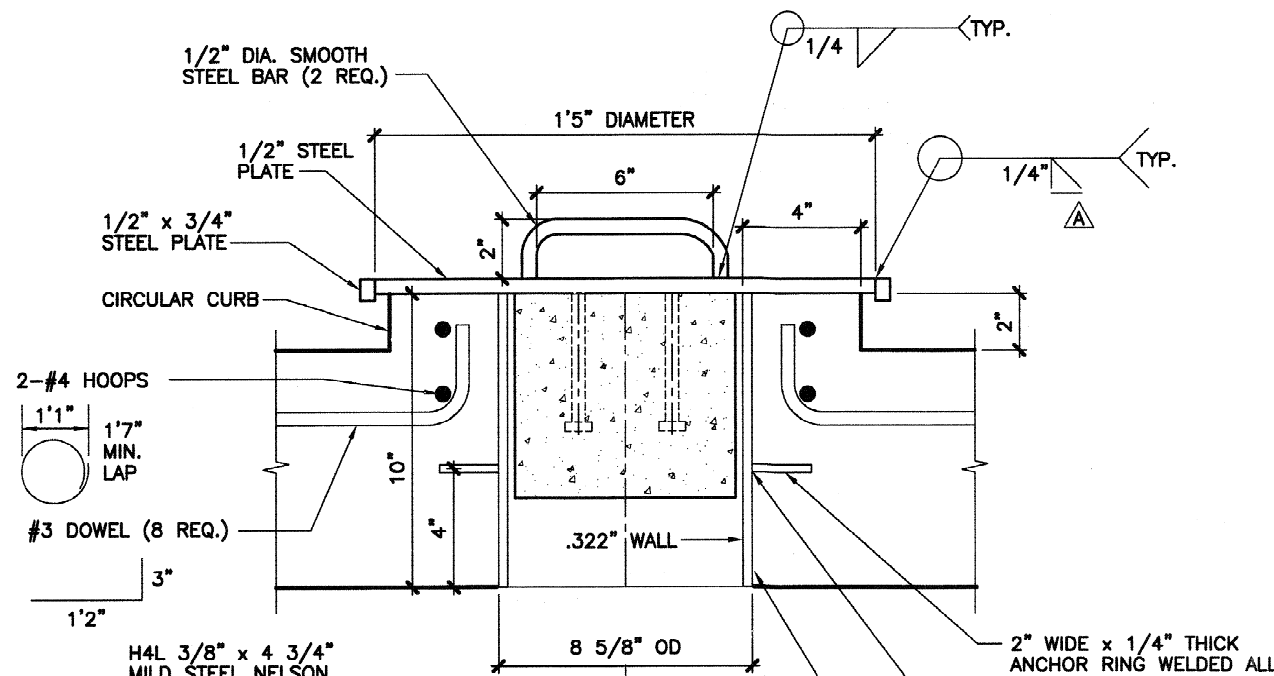
BAR IS ONE INCH ON ORIGINAL DRAWINGS 0 1"

SCALE:
AS NOTED

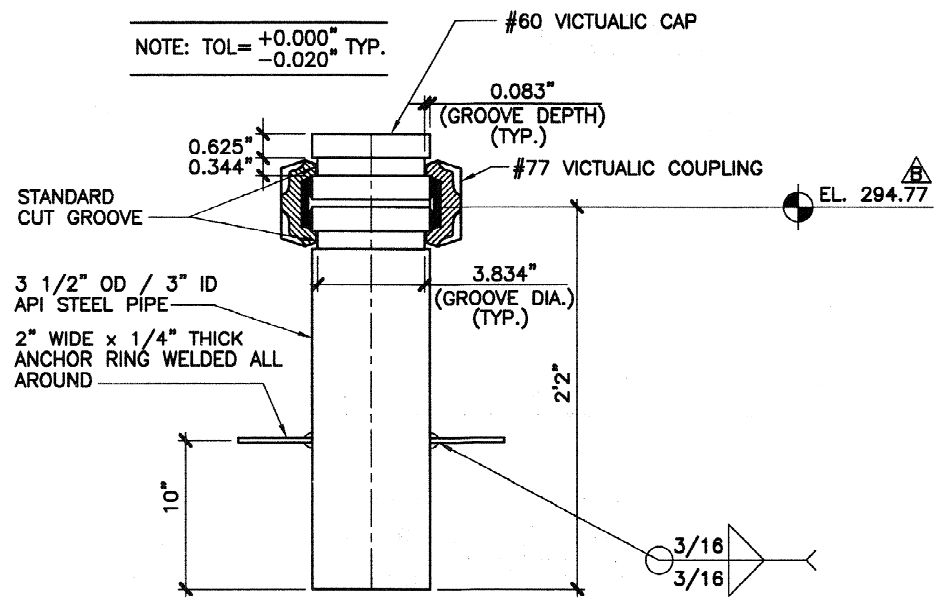
FILE NO. 08084SD
REV C

SHEET 8 OF 15

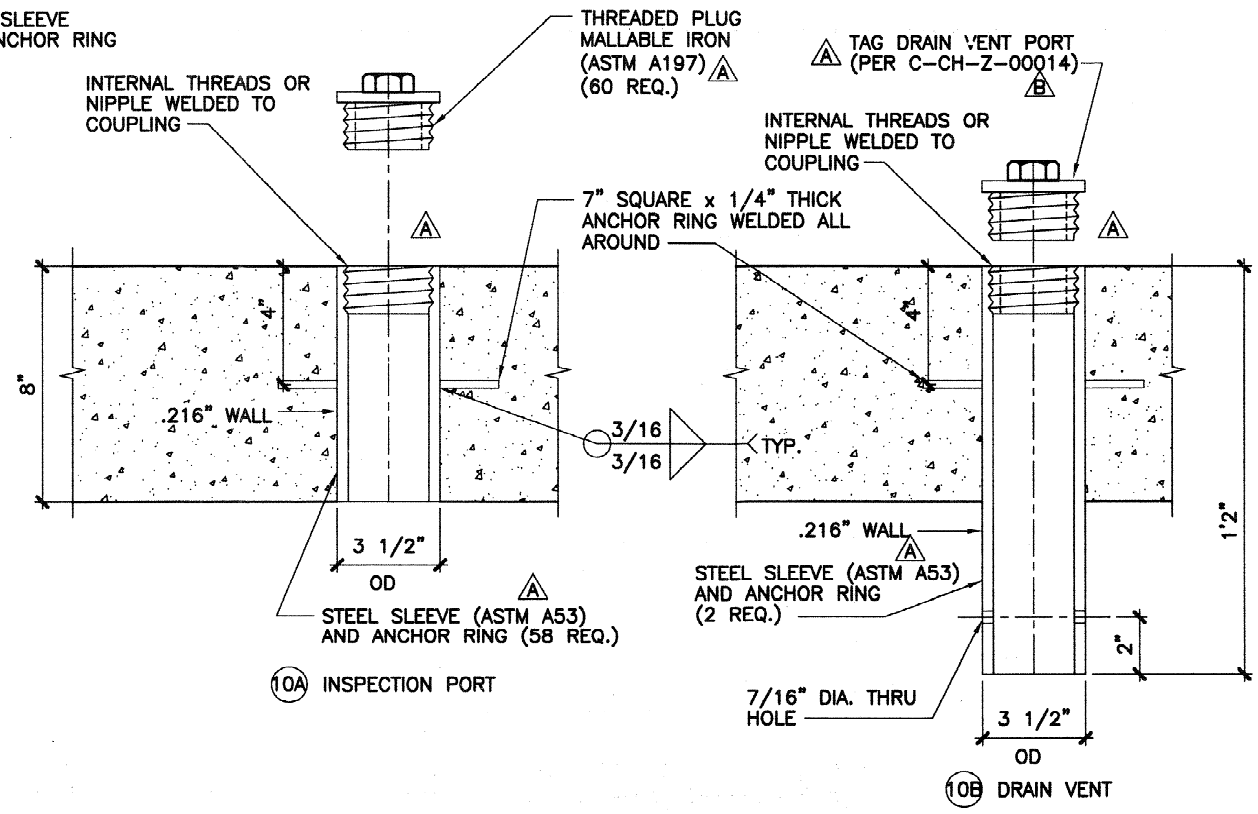




4 SAMPLE PORT PENETRATION PLUG
 3"=1'0"
 0 1'



5 GROUT FILL LINE
 NTS



6 PENETRATION PLUGS
 3"=1'0"
 0 1'



TANK BUILDER:
 THE CROM CORPORATION
 GAINESVILLE, FLORIDA

OWNER:
 DEPT OF ENERGY
 SAVANNAH RIVER SITE
 AIKEN
 SOUTH CAROLINA

CONSULTING ENGINEER:
 BECHTEL
 SAVANNAH RIVER, INC.
 AIKEN
 SOUTH CAROLINA

TANK DESCRIPTION:
 2.9-MG SALTSTONE
 STORAGE TANKS

TANK DIMENSIONS:
 150'0" ID x 22'0" SWD

DATE: 11/18/08
 DRAWN: MAL
 CHECKED: DAB/MLM
 APPROVED: LOB
 DESIGNED: KKH

REV.	DESCRIPTION	DATE CK. BY
△	MODIFIED PENETRATION SLEEVES. MODIFIED WELD SYMBOL.	12/17/08
△	ADDED PLUG MATERIAL STANDARD. ADDED SLEEVE MATERIAL STANDARD.	1/15/09
△	REVISED VENT PORT ELEVATIONS. REVISED TAG DRAIN VENT PORT.	3/27/09

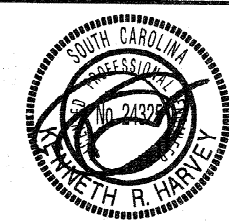
WHERE STANDARD SPECIFICATIONS ARE IN CONFLICT WITH CROM CORPORATION SPECIFICATIONS OR WITH GOOD PRE-STRESSING OR SHOTCRETE PRACTICES THE STANDARD SPECIFICATIONS SHALL BE SUBORDINATED.
 THIS DESIGN AND DRAWING ORIGINATED BY AND THE EXCLUSIVE PROPERTY OF THE CROM CORPORATION.

BAR IS ONE INCH ON ORIGINAL DRAWINGS 0 1"

SCALE: AS NOTED

FILE NO. 08084SD
 REV B

SHEET 9 OF 15



TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08
DRAWN: MAL
CHECKED: DAB/MLM
APPROVED: LOB
DESIGNED: KKH

REV.	DESCRIPTION	DATE CHK. BY
------	-------------	-----------------

△ MODIFIED WELD SYMBOL.
12/17/08

△ MODIFIED FLANGE CALLOUTS
4/9/09

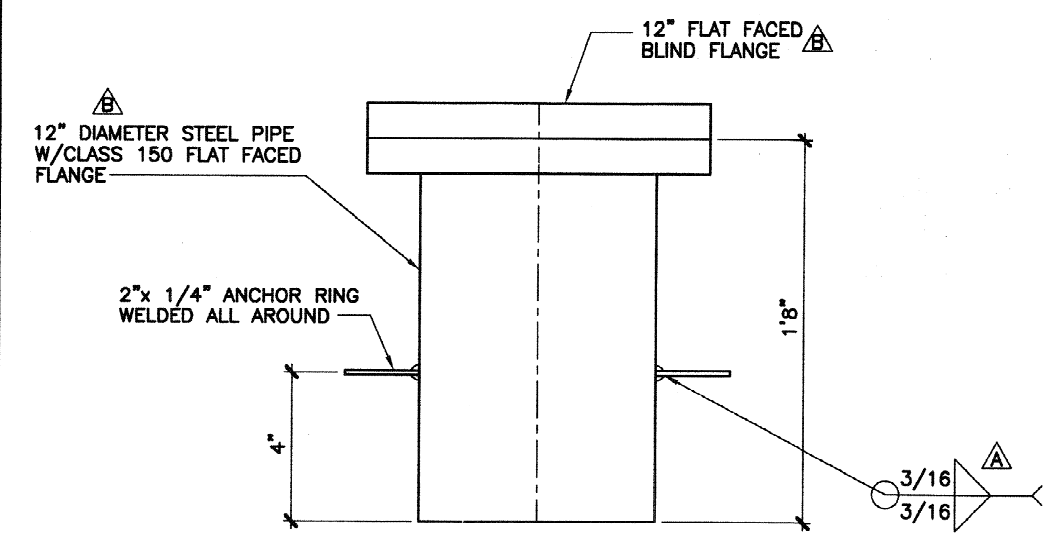
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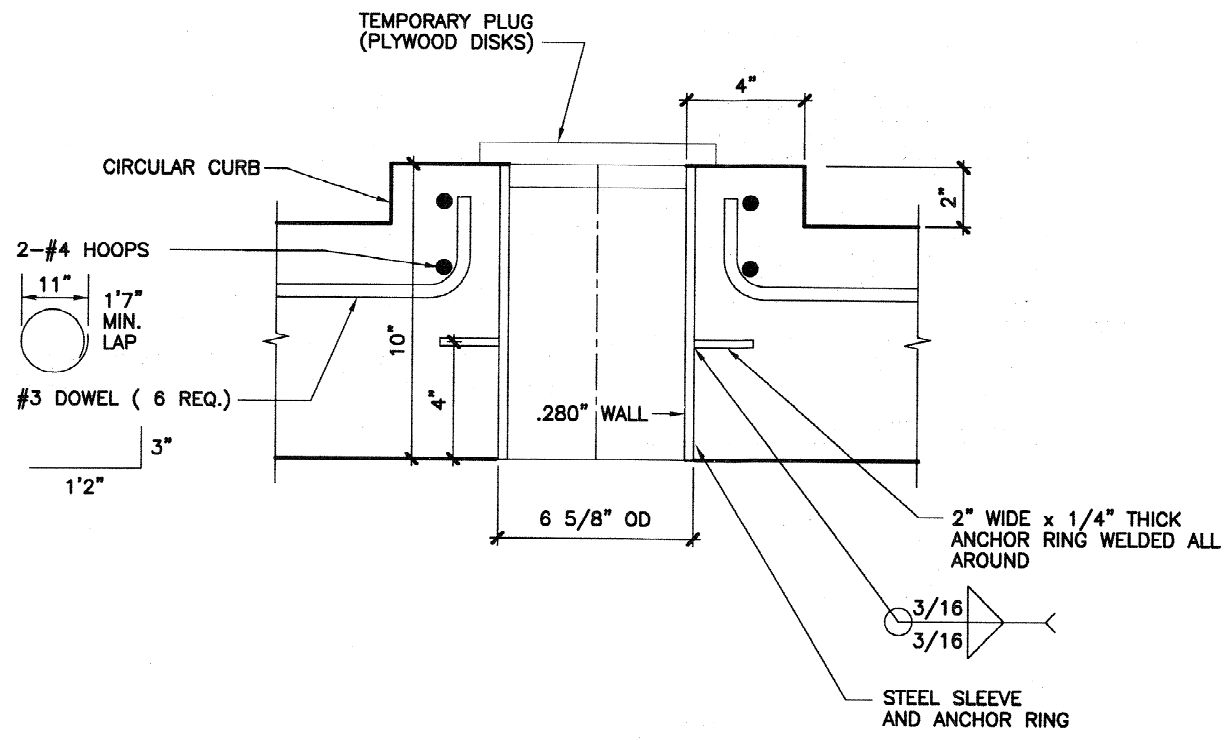
SCALE:
AS NOTED

FILE NO. **08084SD**
REV B

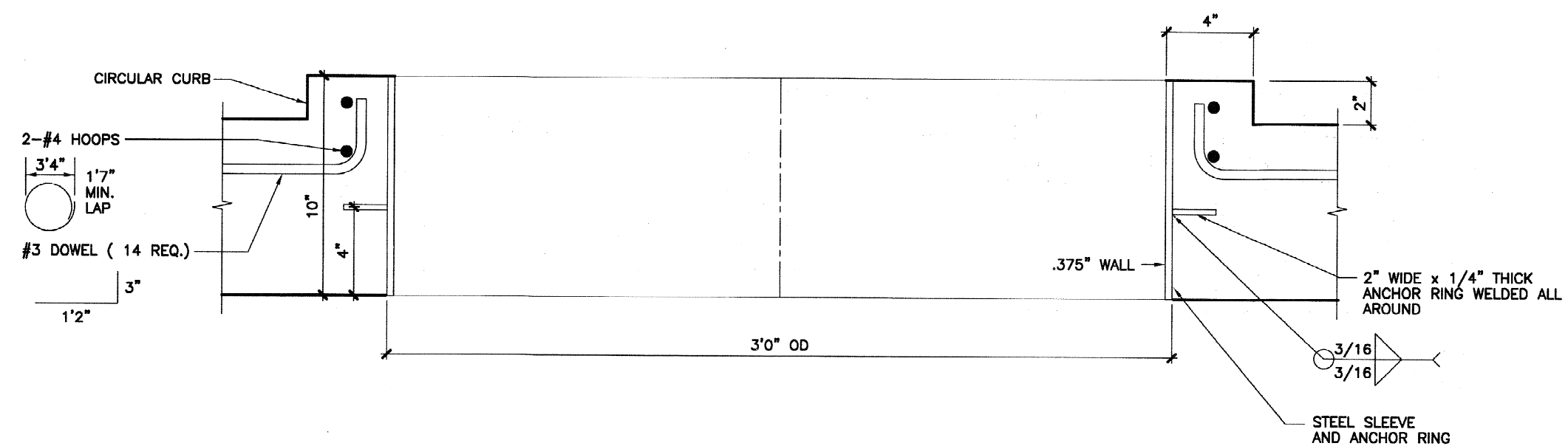
SHEET **10** OF **15**



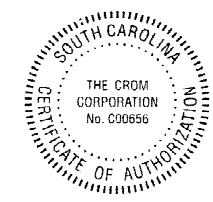
7 VENT PORT (3 REQ.)
NTS



9 THERMOWELL PORT PENETRATION (4 REQ.)
0 1' 3"=1'0"



8 CAMERA PORT PENETRATION (3 REQ.)
0 1' 3"=1'0"





TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08

DRAWN: MAL

CHECKED: DAB/MLM

APPROVED: LOB

DESIGNED: KKH

REV.	DESCRIPTION	DATE CHK. BY
1	MODIFIED WELD SYMBOL. ROTATED LIFTING EYES 2" AT 2 LOCATIONS.	12/17/08
2	ADDED WELD SYMBOL. ADDED DIMENSION.	1/15/09

12/17/08

1/15/09

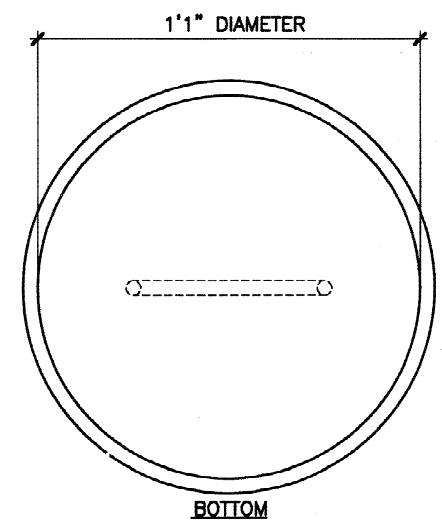
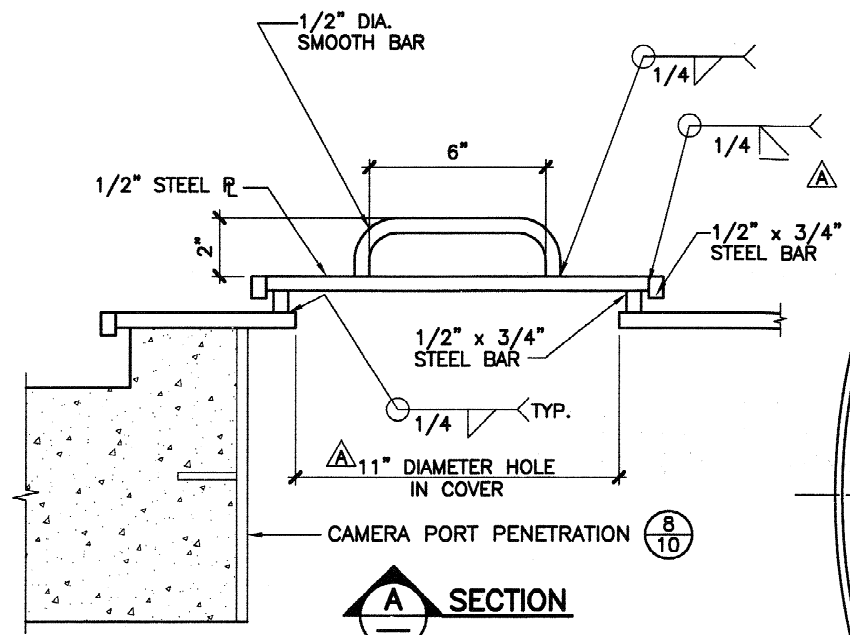
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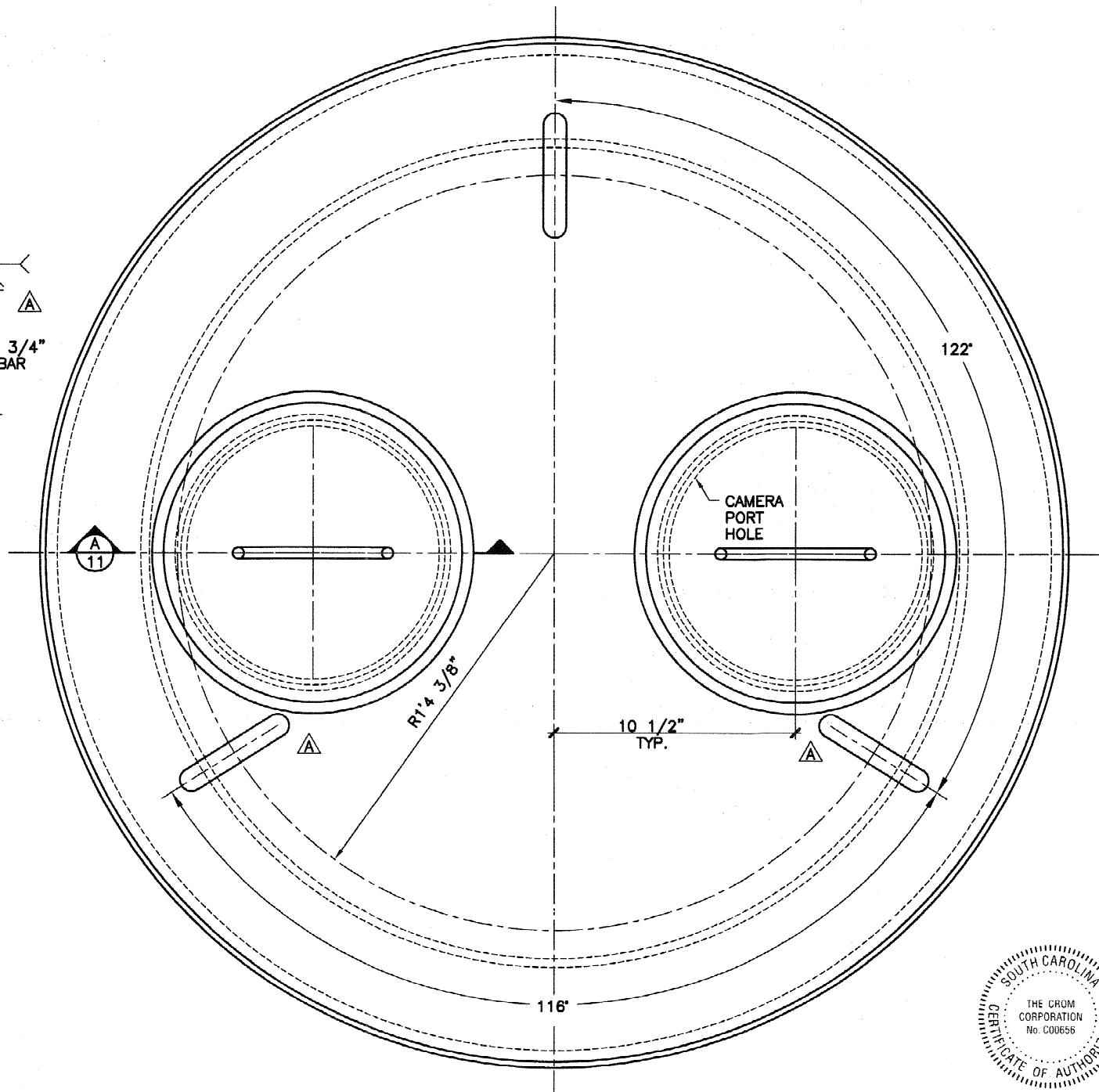
SCALE:
AS NOTED

FILE NO. 08084SD
REV A

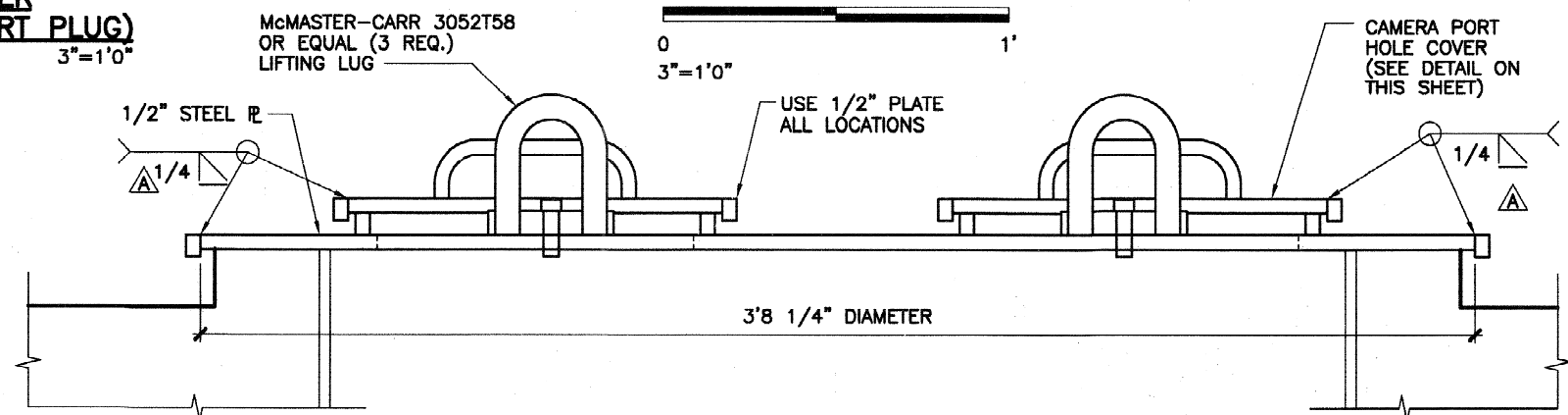
SHEET 11 OF 15



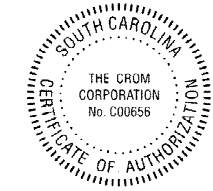
CAMERA PORT HOLE COVER
(2 REQ. FOR EACH CAMERA PORT PLUG)
3"=1'0"

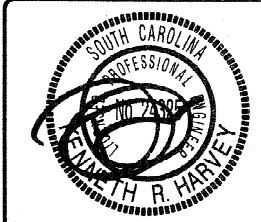


PLAN
0 1'
3"=1'0"



10 CAMERA PORT PLUG (3 REQ.)





TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE

AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.

AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08
DRAWN: MAL
CHECKED: DAB/MLM
APPROVED: LOB
DESIGNED: KRT

REV.	DESCRIPTION	DATE CK. BY
1	MODIFIED WELD SYMBOL.	
		12/17/08
2	ADDED NOTE, REVISED DIMENSION	
		5/5/09

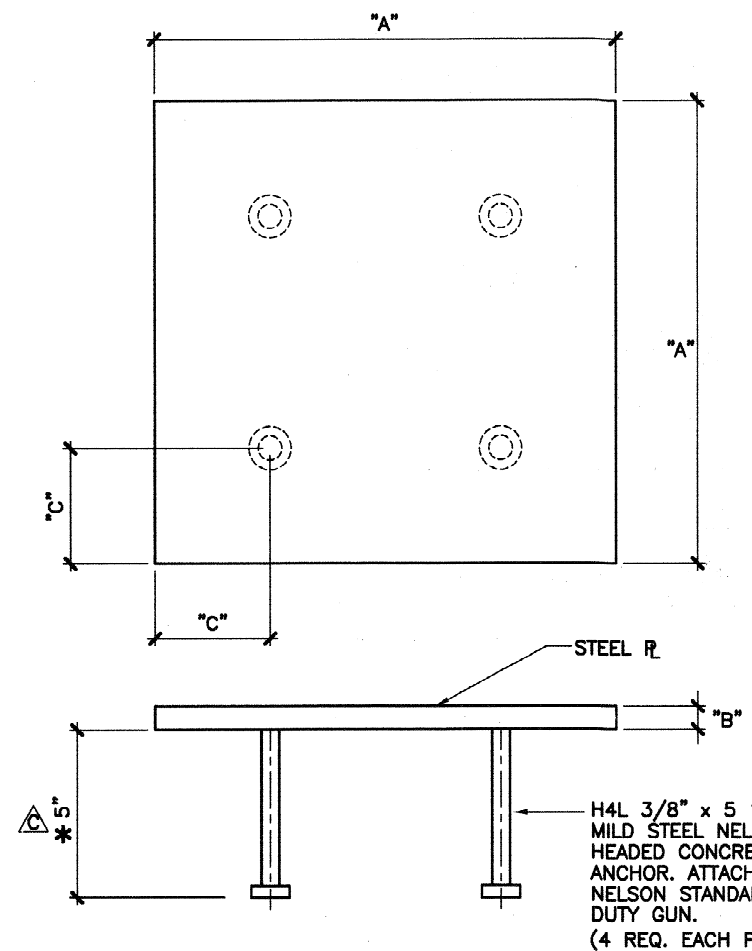
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SCALE:
AS NOTED

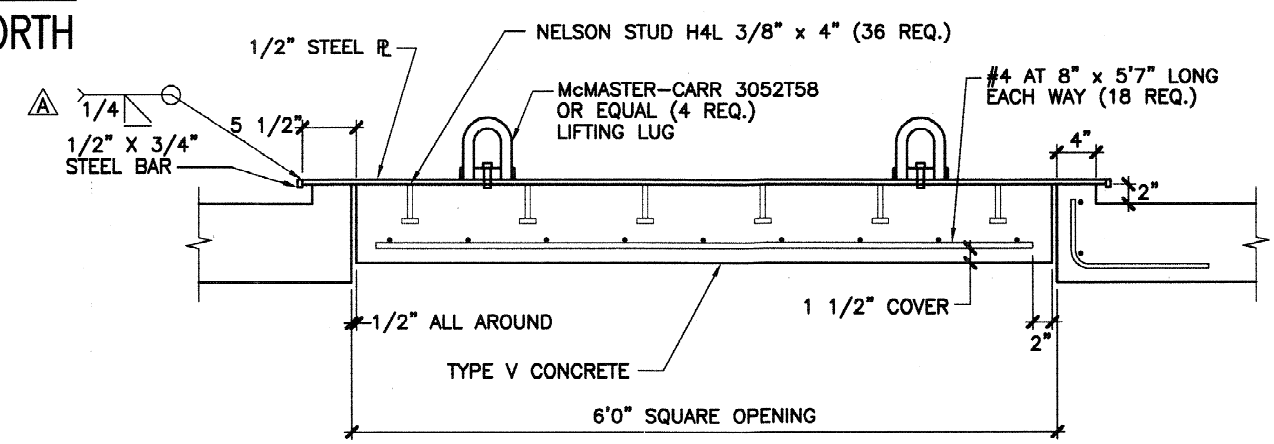
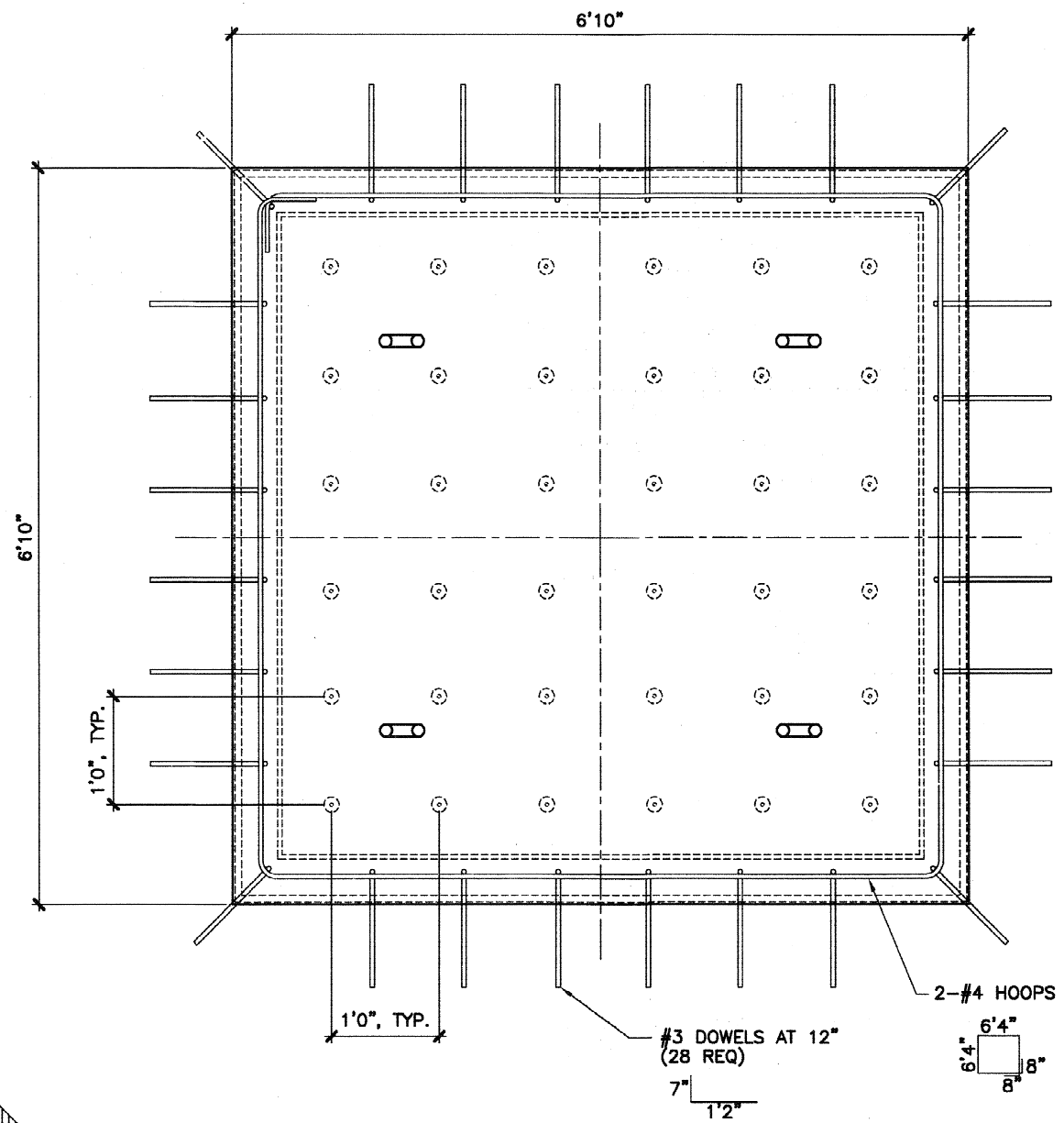
FILE NO. 08084SD
REV C

SHEET 12 OF 15



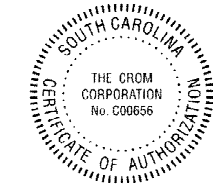
ITEM #	"A" INCHES	"B" INCHES	"C" INCHES	TANK 2A NO. REQ.	TANK 2B NO. REQ.
THERMOWELL (FLOOR)	12	1/2	3	4	4
THERMOWELL JUNC. BOX	15	1/2	3 3/4	4	4
CAMERA JUNC. BOX	24	1/2	6	3	3
GROUT FILL SUPPORT PLATES	24	3/4	6	8	8
CONDUIT SUPPORT EMBEDS	12	1/2	3	38	36

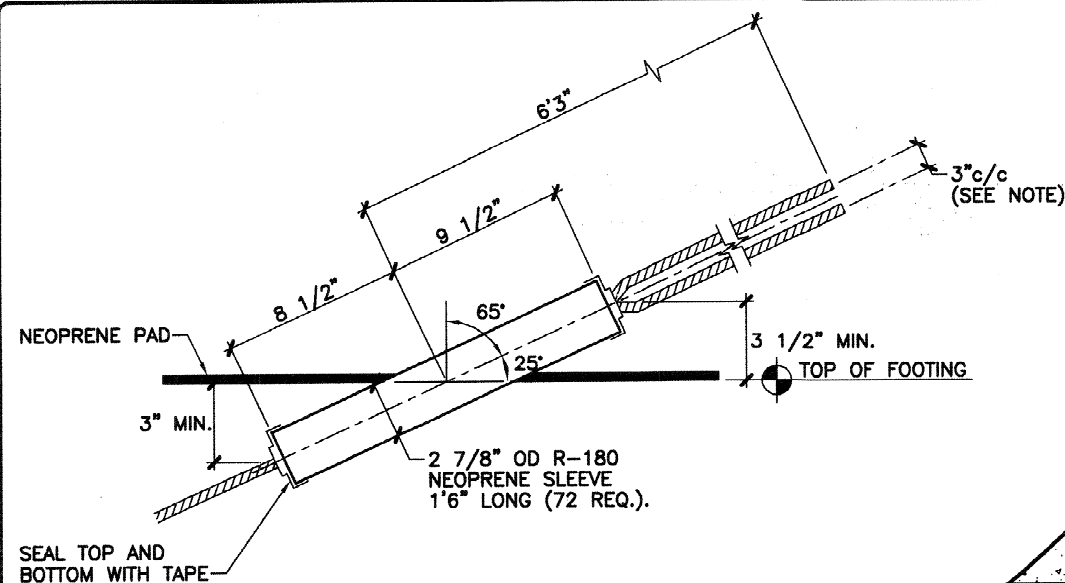
* FLOOR PLATE ANCHORS 6" LONG



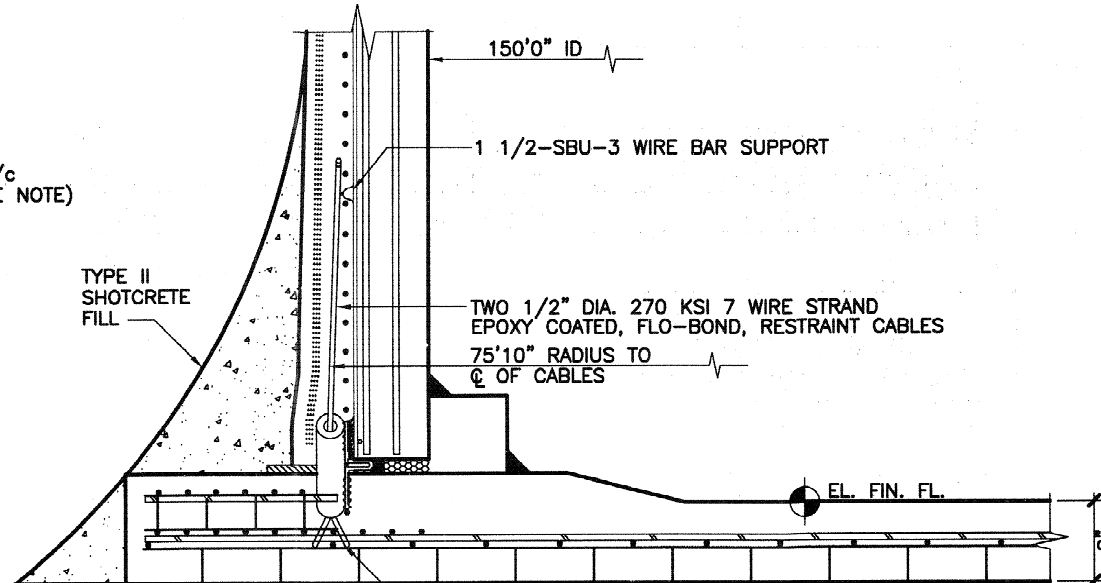
11 FLAT ROOF/FLOOR EMBED PLATES

12 HATCH COVER
NTS

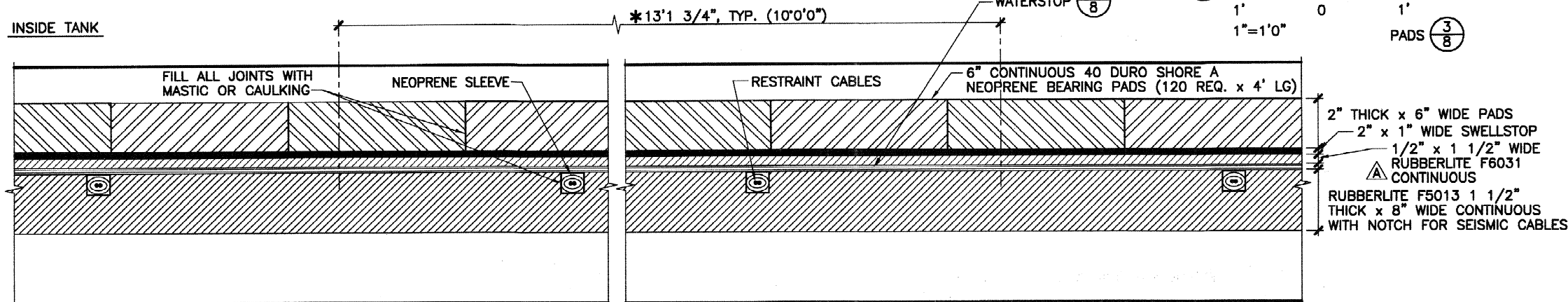




R-180 NEOPRENE SLEEVE
NTS



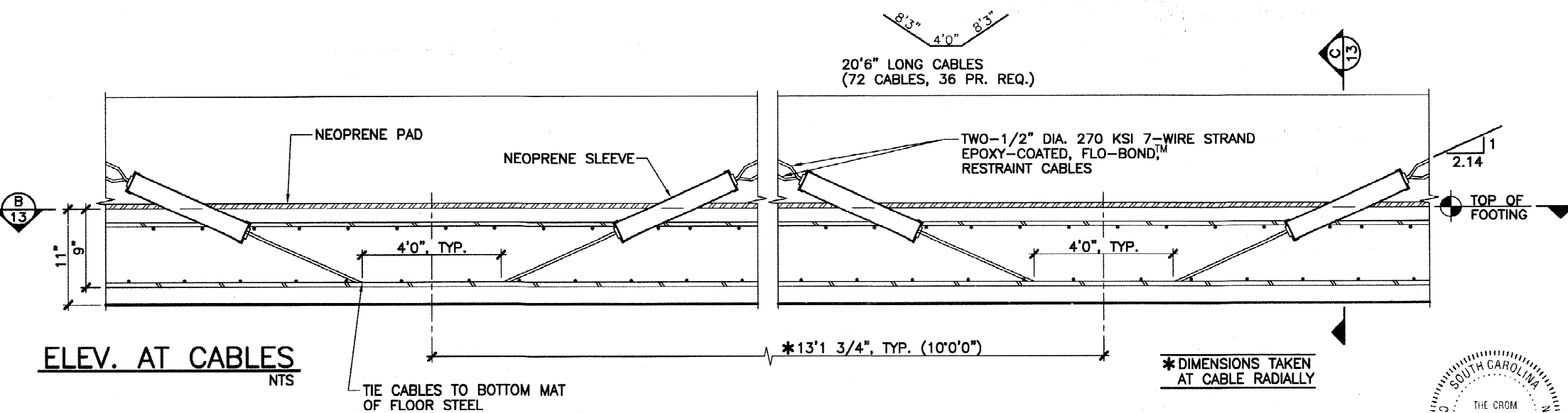
SECTION C



SECTION B

INSIDE TANK

NOTE: SPREAD CABLES 3" c/c ALONG FULL LENGTH IN WALL & FOOTING



ELEV. AT CABLES
NTS

13 SEISMIC RESTRAINT CABLES



TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08
DRAWN: MAL
CHECKED: DAB/MLM
APPROVED: LOB
DESIGNED: KRH

REV.	DESCRIPTION	DATE CK. BY
1	CORRECTED NOTE.	12/17/08

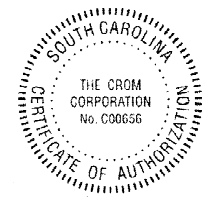
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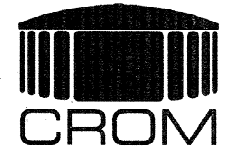
BAR IS ONE INCH ON ORIGINAL DRAWINGS 0 1"

SCALE:
AS NOTED

FILE NO. **08084SD**
REV **A**

SHEET **13** OF **15**





TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08

DRAWN: MAL

CHECKED: DAB/MLM

APPROVED: LOB

DESIGNED: KRH

REV.	DESCRIPTION	DATE CHK. BY
△	REVISED MANHOLE. REVISED RADIUS.	
△	REVISED TANK ELEVATIONS. MODIFIED CONSTRUCTION MANHOLE RESTEEL.	12/17/08
△	DIM. WAS 4"	3/27/09
		5/5/09

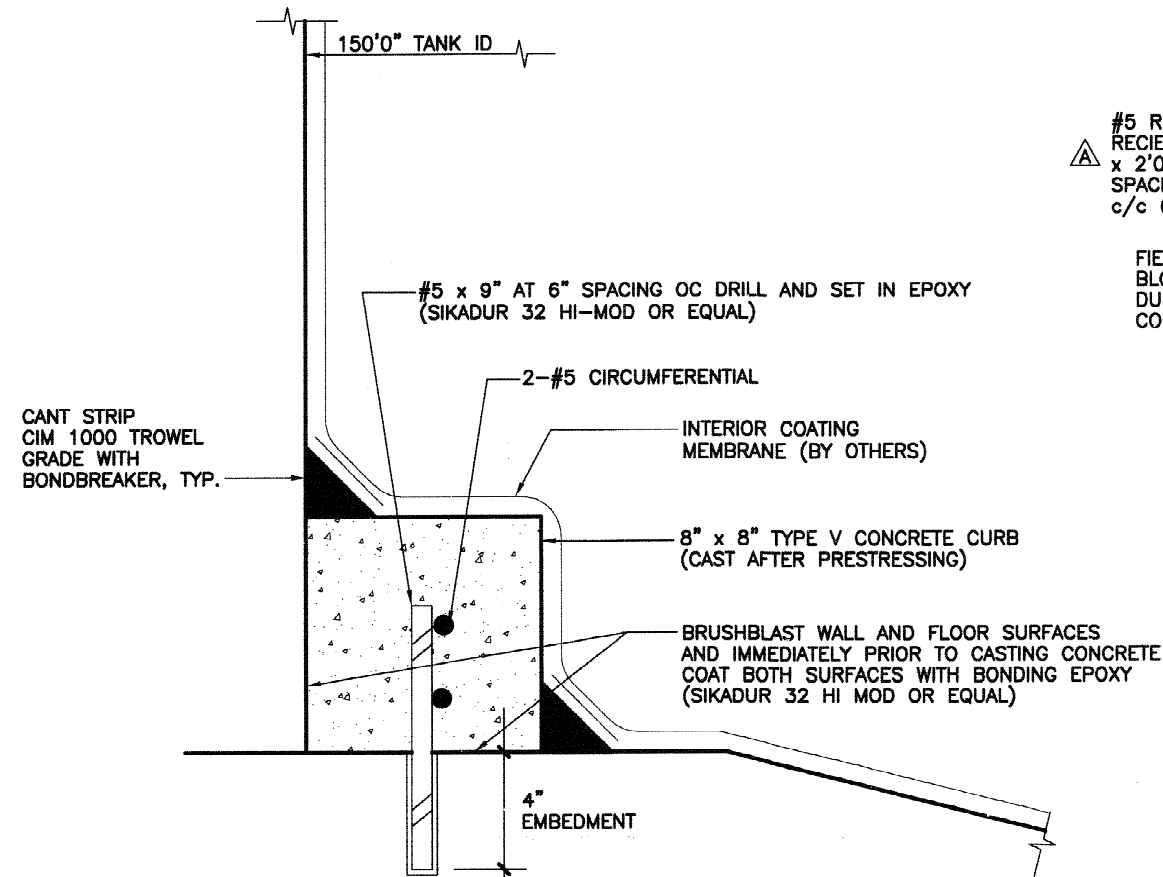
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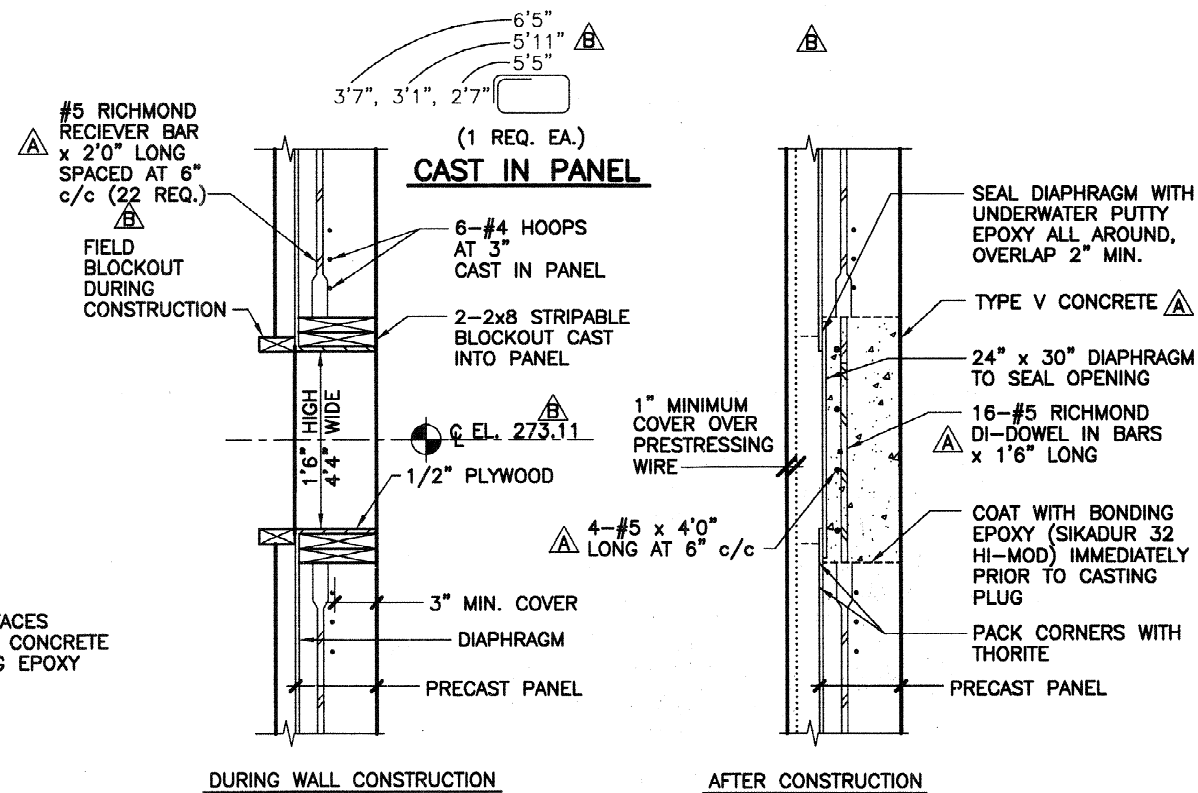
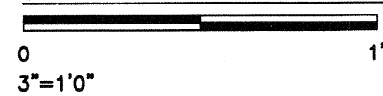
SCALE:
AS NOTED

FILE NO. 08084SD
REV C

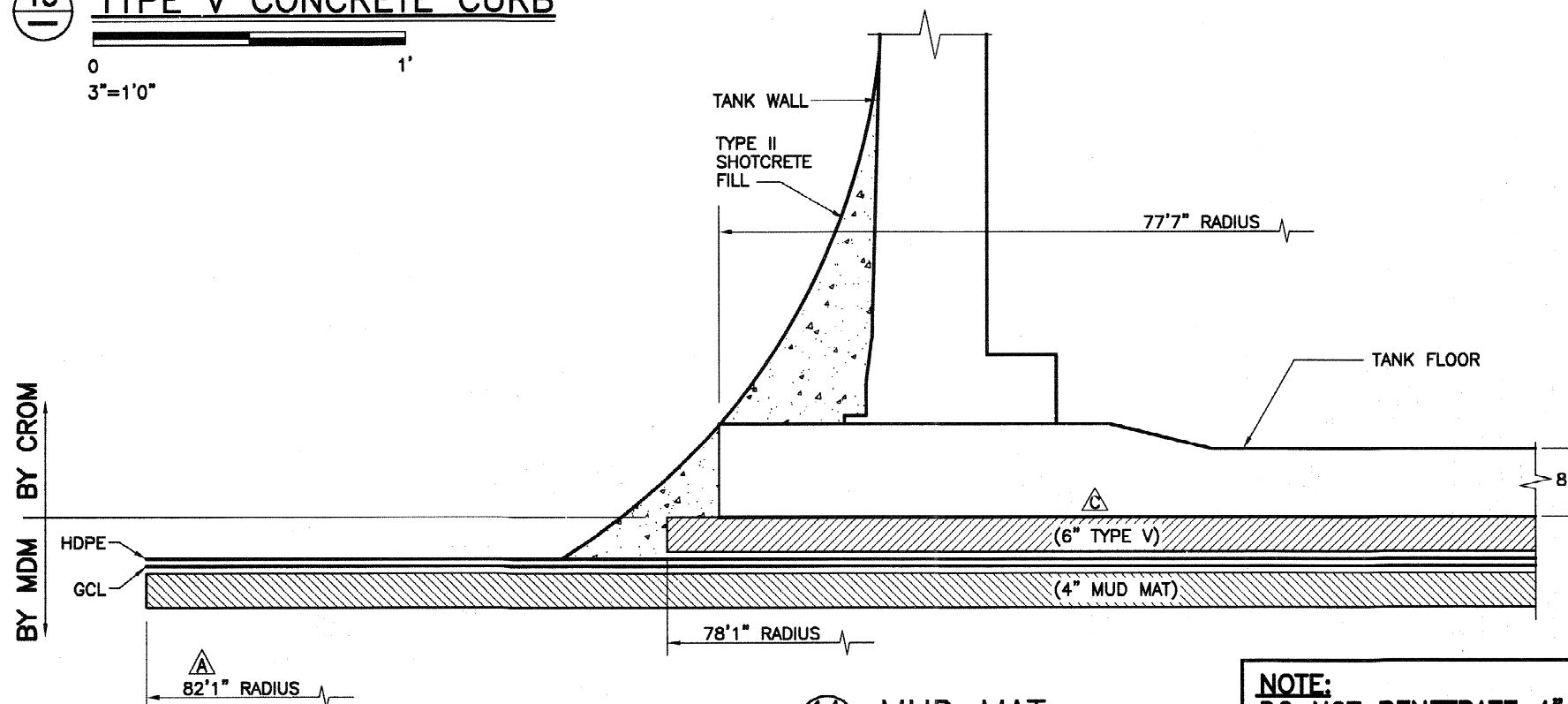
SHEET 14 OF 15



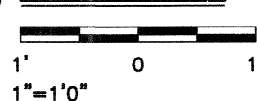
15 TYPE V CONCRETE CURB



16 CONSTRUCTION MANHOLE
NTS



14 MUD MAT



NOTE:
DO NOT PENETRATE 4"
THICK TOP MUD MAT





TANK BUILDER:
THE CROM CORPORATION
GAINESVILLE, FLORIDA

OWNER:
DEPT OF ENERGY
SAVANNAH RIVER SITE
AIKEN
SOUTH CAROLINA

CONSULTING ENGINEER:
BECHTEL
SAVANNAH RIVER, INC.
AIKEN
SOUTH CAROLINA

TANK DESCRIPTION:
2.9-MG SALTSTONE
STORAGE TANKS

TANK DIMENSIONS:
150'0" ID x 22'0" SWD

DATE: 11/18/08
DRAWN: MAL
CHECKED: DAB/MLM
APPROVED: LOB
DESIGNED: KRN

REV.	DESCRIPTION	DATE CHK BY
△	ADDED NOTE. REVISED WELD SYMBOL.	12/17/08
△	REVISED WELD TYPE.	12/17/08

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

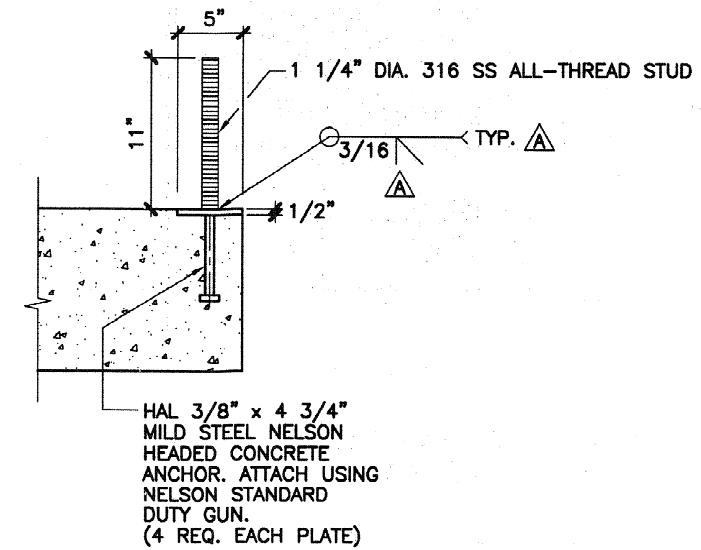
BAR IS ONE INCH ON ORIGINAL DRAWINGS 0 1"

SCALE:

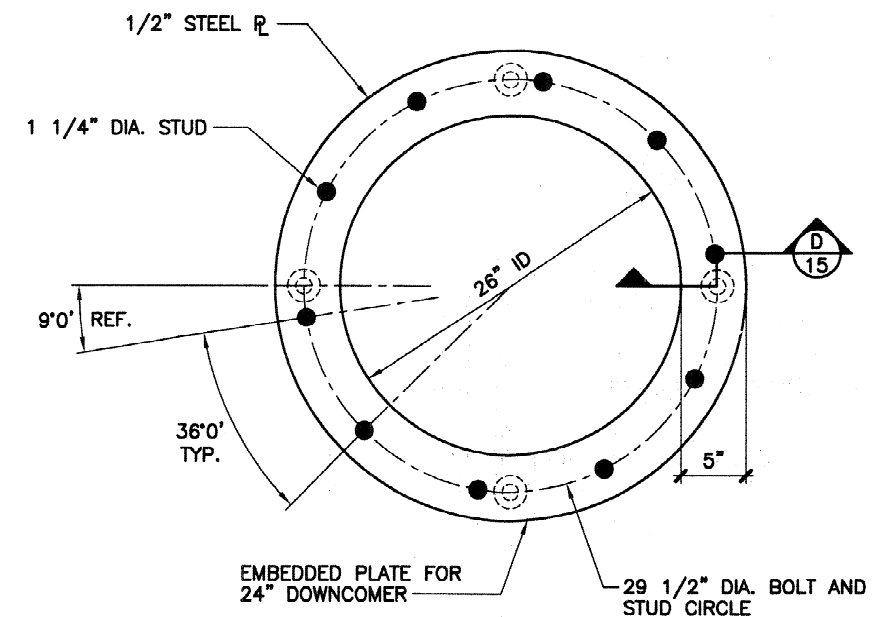
NTS

FILE NO. 08084SD
REV A

SHEET 15 OF 15



D SECTION



17 24" PVC DOWNCOMER EMBED

△ NOTE:
SEE DWG C-CH-Z-00014 DETAIL 3 FOR 24" DIAMETER DOWNCOMER SUPPORT H-1 WALL MOUNTING PLATES

