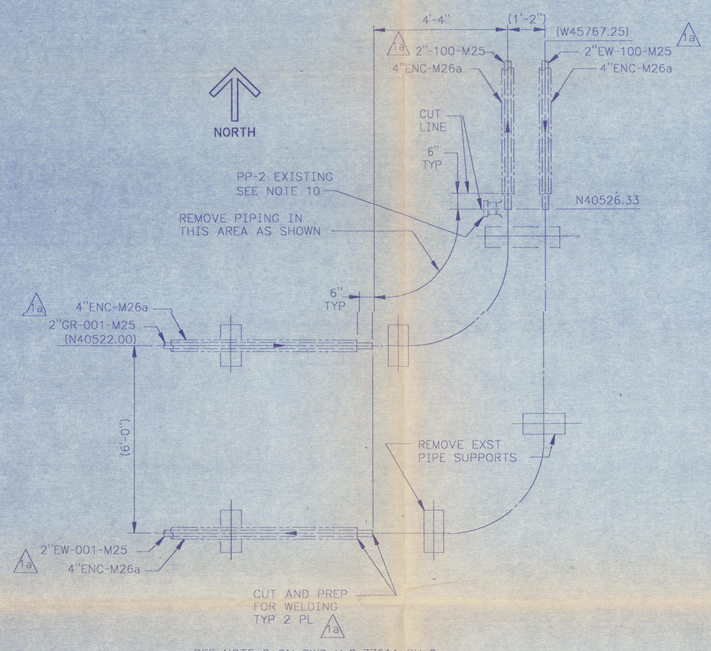
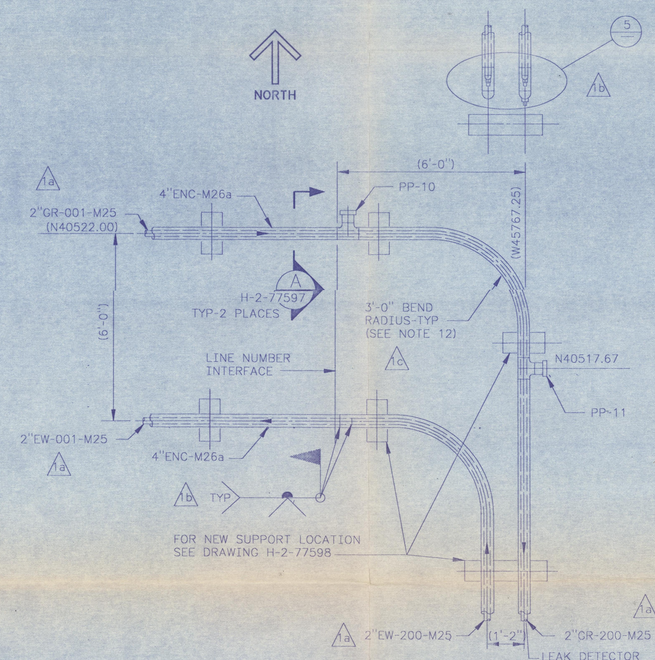


SEE NOTE 2 ON DWG H-2-77611 SH 2

DETAIL 1 H-2-77596 SH 1

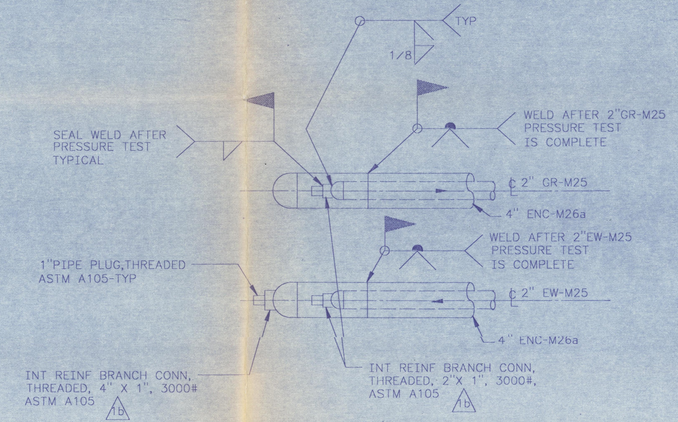
SCALE:1/2"=1'-0"



SEE NOTE 3 ON DWG H-2-77611 SH 2

DETAIL 2 H-2-77596 SH 1

SCALE:1/2"=1'-0"

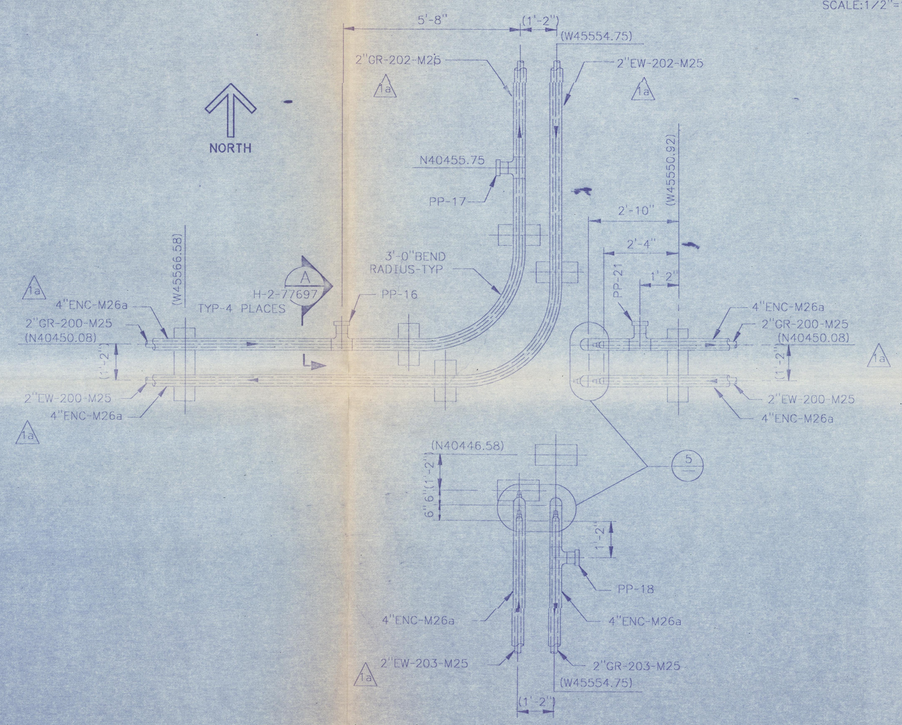


SEE NOTE 6 ON DWG H-2-77611 SH2

DETAIL 5 H-2-77596 SH1

SCALE: 1 1/2"= 1'-0"

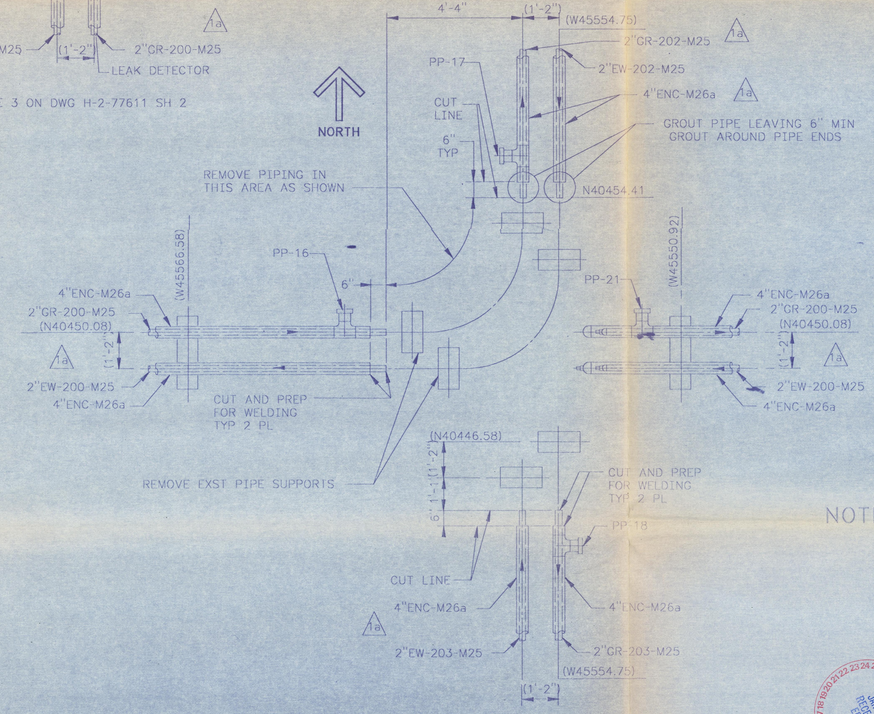
(FOR TRUE ORIENTATION SEE PIPING PLAN)



SEE NOTE 4 ON DWG H-2-77611 SH 2

DETAIL 3 H-2-77596 SH 1

SCALE:1/2"=1'-0"



SEE NOTE 5 ON DWG H-2-77611 SH2

DETAIL 4 H-2-77596

SCALE:1/2"=1'-0"

NOTES:

1. FOR GENERAL NOTES SEE DRAWING H-2-77596.

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

REVIEWING OFFICIAL/ADC: [signature]

DATE: 11-28-90

NUMBER	TITLE
H-2-77573	DRAWING LIST

DRAWING TRACEABILITY LIST

NUMBER	TITLE
H-2-77597	REFERENCES

NEXT USED ON

REV	BY	DATE	DESCRIPTION
1	RS	9-14-90	c) B-714-54 ZN E5 b) B-714-22 ZN D5 E2,3 F4 C,F6 A,B,C,D,E,F6,7,8 a) B-714-14 ZN B3 C2,4 D4 THRU B-714-61 GEN REV; INCORP ALL ECNs

REVISIONS

M-CROFILMED: BY-DATE WHC APPROVAL; BY-DATE KEH APPROVAL

COMMENT REVIEW

		DATE
WHC APPROVAL	BY SR BRIGGS	12-28-1988
PROJ ENGR	JD CLOUD	12-28-1988
QA	H. HENRIKSON	12-28-1988
APPROVED BY	WJW/ RM TIEN	7-27-1988
SAFETY	JUH/ AG MINISTER	7-21-1988
APPROVED BY	CRZ/JR COLLINS	7-21-1988
CHECKED BY	L. HALL	7-21-1988
DRAWN BY	FG RITCH	6-10-1988
DESIGNED BY	FG RITCH	6-10-1988
CAD FILE	B07761TA	
CADD	23-DEC-ACD2.9.13.NN	

IMPACT LEVEL 2 | EDT #101089

U.S. DEPARTMENT OF ENERGY
RICHLAND OPERATIONS OFFICE
KAISER ENGINEERS HANFORD COMPANY

M

PIPING PLAN AND DETAILS

PROJECT TITLE: GROUT VAULT PAIR 218-E-16-102-&103

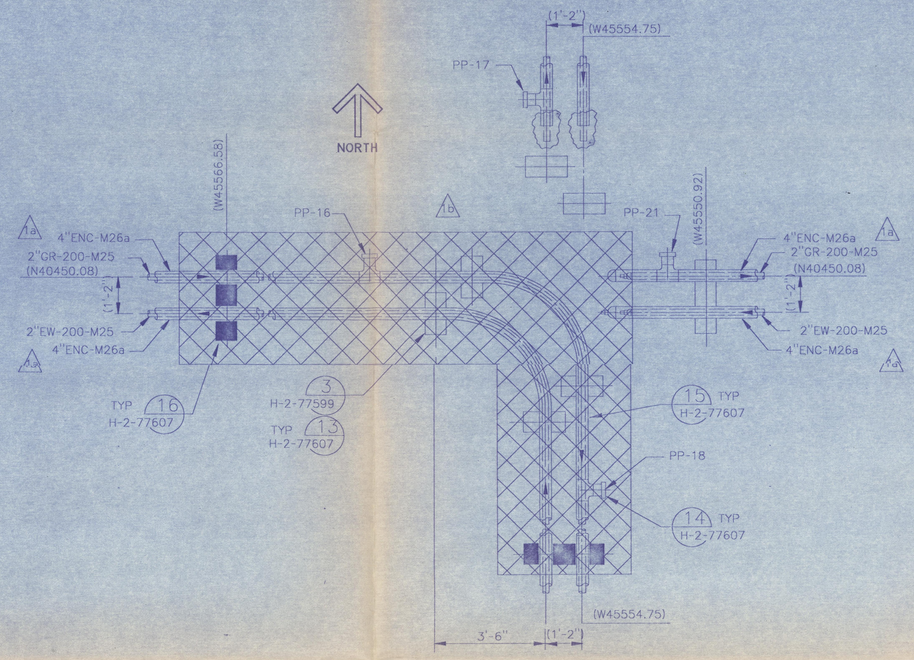
PROJ	WO	JOB
B-714	ER1060	242500

SCALE	BLDG	INDEX
SHOWN	218-E-16	D402

DRAWING NUMBER	SHEET	OF	REV
H-2-77611	1	2	1

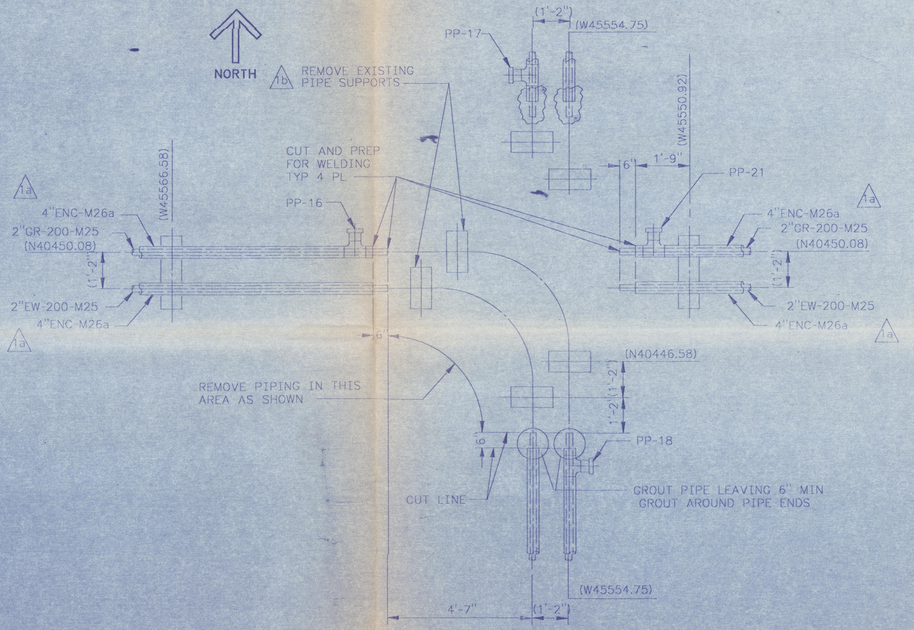
KEHCAD 1=24 1

01012457



SEE NOTE 7

DETAIL 6 H-2-77596
SCALE:1/2"=1'-0"

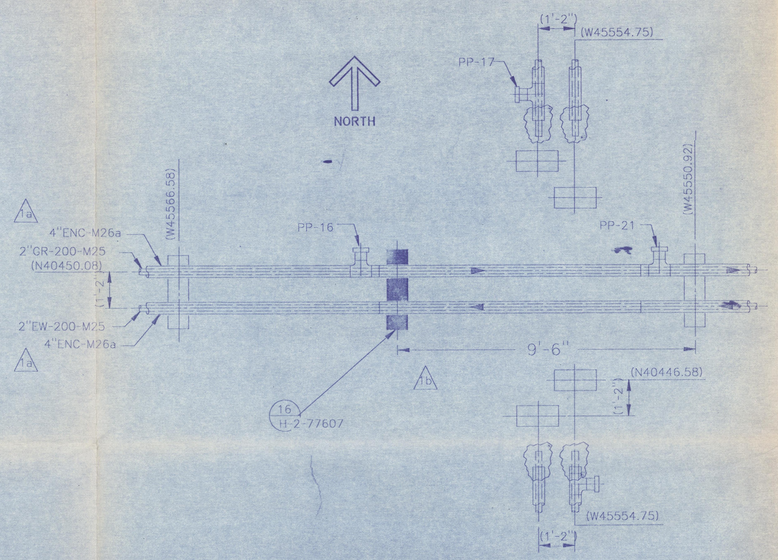


SEE NOTE 8

DETAIL 7 H-2-77596
SCALE:1/2"=1'-0"

NOTES:

1. FOR GENERAL NOTES SEE DRAWING H-2-77596.
2. THIS DETAIL SHOWS HOW THE GROUT LINE 2"GR-001-M25 AND THE EXCESS WATER LINE 2"EW-001-M25 FROM THE TRANSPORTABLE GROUT FACILITY IS DISCONNECTED FROM GROUT LINE 2"GR-100-M25 AND EXCESS WATER LINE 2"-EW-100-M25 ROUTED TO VAULT 101.
3. THIS DETAIL SHOWS HOW THE GROUT LINE 2"GR-001-M25 AND THE EXCESS WATER LINE 2"EW-001-M25 COMING FROM THE TRANSPORTABLE GROUT FACILITY ARE CONNECTED TO THE PIPING ROUTED TO VAULT 102. IT ALSO SHOWS CAPS INSTALLED ON LINES 2"GR-100-M25 & 2"EW-100-M25. THE CAPS ARE TO SEAL THESE LINES UNTIL THEY ARE REQUIRED FOR FUTURE USE.
4. THIS DETAIL SHOWS GROUT FEED LINE 2"GR-200-M25 AND EXCESS WATER LINE 2"EW-200-M25 BEING ROUTED TO VAULT 102. IT ALSO SHOWS THE CAPED EXTENTIONS GOING TO VAULT 103 AND TO FUTURE VAULTS 120 AND 121. EVERYTHING DELINEATED IN DETAIL 3 IS INCLUDED IN THE CONTRACT.
5. THIS DETAIL SHOWS WORK THAT WILL BE PERFORMED BY THE GOVERNMENT IN THE FUTURE AND IS NOT IN THE CONTRACT. THIS DETAIL SHOWS THE WORK WHICH IS REQUIRED TO DISCONNECT THE PIPING FROM VAULT 102 WHEN IT IS TO BE CLOSED. THE DETAIL SHOWS REMOVAL OF THE PIPING CONNECTING THE VAULT, IT ALSO REMOVES THE CAP ON THE GROUT LINE AND EXCESS WATER LINE GOING TO VAULT 103.
6. THIS IS A TYPICAL DETAIL SHOWING THE INSTALLATION OF CAPS ON TERMINATED ENCASED PIPE LINES.
7. THIS DETAIL SHOWS WORK THAT WILL BE PERFORMED BY THE GOVERNMENT IN THE FUTURE AND IS NOT IN CONTRACT. THE WORK INCLUDES CONNECTING THE GROUT FEED LINE 2"GR-200-M25 AND THE EXCESS WATER LINE 2"EW-200-M25 TO THE RESPECTIVE LINE ROUTED TO VAULT 103. IT ALSO SHOWS THE DISCONNECTED LINES BEING FILLED WITH CLEAN GROUT.
8. THIS DETAIL SHOWS WORK TO BE PERFORMED BY THE GOVERNMENT IN THE FUTURE AND IS NOT INCLUDED IN CONTRACT. IT SHOWS THE REMOVAL OF THE GROUT AND EXCESS WATER LINES CONNECTING VAULT 103. THESE PIPES ARE TO BE REMOVED AFTER THE VAULT HAS BEEN FILLED WITH GROUTED WASTE AND PREPARED FOR CLOSURE. IT ALSO SHOWS THE CAPS REMOVED FROM THE PIPES EXTENDING THE PIPING TO FUTURE VAULTS.
9. THIS DETAIL SHOWS WORK TO BE PERFORMED BY THE GOVERNMENT IN THE FUTURE AND IS NOT INCLUDED IN CONTRACT. THE DETAIL SHOWS THE GROUT AND EXCESS WATER LINES 2"GR-200-M25 AND 2"EW-200-M25 CONNECTED TO THE EXTENTION PIPING GOING TO FUTURE VAULT.
10. UNPLUG EXISTING TRACETEK CABLE AT EXISTING PULL POINT PP-2, AND REMOVE BACK TO PULL POINT PP-1 WHICH IS AROUND ELBOW JUST NORTH OF TGF. PULL NEW TRACETEK CABLE IN ANNULUS FROM PP-1 TO PP-10, PP-10 TO PP-11 ETC PER SPECIFICATION B-714-C2 SECTION 16400.



SEE NOTE 9

DETAIL 8 H-2-77596
SCALE:1/2"=1'-0"

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION
REVIEWING OFFICIAL/ADC: [signature]
DATE: 11-28-90

CHARLES R. ZOOK
STATE OF WASHINGTON
PROFESSIONAL ENGINEER

NUMBER	TITLE
	DRAWING TRACEABILITY LIST

NUMBER	TITLE
H-2-77573	DRAWING LIST
REFERENCES	
NEXT USED ON	

BY-DATE	BY-DATE	REV BY DATE	DESCRIPTION	REV
WHC APPROVAL	KEH APPROVAL			
		9-14 90 GD	c) B-714-55 ZN E3 b) B-714-22 ZN B3,4,7 E7 D,E,F2,3,4 E,F6,7,8 a) B-714-14 ZN B,C5,6,8 THRU B-714-61 GEN REV; INCORP ALL ECNs	RS 1

REVISIONS

COMMENT REVIEW

		DATE
WHC APPROVAL		
BY	SR BRIGGS	12-28 1988
PROJ ENGR	JD CLOUD	12-28 1988
QA	H.HENRIKSON	7-27 1988
APPROVED BY	WJM/RM TIEN	7-27 1988
SAFETY	JLH/AG MINISTER	7-27 1988
APPROVED BY	RCR/JR COLLINS	7-27 1988
CHECKED BY	L. HALL	6-10 1988
DRAWN BY	RJ LAMOUREUX	6-10 1988
DESIGNED BY	RJ LAMOUREUX	6-10 1988
CAD FILE	B077611B	
SOURCE	ZIBDEC:ACD2:9.13:NN	

IMPACT LEVEL 2 | EDT 101089

U.S. DEPARTMENT OF ENERGY
RICHLAND OPERATIONS OFFICE
KAISER ENGINEERS HANFORD COMPANY

M

PIPING PLAN AND DETAILS

PROJECT TITLE: GROUT VAULT PAIR 218-E-16-102-&103

PROJ	WO	JOB
B-714	ER1060	242500

SCALE	BLDG	INDEX
SHOWN	218-E-16	0402

DRAWING NUMBER	SHEET	OF	REV
H-2-77611	2	2	1

KEHCAD 1-24 1

8 of 8