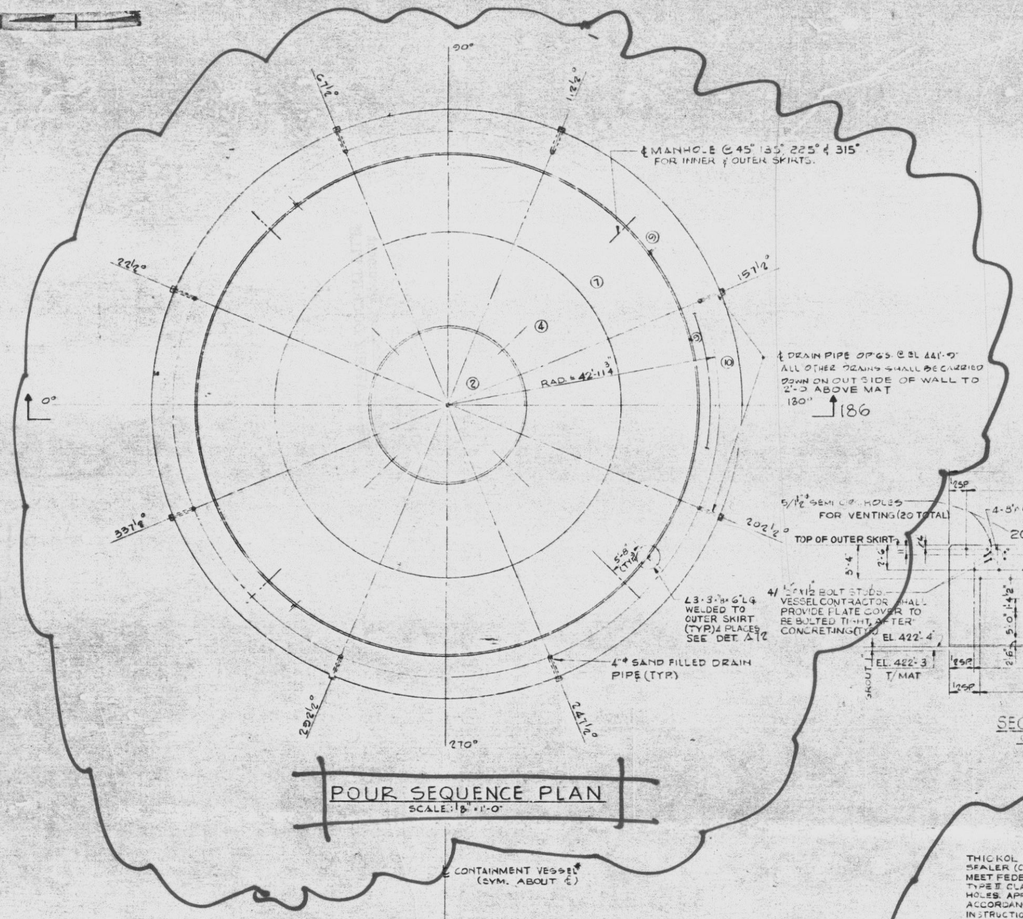
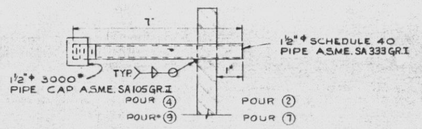



## POUR SEQUENCE PLAN

SCALE: 1/8" = 1'-0"

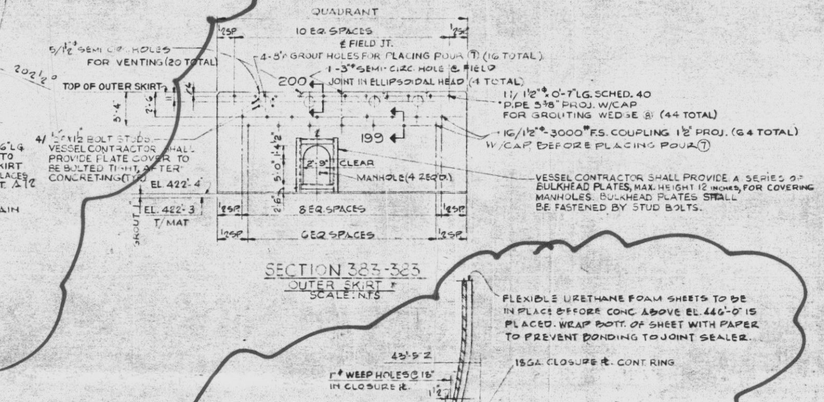
## SECTION 199-199*

SCALE: N.T.S.




## SECTION 200-200*

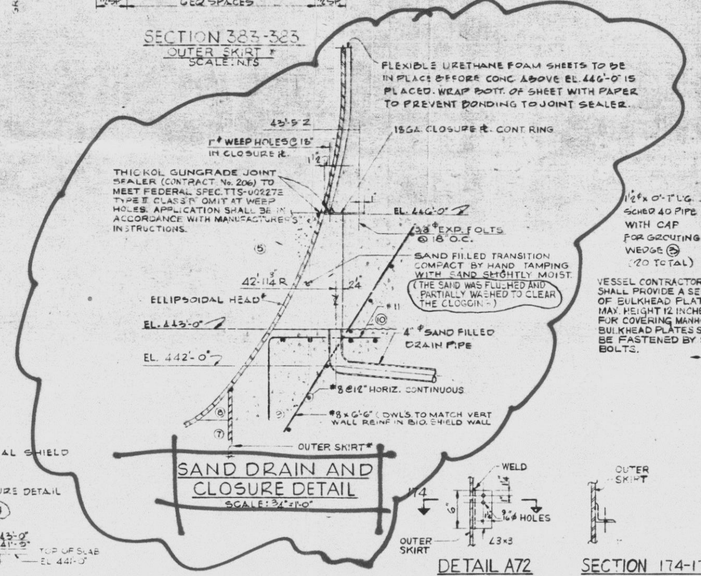
SCALE N.T.S.




## SECTION 383-383

OUTER SKIRT

SCALE: N.T.S




## SAND DRAIN AND CLOSURE DETAIL

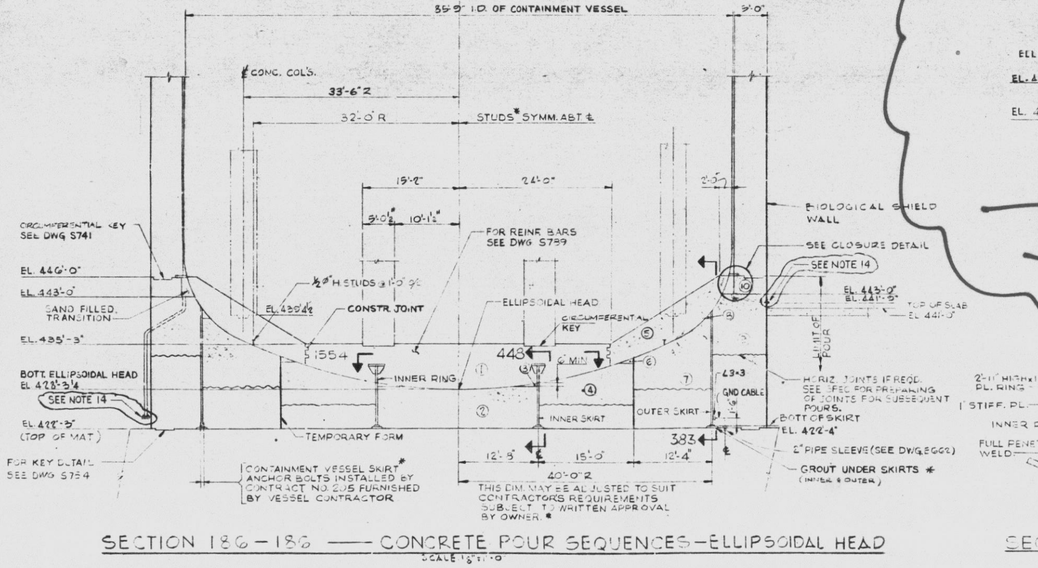
SCALE: 3/4" = 1'-0"




## SECTION 448-448

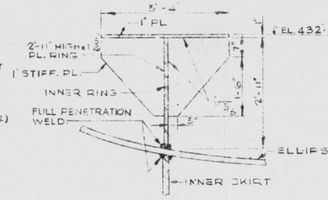
INNER SKIRT*

SCALE: N.T.S.



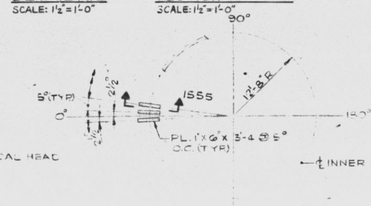

## SECTION 186-186 —— CONCRETE POUR SEQUENCES—ELLIPSOIDAL HEAD

SCALE: 1/8" = 1'-0"



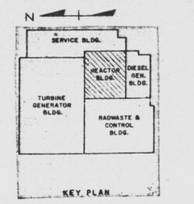

## SECTION 1555-1555*

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




## SECTION 1554-1554*

SCALE: 1/8" = 1'-0"







## DETAIL A72

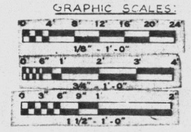
SCALE: 1½" = 1'-0"




## SECTION 174-174

SCALE: 1½" = 1'-0"

GRAPHIC SCALES:




NOTES:

1. FOR GENERAL CONC. NOTES SEE DWG. S 749 UNLESS OTHERWISE NOTED.
2. THE NOTES THAT FOLLOW APPLY ONLY TO WORK SHOWN ON THIS DWG.
3. ① = CONTAINMENT CONC. POUR, ELEVATION NUMBER
4. A SMOOTH COLD FINISH SHALL BE USED ON ALL CONC. SURFACES THAT SHALL BE PLACED AGAINST AT PLACES OF REINFORCEMENT CONGESTION CONTRACTOR MAY USE CLASS 4BA CONCRETE FOR BLANKET CONC. OUTSIDE ELLIPSOIDAL HEAD SEE NOTE #11.
5. SURFACES THAT COME IN CONTACT WITH POUR SHALL BE CLEANED IN ACCORDANCE WITH SPECIFICATION BEFORE THAT POUR IS MADE.
6. EACH POUR SHALL BE CONTINUOUS, PRIOR TO EACH SUCCEEDING CONC. POUR, PREVIOUSLY POURED CONC. SURFACES THAT ADJOIN THE NEW CONC. SHALL BE PROPERLY PREPARED IN ACCORDANCE WITH SPECIFICATION. (CONTRACT NO. 205).
7. SAND FOR SAND POCKET SHALL CONFORM TO A.S.T.M. C 33 NOM. FINE AGGREGATE.
8. MATERIAL FOR DRAIN PIPE SHALL CONFORM TO A.S.T.M. A-53 GRADE B, SCH 40. LOWER END OF DRAIN PIPE SHALL BE FITTED WITH A COUPLING 6" LONG AND 10 MESH NON-FERROUS SCREEN ENTIRE DRAIN PIPE SHALL BE PILLED WITH SAND AS SPECIFIED ABOVE.
9. THE SEQUENCE OF CONCRETING OPERATIONS SHALL BE AS FOLLOWS:-
   (A) PLACE CONC. IN POUR ① @ BOTTOM OF ELLIPSOIDAL HEAD TO EL. 435'-3"
   (B) START PLACING CONC. IN POUR ② AFTER A MIN. OF 6 HOURS FROM COMPLETION OF POUR ① COMPLYING WITH THE FOLLOWING PROCEDURES:-
   (1) CLOSE MANHOLES IN SKIRT BY BOLTING UP WITH BULKHEAD PLATES AS REQ'D.
   (2) PROCEED WITH PLACING CONC. IN POUR ② BY USING 8"ø HOLES OF INNER SKIRT.
   (C) A MINIMUM OF 7 DAYS AFTER COMPLETION OF POUR ② SHALL BE ALLOWED BEFORE WEDGE ⑧ IS PLACED BY PRESSURE GROUTING, USING 1½"ø PIPE & CAP SUPPLIED IN THE SKIRT FOR THIS PURPOSE. PRESSURE FOR GROUTING SHALL BE AT 2 PSIG. (MAX.)
   (D) SHOULD THE CONTRACTOR ELECT TO HAVE THE FORMS BETWEEN POURS ① & ② IN PLACE THE FORM SHALL BE MADE OF STEEL AND SHALL HAVE 1" ø CONC. ANCHORS @ 24" O.C. EACH WAY, EACH FACE. THE FORM SHALL BE SET 6" CLEAR OF THE VESSEL HEAD.
   (E) PLACE CONCRETE IN POUR ③ AFTER A MINIMUM OF 1 DAY FROM COMPLETION OF WEDGE ⑧ SUCH THAT CONC. SHALL OVERFLOW THE TEMPORARY POUR IN A CONTINOUS RING.
   (F) PLACE CONCRETE IN POUR ⑤ AFTER A MIN. OF 5 DAYS FROM COMPLETION OF POUR ④ (START A MINIMUM OF 6 HOURS FROM COMPLETION OF POUR ⑤ BUT NOT EARLIER THAN 7 DAYS AFTER POUR ④ FOR HALF WEDGE ⑨ WITH A MIX OF GROUT USING CHEM-COMP CEMENT.
   (H) START PLACING CONC. IN POUR ⑨ AFTER A MIN. OF 1 DAY FROM COMPLETION OF WEDGE ⑨ IN FOLLOWING STEPS:
   (I) CLOSE MANHOLES BY BOLTING UP WITH BULKHEAD PLATES AS REQ'D. CAP 1½"ø - 3000# F.S. COUPLING AS SHOWN ON SECTION 383-383.
   (2) PROCEED WITH PLACING CONCRETE IN POUR ⑨ BY USING 8"ø HOLES AND 1½" COUPLINGS IN THE OUTER SKIRT.
   (E) A MINIMUM OF 7 DAYS AFTER COMPLETION OF POUR ⑨ SHALL BE ALLOWED BEFORE WEDGE ⑧ IS PLACED BY PRESSURE GROUTING, USING 1½"ø PIPE & CAP SUPPLIED IN THE OUTER SKIRT. PRESSURE FOR GROUTING SHALL BE MAINTAINED AT 2 PSIG (MAX.)
   (J) PLACE CONCRETE IN POUR ⑨.
10. ITEMS MARKED THUS * SHALL BE FURNISHED BY VESSEL CONTRACTOR (CONTRACT No. 213). OTHER ITEMS NOT SO MARKED SHALL BE SUPPLIED BY CONTRACT No. 206 EXCEPT AS NOTED.
11. SUPPORT CONC. FOR POURS ②-④ & ⑥-⑧ SHALL BE A MIXTURE USING CHEM-COMP CEMENT. COMPRESSIVE STRENGTH SHALL BE A MINIMUM OF 1000 PSI IN 28 DAYS.
12. CONCRETE FOR POUR ① & ⑨ SHALL BE CLASS 4MA
13. CHEM-COMP CEMENT IN A CONC. OR GROUT MIX SHALL BE PUMPABLE AND SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO ITS USE IN THE FOUNDATION. STRENGTH TESTS OF MIX SHALL BE SUBMITTED AS WELL AS LENGTH CHANGE TESTS AS PER A.S.T.M. C-157. THESE TESTS SHALL BE PROVIDED AT NO COST TO THE OWNER
14. 4"ø DRAIN PIPES AT 22½°, 67½°, 112½°, 247½°, 292½° AND 337½° SHALL BE BLANK FLANGED AT END OF DRAIN. 4"ø DRAIN PIPES AT 157½° AND 202½° SHALL BE LEFT OPEN. FLANGES SHALL BE CARBON STEEL ANSI 150# CLASS.

TI APERTURE CARD

ALL WORK ON THIS DRAWING IS QUALITY CLASS I

BURNS AND ROE, INC.
ENGINEERS AND CONSTRUCTORS
ORADELL, N.J. HEMPSTEAD, N.Y. LOS ANGELES, CALIF.

STRUCTURAL
REACTOR BUILDING
METHOD OF CONC. PLACEMENT AT CONTAINMENT VESSEL-ELLIPSOIDAL HEAD

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
HANFORD No. 2

| ENGINEERING REVIEW | | | | SCALE AS NOTED |
|---|---|---|---|---|
| DIVISION | MECH. | ELECT. | STRUCT. | DRWN. MNC / CHKD. F. ACES / 5-6 |
| ENG'R | | | | LDR. 20 / DATE 3-1-72 |
| DATE | | | | APPROVED FOR CONSTRUCTION |
| FOR DIV. CIVIL | | | | W. O. 2808 |
| FILENT APPROVAL | | | | DWG. S740 REV. 7 |

| REV. NO. | REVISION | DATE | DRAWN | CHKD. | APPROVED ENGR. | APPROVED PROJ. MGR. |
|---|---|---|---|---|---|---|
| 7 | PER "ALL SHOWN" REQ'D PER M-14 & M-11, 11, 10 & 7 | 3-3-72 | ALW | RH | JWP | 3/7/72 |
| 6 | REVISED NOTES (7), (2F), (3), & (10) | 12-13 | CSC | PS | JWP | 12/27/72 |
| 5 | ADDED ELEV. SECT 555-1557 CLARIFIES OUTER SKIRT & SAND DRAIN / CLOSURE DETAIL / REVD DIM. (C8) ADDED FOUR 1½ (C11) HOLES / REVD NOTE 12 (8) DIM. (B3) REVISED AS PER PCN 220, 271, 290 & 691. | 1-5-74 | MB | JWP | CSC | 2-4-74 |
| 4 | ADD'D CONC. & AS PER PCN 220 & DELINATION OF AB'S IN SECT 186 | 2-4-74 | MB | JWP | CSC | 2-4-74 |

| REV. NO. | REVISION | DATE | DRAWN | CHKD. | APPROVED ENGR. | APPROVED PROJ. MGR. |
|---|---|---|---|---|---|---|
| 1 | REVISED DETAIL TYPICAL (3), (8) & NOTE 9 IN PLAN (H10) | 4-4-72 | HWP | JW | JWP | 4/7/72 |
| 2 | REVISED NOTES 9, 6 & 7 (2A) - REVISED NOTE 9 (B) NOTE SHEET 1 OF 2 - REVISED NOTE 10 (B) SHEET 1 OF 2 & SHEET 2 OF 2 | 4-14-72 | KB | LVW | JWP | 4/14/72 |
| 3 | ADDED QUALITY NOTE (CC) SECT 1591 (H-K) - REV. TEXT (C) (1) SECT 1541 (H-J) - SECT X-X (B) SAND DRAIN SECTION (A) - SECT X-X (B) SAND DRAIN DWG. APPRO. 90 PER CONSTRUCTION | 10-16-72 | HWP | JW | JWP | 10/17/72 |

| RELEASED FOR | BY | DATE |
|---|---|---|
| STATUS | | |
| BIDDING ONLY | | |
| ADDENDUM NO. | | |
| AMENDMENT NO. | | |
| CONSTRUCTION | | |
| APPLY TO SPEC. NO. | | |

8802110323