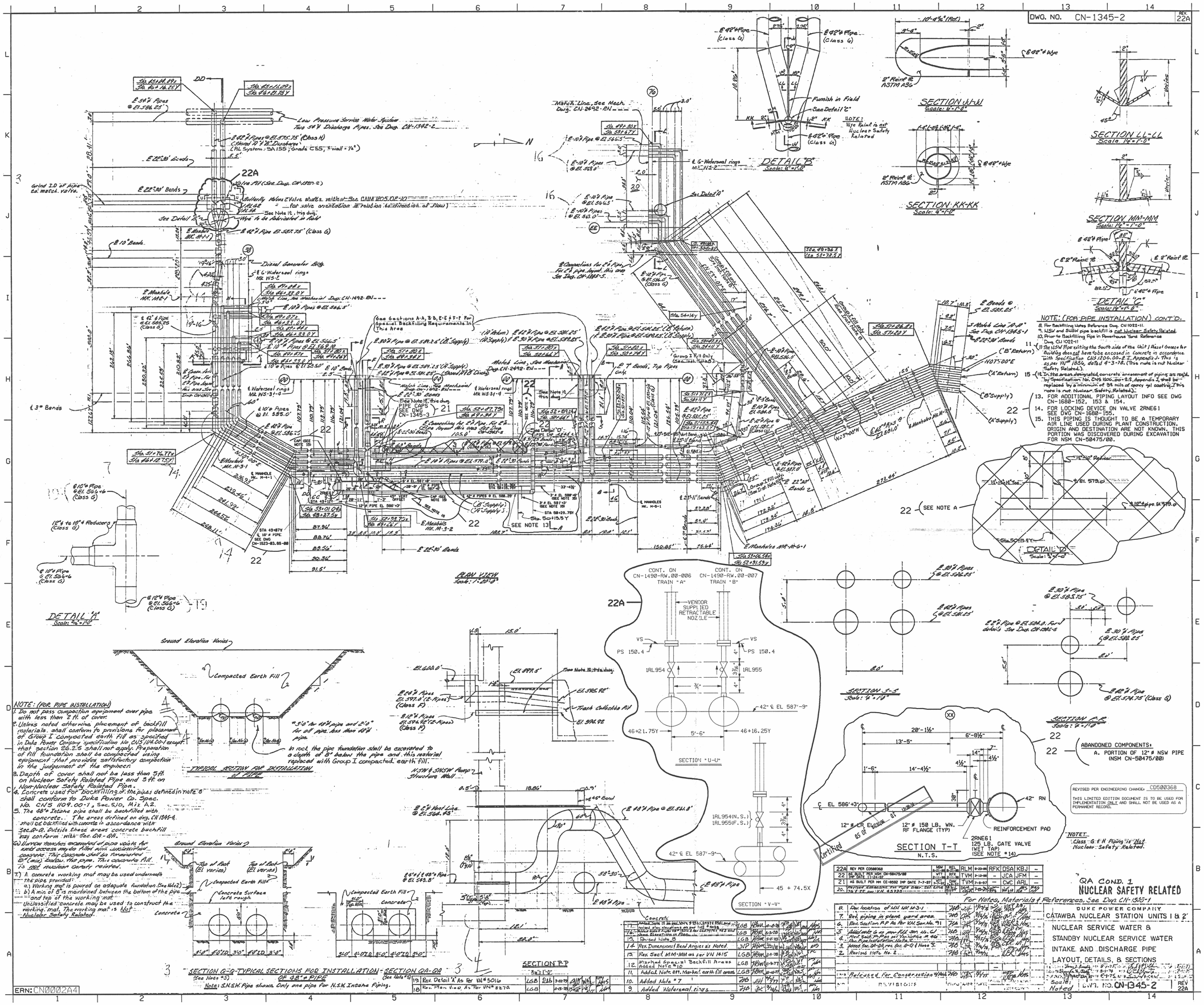
DWG. NO. CN-1345-2 REV 22A



NOTE: (FOR PIPE INSTALLATION) CONT'D:

8. For Backfilling Utility Reference Dwg. CN 1022-11.
9. NSW and SWSW pipe backfill is not Nuclear Safety Related.
10. Prior to Backfilling Pipe in Powerhouse Tank Reference Dwg. CN 1022-11
11. The 18"ø Pipe exiting the South side of the Unit 1 Blast Doors for Building does not have to be encased in concrete in accordance with Specification CNS 1304.00-E.2, Appendix J. This is as per VN# 1856, dated 4-3-78. (This note is not Nuclear Safety Related.)
12. In the areas designated, concrete assessment of piping are made by Specification No. CNS 1406.00-G.0, Appendix J, shall be replaced by a minimum of 24 mils of epoxy gel coating. This note is not Nuclear Safety Related.)
13. FOR ADDITIONAL PIPING LAYOUT INFO SEE DWG CN-1688-152, 153 & 154.
14. FOR LOCKING DEVICE ON VALVE 2RNE61 SEE DWG CN-1688-155.
15. THIS PIPING IS THOUGHT TO BE A TEMPORARY AIR LINE USED DURING PLANT CONSTRUCTION. ORIGIN AND DESTINATION ARE NOT KNOWN. THIS PORTION WAS DISCOVERED DURING EXCAVATION FOR NSM CN-50475/00.

NOTE: (FOR PIPE INSTALLATION)

1. Do not pass compaction equipment over pipe with less than 2 Ft. of cover.
2. Unless noted otherwise, placement of backfill materials shall conform to provisions for placement of Group I compacted earth fill as specified in Duke Power Company specification No CNS 1144.00-1 except that section 26.2.5 shall not apply. Preparation of fill foundation shall be compacted using equipment that provides satisfactory compaction in the judgement of the engineer.
3. Depth of cover shall not be less than 5 Ft. on Nuclear Safety Related Pipe and 3 Ft. on Non-Nuclear Safety Related Pipe.
4. Concrete used for backfilling of the pipes as defined in note 5 shall conform to Duke Power Co. Spec. No. CNS 1109.00-1, Sec. 5.10, Mix A2.
5. The 48"ø Intake pipe shall be backfilled with concrete. The areas defined on drg. CN 1345-4 shall be backfilled with concrete in accordance with Sec. D-D, Outside these areas concrete backfill may conform with Sec. D-D.
6. Where manholes encasement of pipe voids for waist access may be filled with unclassified concrete. This Concrete shall be consistent 6" (min.) below the pipe. This concrete will not be nuclear safety related.
7. A concrete working mat may be used underneath the pipe provided:
   a.) Working mat is poured on adequate foundation (See Note 2)
   b.) A min of 6" is maintained between the bottom of the pipe and top of the working mat.
   Unclassified concrete may be used to construct the working mat. The working mat is Not Nuclear Safety Related.

NOTE: (FOR PIPE INSTALLATION) CONT'D:

16. Concrete used for backfilling of the pipes as defined in note 5 shall conform to Duke Power Co. Spec. No. CNS 1109.00-1, Sec. 5.10, Mix A2.
17. The 48"ø Intake pipe shall be backfilled with concrete. The areas defined on drg. CN 1345-4 shall be backfilled with concrete in accordance with Sec. D-D, Outside these areas concrete backfill may conform with Sec. D-D.
18. Where manholes encasement of pipe voids for waist access may be filled with unclassified concrete. This Concrete shall be consistent 6" (min.) below the pipe. This concrete will not be nuclear safety related.
19. A concrete working mat may be used underneath the pipe provided:
   a.) Working mat is poured on adequate foundation (See Note 2)
   b.) A min of 6" is maintained between the bottom of the pipe and top of the working mat.
   Unclassified concrete may be used to construct the working mat. The working mat is Not Nuclear Safety Related.

REVISED PER ENGINEERING CHANGE: CD500368

THIS LIMITED EDITION DOCUMENT IS TO BE USED FOR IMPLEMENTATION ONLY AND SHALL NOT BE USED AS A PERMANENT RECORD.

NOTE: Class G & H Piping is Not Nuclear Safety Related.

QA COND. 1
NUCLEAR SAFETY RELATED

For Notes, Materials & References, See Dwg. CN-1345-1

REV	DESCRIPTION	DES	DRN	CHK	APP
22A	REV PER CO500368	NSW 6-21-88	RFL 6-23-88	RLM	6-23-88	RFK	DSA	KBJ	–
22	AS BUILT PER NSM CN-50475/00	WTJ 11-1-96	RFL 11-1-96	TVM	7-13-96	–	JCA	JFM	–
21	AS BUILT PER MM CE-0552 IMP DATE 7-7-97	CWC 7-8-97	CWC 7-8-97	TVM	7-8-97	–	CWC	ARL	–
20.	REVISED ALIGNMENT FOR PIPE RUNS - DET. LINE	DWN 7-29-93	DSN 7-29-93	WTJ	7-29-93	ANS	RMS	RMS
19.	Rev. Detail "A" As Per VN# 50116	LGB 3-22-79	DJB 3-22-79	JWH	3-22-79	ANS	RMS	RMS
18.	Rev. Plan View As Per VN# 82710	LGB 11-13-78		JWH	11-13-78	ANS	RMS	RMS
17.	Added Note 18 as per VN# 82710 & 82711 Added Plan View Elevations on Sheet 1 & 2	LGB 11-13-78		JWH	11-13-78	ANS	RMS	RMS
16.	Added Elevations in Plan	LGB 10-6-78		JWH	10-6-78	ANS	RMS	RMS
15.	Revised Note 8	LGB 9-6-78		JWH	9-6-78	ANS	RMS	RMS
14.	Rev. Dimensions of Bend Angles as Noted	WJP 8-24-78		JWH	8-24-78	ANS	RMS	RMS
13.	Rev. Sect. MM-MM as per VN 1415	LGB 7-26-78		JWH	7-26-78	ANS	RMS	RMS
12.	Marked Special Backfill Areas Added Note #10	LGB 7-7-78		JWH	7-7-78	ANS	RMS	RMS
11.	Added Note 6&7, Marked earth fill areas	LGB 6-30-78		JWH	6-30-78	ANS	RMS	RMS
10.	Added Note #7	TMS 6-1-77		JWH	6-1-77	ANS	RMS	RMS
9.	Added Waterseal rings	TMS 5-2-77		JWH	5-2-77	ANS	RMS	RMS
8.	Revised Note No. 2	TMS 4-15-77		JWH	4-15-77	ANS	RMS	RMS
7.	Rev. Section P-P As Per VN Serv. No. 91	TMS 3-14-77		JWH	3-14-77	ANS	RMS	RMS
6.	Rev. Section in plant yard areas.	TMS 3-14-77		JWH	3-14-77	ANS	RMS	RMS
5.	Added note 6 as per RFI on U. C.	TMS 3-14-77		JWH	3-14-77	ANS	RMS	RMS
4.	Rev. Back fill per Specification as per Specification Sec. D-D	TMS 3-14-77		JWH	3-14-77	ANS	RMS	RMS
3.	Added Sec. QA-QA, rev. Sec. G-G & Notes 5, 7	TMS 3-14-77		JWH	3-14-77	ANS	RMS	RMS
2.	Revised Note No. 2	TMS 3-14-77		JWH	3-14-77	ANS	RMS	RMS
1.	Released For Construction	TMS 3-14-77		JWH	3-14-77	ANS	RMS	RMS

DUKE POWER COMPANY
CATAWBA NUCLEAR STATION UNITS 1 & 2
NUCLEAR SERVICE WATER & STANDBY NUCLEAR SERVICE WATER INTAKE AND DISCHARGE PIPE LAYOUT, DETAILS, & SECTIONS

Scale: Noted | DWG. NO. CN-1345-2 | REV 22A

ERN: CN0002A4

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