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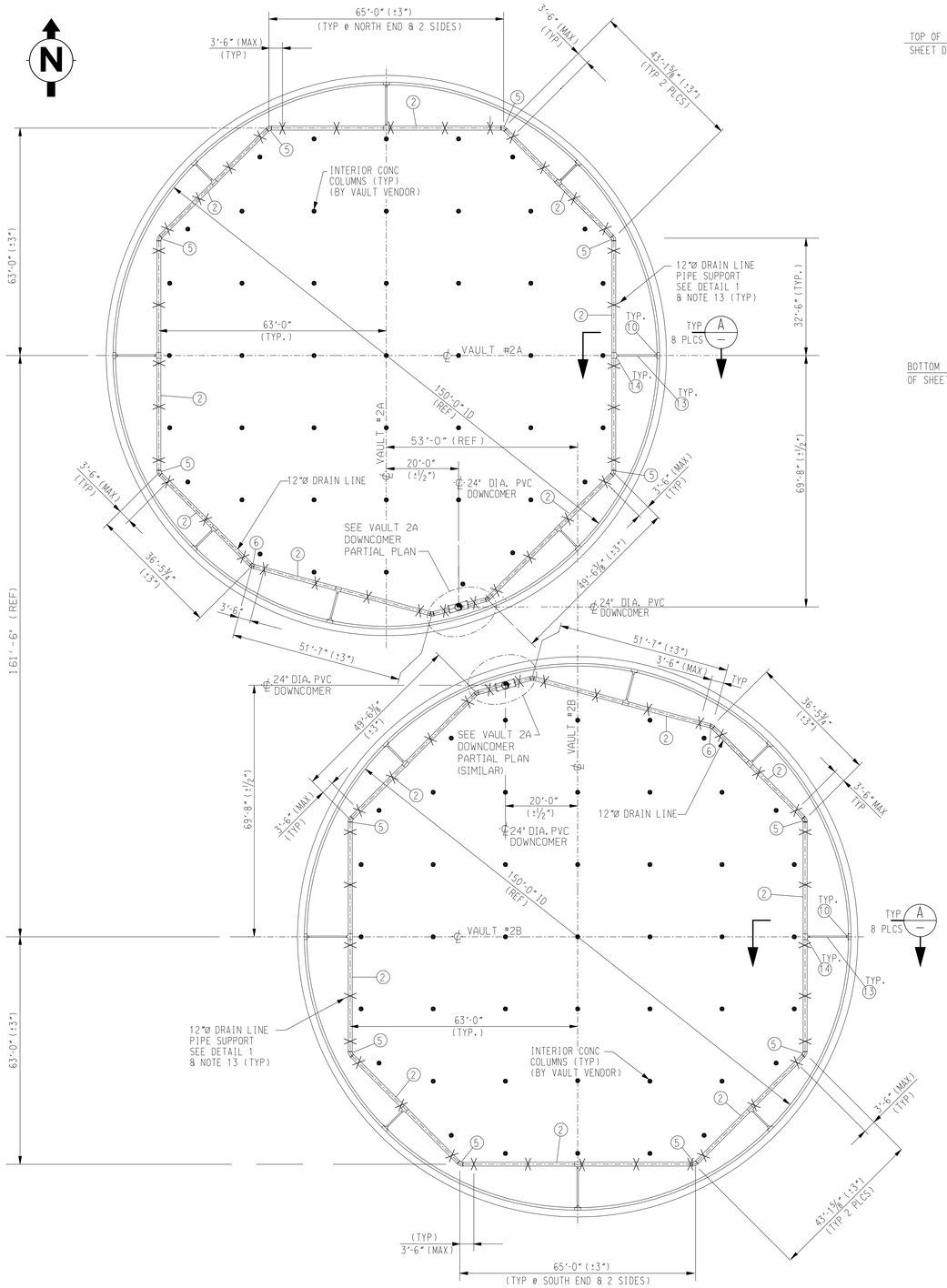
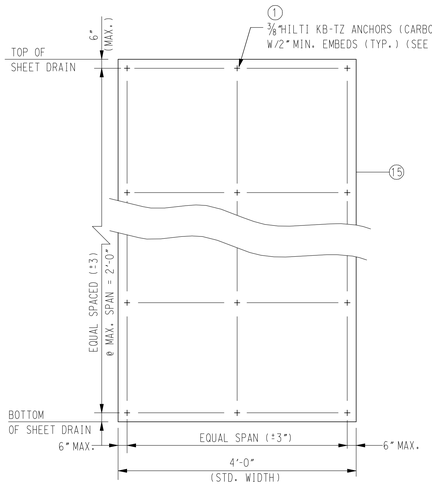
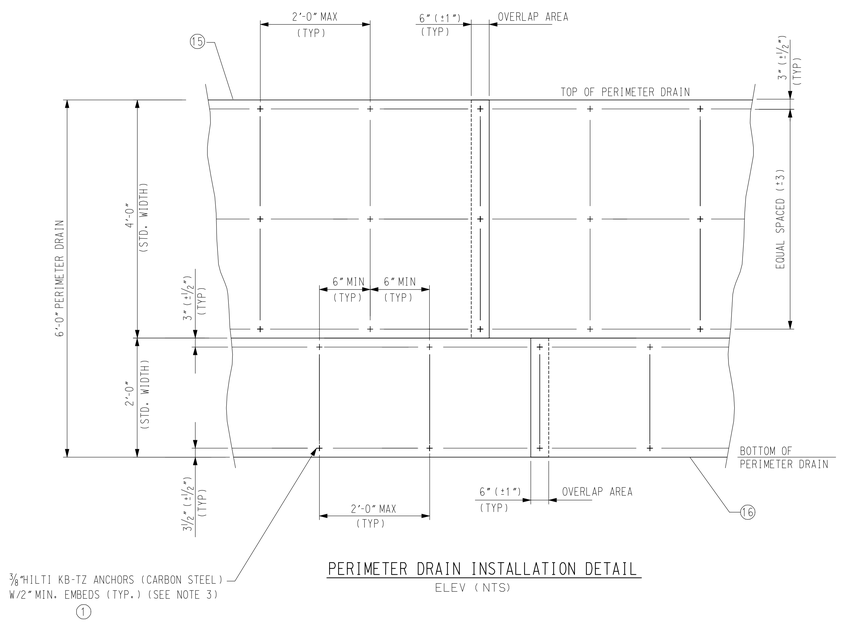


PLAN VIEW



SHEET DRAIN INSTALLATION DETAIL

ELEV (NTS)

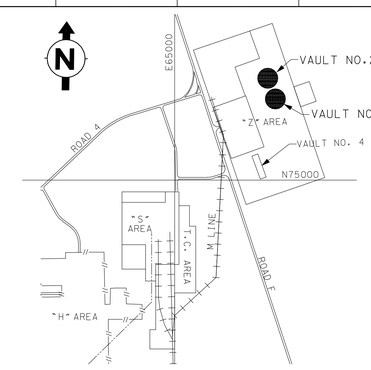


PERIMETER DRAIN INSTALLATION DETAIL

ELEV (NTS)

BILL OF MATERIAL

ITEM	QTY PER VAULT	DESCRIPTION
1	AS REQ'D	⅜"HILTI KB-TZ ANCHORS (CARBON STEEL) WITH FENDER WASHER (SEE NOTE 3)
2	450'	12" DIA. PIPE, CPVC SCH 40, ASTM D1785
3	1	24" CPVC TEE MNFLD ASSY, SCH 40, #C-404-240C BY SPEARS MANUFACTURING CO.
4	NA	(NOT USED)
5	6	12"-45° SCH 40 ELBOW, SOCKET, ASTM F1866
6	3	12"-30° SCH 40 ELBOW, SOCKET, ASTM F1866
7	10	1¼" DIA. STUD, ASTM A193 B7 OR CONT. THRD'D ROD
8	20	1¼" NUT, ASTM A194-2H
9	1	24" CPVC FLANGE VAN STONE STYLE PART NO. 854-240FP BY SPEARS MANUF CO.
10	8	UNIVERSAL TEE FITTING (FOR SHEET DRAIN)
11	20	1¼"-7 JAM NUT McMASTER-CARR #91851A660
12	20	FULL FACE HARDEN WASHER, ASTM F436
13	AS REQ'D	4" SCH 40 CPVC PIPE, ASTM D1785
14	8	12"x4" SCH 40 TEE, SOCKET ASTM F1866
15	AS REQ'D	AMERDRAIN 500
16	AS REQ'D	AMERDRAIN TOTAL DRAIN
**	AS REQ'D	** SEE DETL 1 & 3, SUPT H-1 FOR SUPT MATL



KEY PLAN

NOTES

1. DOWNCOMER SHALL BE ALIGNED WITH CENTERLINE OF DOWNCOMER ROOF PENETRATION (±½").
2. FIELD SHALL VERIFY ALL DIMENSIONS PRIOR TO COLLECTION DRAINAGE SYSTEM INSTALLATION.
3. INSTALL PERIMETER DRAIN AND SHEET DRAIN (BY AMERICAN WICK DRAIN CORPORATION, 1-800-242-WICK) IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND THESE NOTES. DRAIN SHEET SHALL BE ATTACHED TO CELL WALLS USING HILTI KB-TZ CARBON STEEL ANCHORS WITH ⅜" THICK FENDER WASHER (O.D.= 1½"). SEE SHEET DRAIN AND PERIMETER DRAIN INSTALLATION DETAIL (PER THIS DWG) FOR ADDITIONAL DETAILS.
4. INSTALL ONE HORIZONTAL ROW OF AMERDRAIN TOTAL DRAIN AND ONE HORIZONTAL ROW OF AMERDRAIN 500 (BY AMERICAN WICK DRAIN CORP OR ENGINEERING APPROVED EQUAL) ALONG THE BOTTOM INSIDE PERIMETER OF THE TANK WALLS TO FORM A SIX FOOT HIGH PERIMETER DRAIN. SEE PERIMETER DRAIN INSTALLATION DETAIL (THIS DWG) FOR ADDITIONAL DETAILS. BOTTOM OF PERIMETER DRAIN SHALL BE FLUSH WITH CONCRETE FLOOR.
5. INSTALL (32) STANDARD 4 FT SHEET DRAINS (OR ENGINEERING APPROVED EQUAL) EQUALLY SPACED ALONG THE INSIDE TANK PERIMETER WALL FROM TOP OF 6 FT HIGH PERIMETER DRAIN TO TOP OF VAULT WALL. SEE SHEET DRAIN INSTALLATION DETAIL (PER THIS DWG) FOR ADDITIONAL DETAILS.
6. INSTALL 12"Ø CPVC PIPE (ASTM D1785) ALONG THE FLOOR OF VAULT 2A & 2B AS SHOWN ON SHEET 1 AND 2. JOIN DRAIN PIPE BY SOLVENT CEMENTING IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS (SPEAR MANUFACTURING CO. (1-818-364-1611) OR ENGINEERING APPROVED EQUAL).
7. INSTALLATION OF CONCRETE EXPANSION ANCHORS SHALL BE IN ACCORDANCE WITH DOCUMENT C-SPP-Z-00006. THE CUTTING OF REBAR IS PROHIBITED WITHOUT PRIOR WRITTEN ENGINEERING APPROVAL.
8. PLATES & BARS SHALL BE ASTM A36; W SHAPES SHALL BE ASTM A992. ALL STRUCTURAL STEEL SHALL BE GALVANIZED (UNO).
9. GROUT SHALL BE A NON SHRINK CEMENT BASED WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 PSI.
10. WELDING SHALL BE IN ACCORDANCE WITH AWS D1.1 FOR STATICALLY LOADED STRUCTURES.
11. BOLTS SHALL BE ASTM A307 GRADE A (UNO), THREADED ROD SHALL BE ASTM A36, NUTS SHALL BE ASTM A563 GRADE A (UNO), AND WASHERS SHALL BE ASTM F436 (UNO). BOLTING MATERIAL SHALL BE GALVANIZED.
12. U-BOLTS SHALL BE GALVANIZED STANDARD U-BOLTS, ANVIL 137 OR BERGEN POWER FIGURE 283 GALVANIZED. CLEARANCES BETWEEN PIPE AND U-BOLTS SHALL BE 1/16" UNO.
13. SUPPORT LOCATIONS SHALL BE BY FIELD. MAXIMUM SPAN BETWEEN SUPPORTS SHALL BE 15'-0" UNLESS NOTED OTHERWISE.
14. INSTALLATION OF FLANGES:
    a. LEVEL THE PLASTIC FLANGE BY ADJUSTING LEVELING NUTS.

C CH Z 00014 — LATEST REVISION 0

0 15 30 45
1" - 15'

PROJ.	REV. NO.	REVISION	INITIAL AND DATE PRP'D	LEAD ENG	CHK'D/VERIF'D	APV'D	APV'D	APV'D
N/A	0	ISSUED FOR CONSTRUCTION	APPROVALS MAINTAINED IN DCR/EDWS					3/10/08

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REFERENCE DRAWINGS

P-PA-Z-00017	3" GROUT FILL LINE
M-MG-Z-00100	VAULT #2 P&ID
Q800485K-013	2.9 MG STORAGE TANK
C-CG-Z-00030	VAULT#2 FINISH GRADING PLAN
C-CG-Z-00031	VAULT#2 GRADE SECTIONS & DETAILS
Q800485K-014	2.9 MG STOR. TANK SECTIONS & DETL
C-CG-Z-00026	VAULT #2 OVERALL SITE PLAN

REFERENCE STANDARDS

UNITED STATES DEPARTMENT OF ENERGY

SAVANNAH RIVER SITE

BLDG. NO.	SITE CLEARANCE NO.	DESIGN AREA NO.	DESIGN GROUP
451-002Z	SC-5805	N/A	PD&CS

TITLE

CBU - SALTSTONE STORAGE VAULT NO. 2

DRAIN WATER COLLECTION SYSTEM PIPING ARRANGEMENT AND PIPE SUPPORT

SCALE	SRP DRAWING NO.	SHEET NO.	LATEST REVISION
1" = 15'	N/A	1 OF 2	0

W.S. # REF FILES | 1 YES | - NO | LEVELS 1111111111222222222233333333344444444455555555566666 12345678901234567890123456789012345678901234567890123456789012345678901234567890123 | PSC= PLOT DATE 01/17/08 TIME | DRAWN BY (ORIG): H. CRUZ LAST CADD REV. BY: H. CRUZ DATE: 01/17/08

Scale shown on this drawing is only applicable when plotted at 30"x42" (actual drawing size)

Tech S rev. 08/15/07

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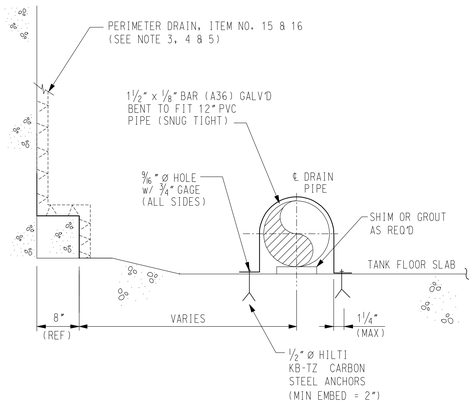
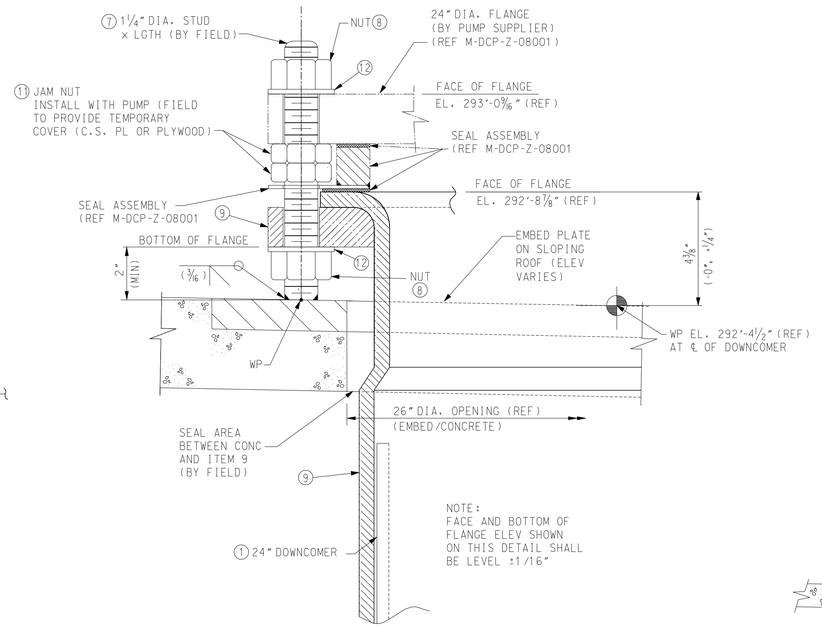
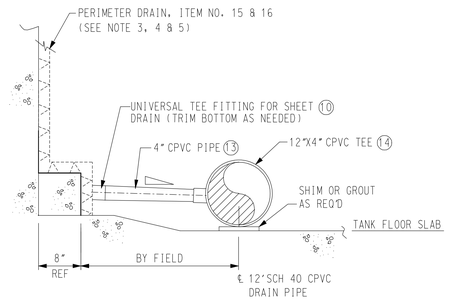


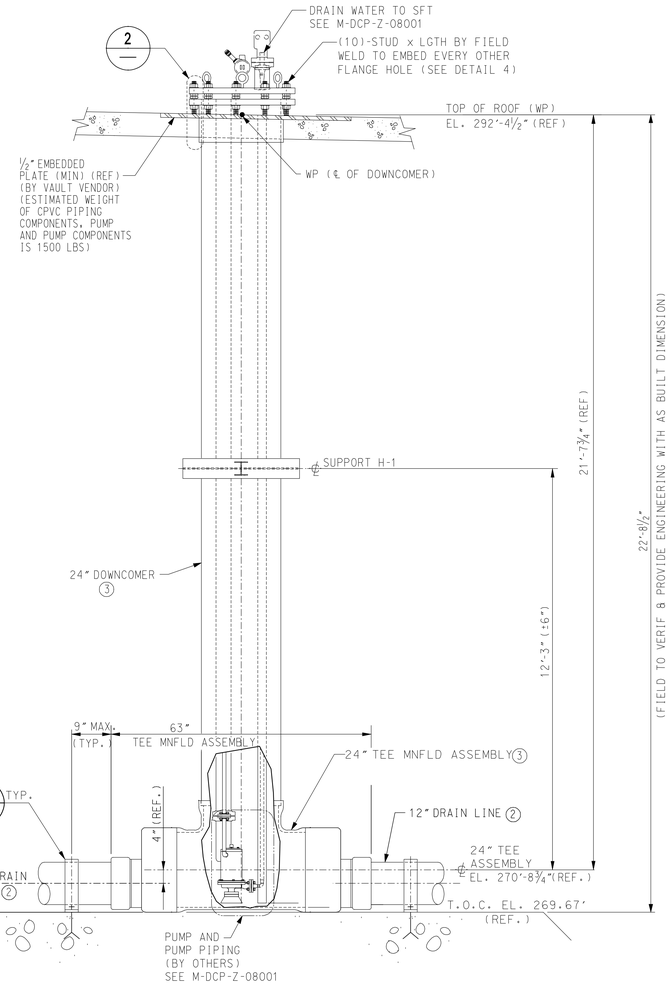
DETAIL 1
ELEV (NTS)



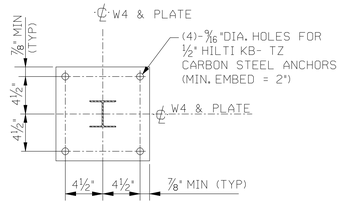
DETAIL 2
(TYP. STUD INSTALLATION)
(NTS)



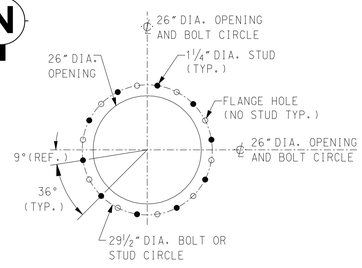
SECTION A
ELEV (NTS)



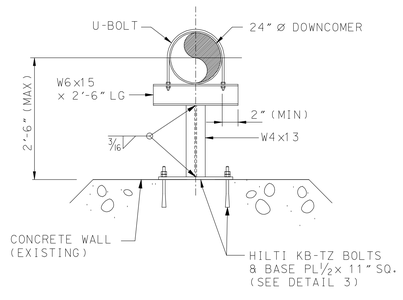
SECTION B
VAULT 2A & 2B
DOWNCOMER DETAIL
(ELEVATION)



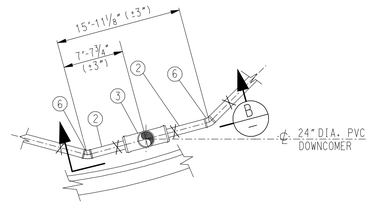
DETAIL 3
(NOT TO SCALE)



DETAIL 4
SHADED CIRCLES DENOTES
STUDS WELDED TO EMBED
(PLAN) (NTS)



SUPPORT H-1
(PLAN)(NTS)



VAULT 2A DOWNCOMER PARTIAL PLAN
(SIMILAR FOR VAULT 2B)(NTS)

UNITED STATES DEPARTMENT OF ENERGY
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TITLE
CBU-SALTSTONE STORAGE VAULT NO. 2
DRAIN WATER COLLECTION SYSTEM
PIPING ARRANGEMENT AND
PIPE SUPPORTS

C CH Z 00014

SRP DRAWING NO.	SHEET NO.	DRAWING REV.
N/A	2 OF 2	0

W.S. # ( ) .
REF FILES YES NO
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PSC= DRAWN BY (ORIG): H. CRUZ
PLOT DATE 01/17/08 TIME
LAST CADD REV. BY: H. CRUZ
DATE: 01/17/08

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