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 BOUCHEY, G. D. Washington Public Power Supply System
 RECIP. NAME RECIPIENT AFFILIATION
 YOUNGBLOOD, B. J. Licensing Branch 1

m/a.

SUBJECT: Forwards primary containment vessel design diagrams, in response to NRC 801030 ltr. Drawings detail containment geometry, shell reinforcement, plate thickness, penetration sizes & locations & matl designations.

427 Drawgs

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DRWGS TO: P.M.

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NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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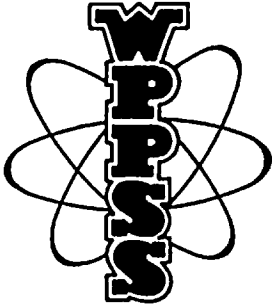
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G02-80-283
December 10, 1980

Docket No. 50-397

U. S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
Washington, D. C. 20555

Attention: Mr. B. J. Youngblood, Chief
Licensing Branch 1
Division of Licensing

Gentlemen:

Subject: WPPSS Nuclear Project No. 2
Transmittal of Containment Drawings
Requested by NRC

Reference: Letter from Mr. B. J. Youngblood, NRC, to
Mr. R. L. Ferguson, WPPSS, dated October 30, 1980

Enclosed per your request in the Reference is one set of design drawings for the WNP-2 containment showing details of the containment geometry, shell reinforcement, plate thicknesses, penetration sizes and locations, and material designations. Based on conversations with Mr. Dave Bushnell of the Lockheed Corporation, we understand the information transmitted herewith, while not including detailed shop fabrication drawings nor actual material test reports, is sufficient for purposes of the containment structural analysis to be performed by Lockheed. A copy of these drawings is being transmitted directly to Mr. Bushnell at Lockheed.

Very truly yours,

G. D. Bouchey

G. D. Bouchey
Director, Nuclear Safety

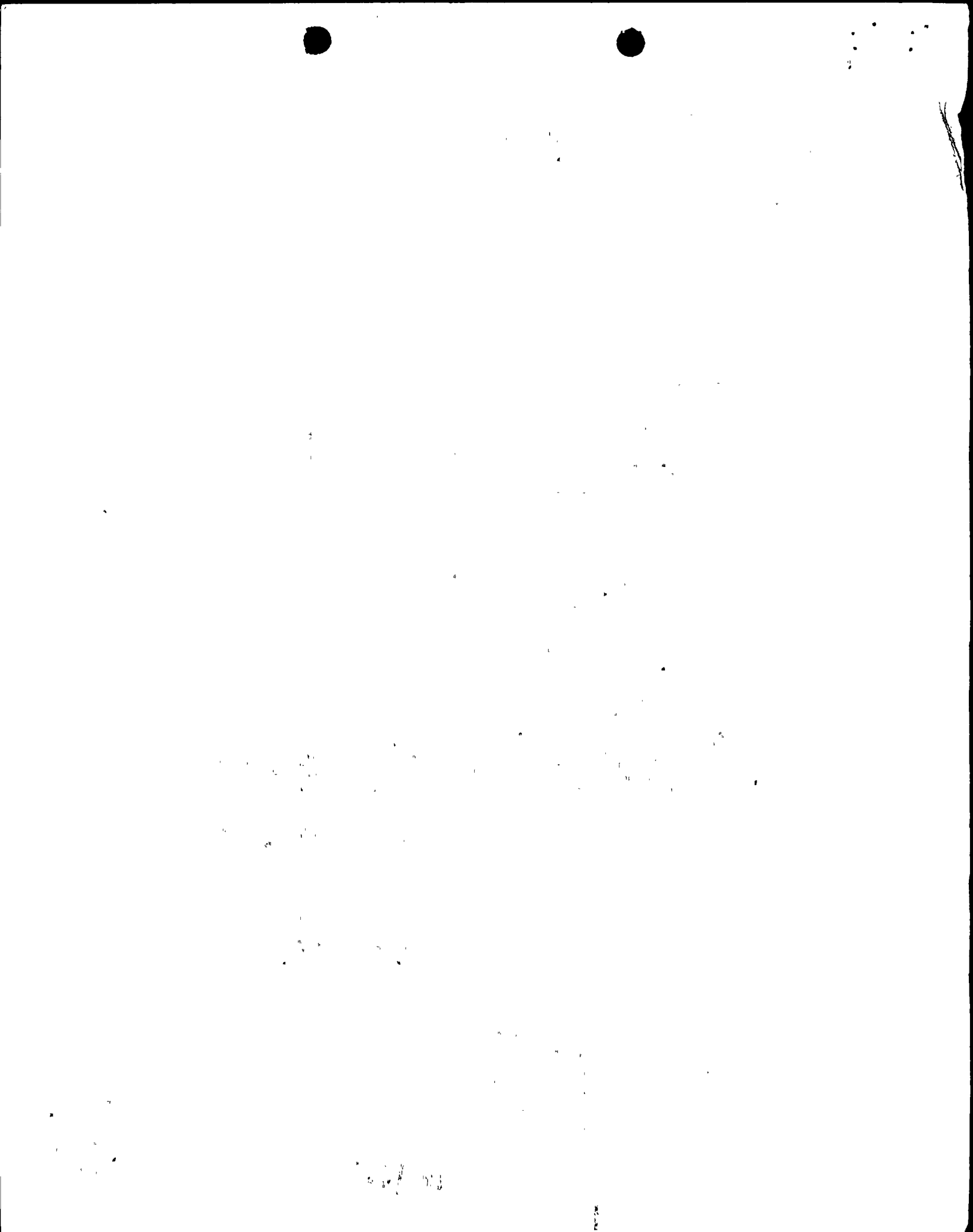
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attachments

cc: D. Bushnell - Lockheed - w/att
S. Bo Kim - NRC - wo/att
MD Lynch - NRC - wo/att
JJ Verderber - Burns & Roe - wo/att
ND Lewis - EFSEC - Olympia - wo/att
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WNP-2 Files - wo/att

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Boo 1
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Draws TO:
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Pittsburgh-Des Moines Steel Company

WPPSS PRIMARY CONTAINMENT VESSEL

NUCLEAR PROJECT NO. 2, HANFORD WA.

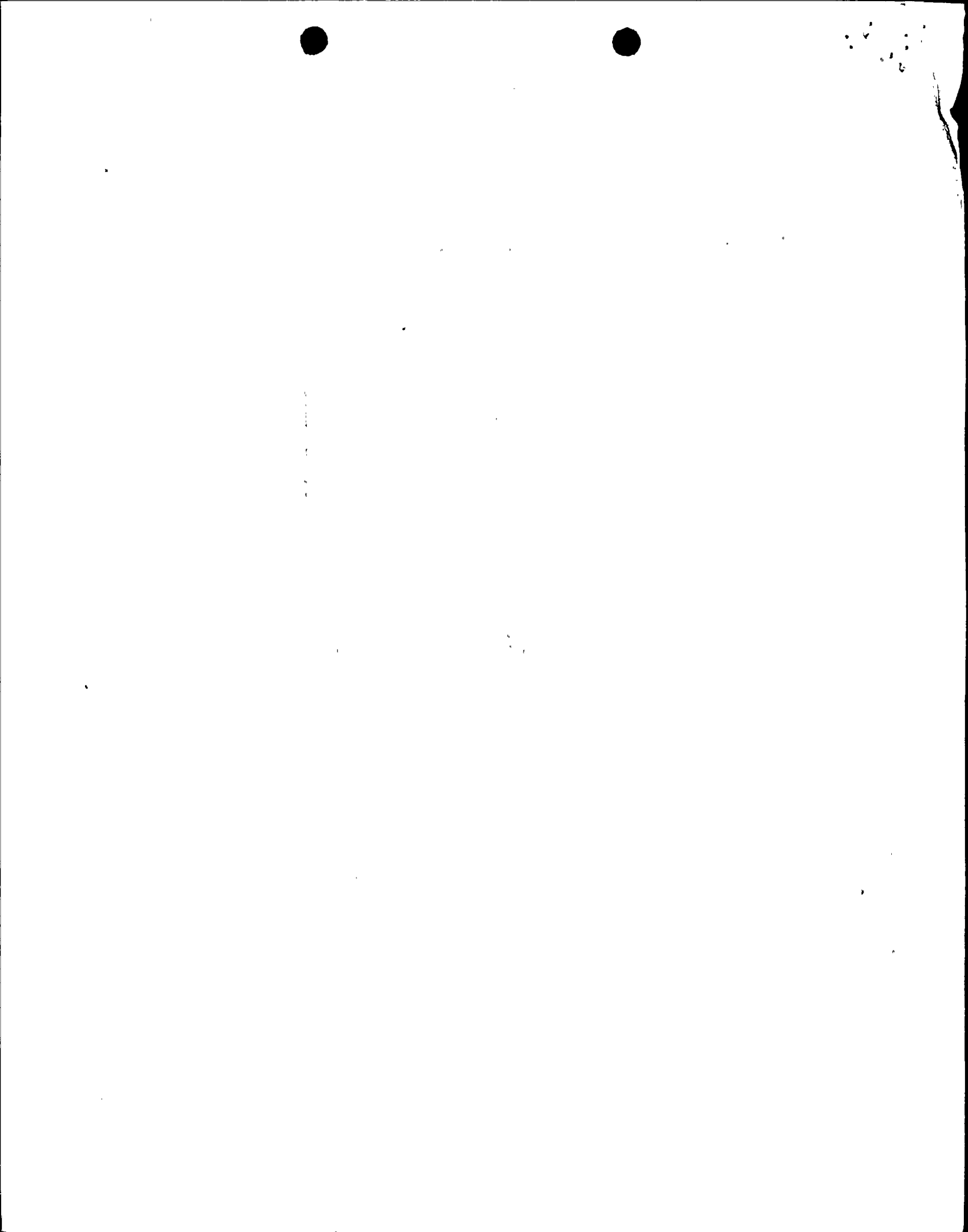
CONTRACT 213 DESIGN DRAWINGS

NO.	DESCRIPTION
D-1	General Arrangement and Attachments
D-2	Anchor Bolt Plan and Details
D-3	Bot. Hd., Knuckle, Inner and Outer Skirts
D-4	Erection Tower
D-5	Inner and Outer Skirt Details
D-6	Vessel Shell Details
D-7	Shell Elevation and Shell Details
D-8	Shell Rollout and Penetration Layout
D-9	Drywell Head, Flanges, Lifting Lugs and Support Feet
D-10	Shear Bars for Crane Tower, Sheaves & Hoist Anchor Plates
D-11	Detailed Penetration Info. Sheet 1 of 3
D-12	Detailed Penetration Info. Sheet 2 of 3
D-13	Penetration X-51, S.C. Access Hatch
D-14	Field Heat Fitting - Proc. Pipe Pene.
D-15	Transition, Seismic Lugs, Seal Plates
D-16	Beam Seats - EL. 455'-4"
D-17	Equipment Hatch (Pene. X-15)
D-18	Detailed Penetration Info. Sheet 3 of 3
D-22	Lower Top Head Fig., Shell and Seal Supports
D-23	Top Hd. Flange - Shop and Field Fab. Procedures
D-24	Upper Spray Header and Supports - EL. 562'-7 1/4
D-25	Upper Pipe Whip Supports and Beam Seats EL. 542-7 1/4
D-26	Beam Seats @ EL. 524-2 2/3 (Non-Radial)
D-27	Beam Seats @ E.: 524-2 3/8 (Radial)
D-21	Lower Pipe Whip Support

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213A Contract Erection Drawings (con't)

DWG. NO.	DESCRIPTION
E-123	Beam Seat Stiffening
E-124	" " "
E-129	Support Penetration X-34
E-130	" " X-63, X-49
E-131	Penetration X-118 Stiffening
E-132	Beam Seat Stiffening
E-133	Penetration Stiffening X-31, X-34, X-32, X-35
E-134	Penetration X-117 Stiffening
E-143	" X-47 "
E-148	" X-26 "
E-149	" X-47 "
E-159	Penetration Stiffening
E-160	Beam Seat Stiffening
E-169	Penetration Stiffening X-48
E-170	" " "
E-175	" " X-47, X-48
E-183	X-47, X-48, Penetration Stiffening Details
E-202 thru E-210	Weld Pad Locations/ Roll-outs



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PDM Design Drawings

Page 2

NO.	DESCRIPTION
D-28	Upper Spray Header and Support Details
D-29	Lower Pipe Whip Support Details
D-30	Beam Seats @ EL. 512'-8 (4)
D-31	Upper Pipe Whip Supports and Non-Radial Beam Seats
D-32	Jet Deflector Plates and Cover Plates at Access Lock and Equipment Hatch
D-33	Upper Seismic Stabilizer: Male and Female Assemblies
D-34	Upper Seismic Stabilizer: Male and Female Assembly Details
D-35	Upper Seismic Stabilizer: Shim and Inspection Port Details
D-36	Shell Rollout at EL. 512'-8" Beam Seats
D-37	Beam Seats at EL. 512'-8"
D-38	Equipment Hatch - Stiffener Details (Pent. X-15)
D-50	Monorail, Spray Header, Catwalk Detail - S.C.
D-51	Shell Stiffener and Catwalk @ 472'4
D-52	Platforms at EL. 472'4"
D-101	Penetration Details Nos. 31-36, 88, 86B, 87B
D-102	Penetrations X-23, 24, 66, 101
D-103	Penetrations X-86A, 87A, 25A, 25B, and 65
D-104	CRD Penetrations X-9, X-9A, X-10, X-10A
D-105	Penetrations X-64, 67, 100
D-106	Penetrations 81, 82, 83, 84, (S.C.) (Instr.)
D-107	Penetrations X-44A, 74, 76, 78, 101A, 101B, 105B (D.W.)
D-108	X-49
D-109	X-63
D-110	X-4 S.C. Flued Penetration

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PDM Design Drawings
Page 3

NO.	DESCRIPTION
D-111	X-39, X-41, X-62, X-69, X-71, X-100C, X-101C, and X-101D (D.W.)
D-112	X-38, X-40, X-42, X-61, X-70, X-104A, and X-104B (D.W.)
D-113	X-47 and X-48 (S.C.)
D-114	X-57, X-58, X-60, X-102, X-103, X-104 and X-105 (S.C.) X-59
D-115	X-26 (S.C.)
D-116	X-5,46,27A-F
D-117	X-43A, B, 44B, 75, 77, 94, and 95
D-118	X-107A and B
D-119	X-22, X-3
D-120	X-11B, 52A, 52B, 55, 100A, 100B, 105A
D-121	X-13, 90, 91, 92, 93
D-122	X-7
D-123	X-102A, 102B, X-103A-D, 104C,D, 105C,D, 106A-D
D-124	X-29, 30, 37, 54A, 54B, 72, 73, 80, 85
D-125	X-19A, 19B, and X-45
D-126	X-17A,B, and X-18A-D
D-127	X-20, and X-53
D-128	X-12A,B, & C, X-6, X-8
D-129	X-14, 21
D-130	X-2, 79
D-131	X-56, X-89A, X-89B, X-11A
D-132	X-96, X-97, X-98, X-99
D-133	X-106, X-107, X-108, X-109, X-110, X-111, X-112, X-113, X-114, X-115

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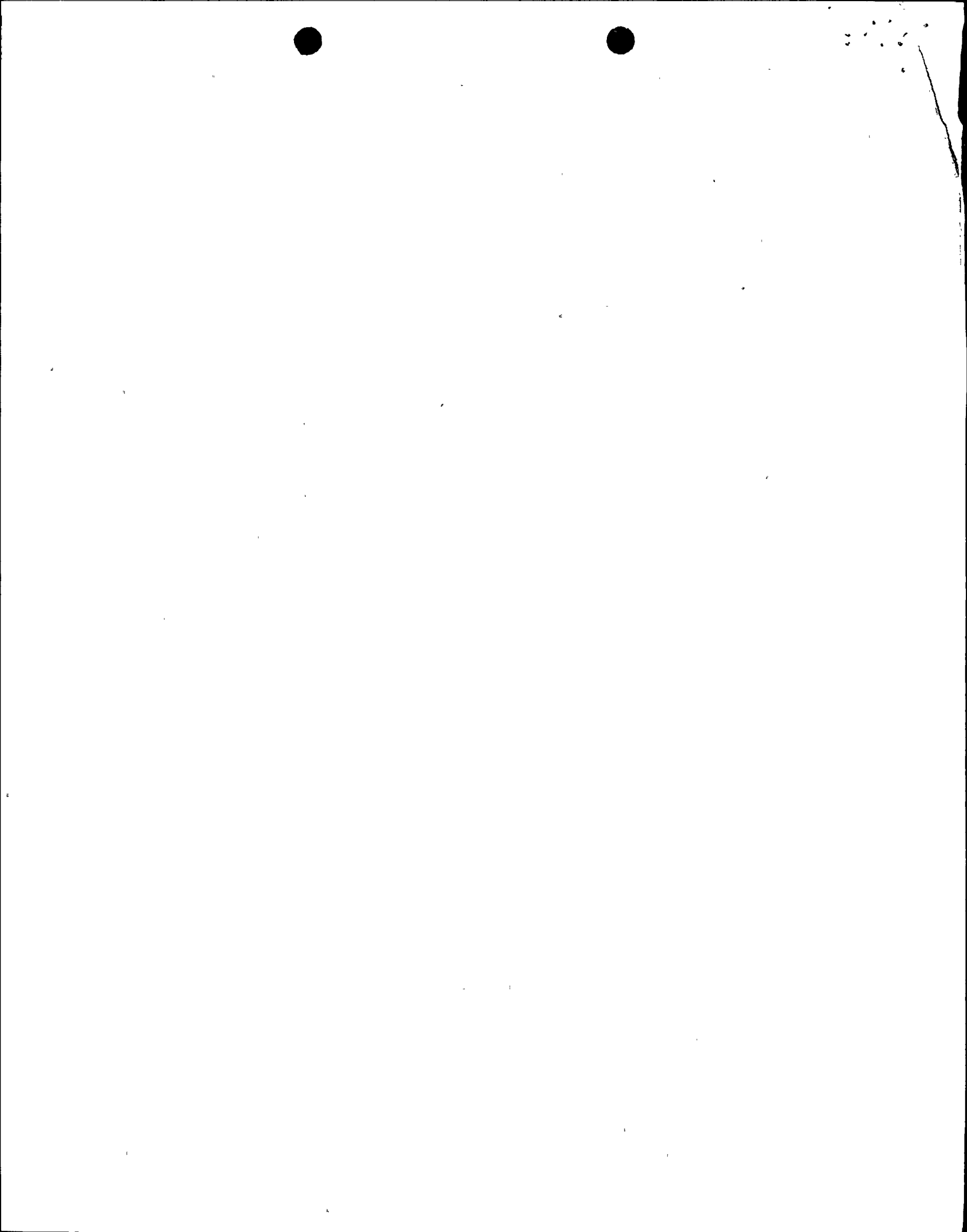
PDM Design Drawings
Page 4

NO.	DESCRIPTION
D-134	X-68, X-50
D-135	(Detail) Penetrations X-117, X-118, and X-119
D-136	Detail Penetrations X-31,32,35
D-137	Detail of Penetration X-101
D-138	Miscellaneous Penetration Details
D-139	Miscellaneous Penetration Details

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NUCLEAR PROJECT NO. 2, HANFORD, WA.
CONTRACT 213A DESIGN DRAWINGS

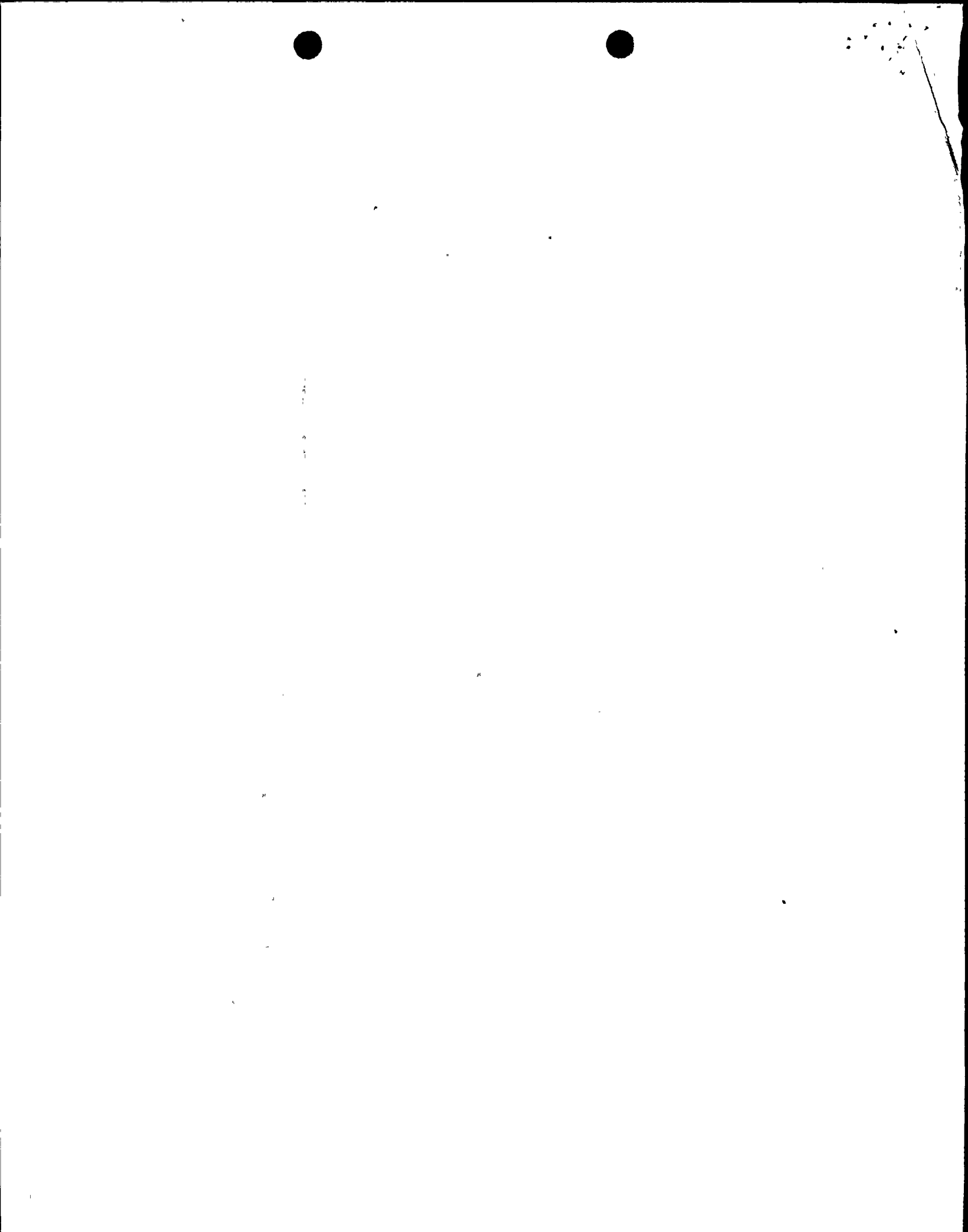
NO.	DESCRIPTION
D-60	FIX IN SUPPRESSION CHAMBER
D-60A	FIX IN SUPPRESSION CHAMBER
D-61	FIX IN SUPPRESSION CHAMBER - SHELL ROLLOUT
D-62	FIX IN SUPPRESSION CHAMBER - SHELL ROLLOUT
D-63	FIX IN SUPPRESSION CHAMBER - SHELL ROLLOUT
D-64	FIX IN SUPPRESSION CHAMBER - SHELL ROLLOUT
D-65	PENETRATION DETAILS - X-31,32,34,35,36, and BEAM SEAT
D-66	PENETRATION DETAILS - X-33,63,64,65,86B,87B and 100
D-67	PENETRATION DETAILS - X-47,48,49 and 101
D-68	PENETRATION DETAILS - X-4,26 and 101
D-69	PENETRATION DETAILS - X-117 and 118 CATWALK & ANNULAR RING
D-70	(DETAIL) PENETRATIONS -X-31,32 and 35
D-71	PENETRATION DETAILS - X-33,34, and 36
D-72	PENETRATION X-100 MODIFICATIONS
D-74	PLATFORM at EL. 472'-4"
D-75	DETAILS OF PLATFORM AT EL. 472'-4"
D-76	TEE BRACING AT PLATFORM EL 472'-4"
D-77	PIPING SUPPORTS STIFFENING
D-78	PIPE SUPPORTS STIFFENING
D-79	PIPE SUPPORTS STIFFENING SCHEDULE



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WPPSS PRIMARY CONTAINMENT VESSEL
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 CONTRACT 213A ERECTION DRAWINGS

DWG. NO.	DESCRIPTION
E-1	Additional Stiffening in Suppression Chamber
E-1-1	" " " " " "
E-2	" " " " " "
E-3	Suppression Chamber-Shell Roll Outs
E-4	" " " " " "
E-5	" " " " " "
E-6	" " " " " "
E-8	Penetration Details X-33,X-63,X-64,X-65.X-86B,X-100
E-9	" " X47,X-48,X-49 and X-101
E-10	" " X-4, X-26, X-101
E-11	" " X-117, X-118, and Pad Plates
E-13	" " X-33,X-34,X-36
E-46	Downcomer Bracing
E-47	" "
E-69	Support Penetration X-4
E-70	" " X-25A, X-25B
E-71	" " X-26
E-72	" " X-32, X-35
E-73	" " X-34,X-36,X-64,X-65
E-74	" " X-47, X-48
E-75	" " X-117, X-118
E-76	" " X-101
E-82	" " X-63, X-49
E-117	Penetration Stiffening
E-118	" "
E-122	Beam Seat Stiffening



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CONTRACT 213A DESIGN DRAWINGS (cont'd)

NO.	DESCRIPTION
D-80	PIPE SUPPORTS STIFFENING
D-81	PIPE SUPPORT AND STIFFENING
D-82	BEAM SEAT STIFFENING
D-83	BEAM SEAT STIFFENING
D-84	BEAM SEAT STIFFENING
D-85	VACUUM BREAKERS
D-86	PENETRATION X77A

