START

0028780

Department of Energy
Richland Field Office
P.O. Box 550
Richland, Washington 99352

9302917

MAR 0 1 1993

93-RPB-130

Mr. David B. Jansen, P.E.
Hanford Project Manager
State of Washington
Department of Ecology
P.O. Box 47600
Olympia, Washington 98504-7600

Dear Mr. Jansen:

SUBMITTAL OF THE HANFORD CENTRAL WASTE COMPLEX-RADIOACTIVE MIXED WASTE STORAGE FACILITY PROJECT W-016H/W-241 DESIGN DRAWINGS, ACCEPTANCE TEST REPORTS, ENGINEERING CHANGE NOTICES, AND CONSTRUCTION SPECIFICATIONS

Transmitted herewith are thirty design drawings, three acceptance test reports, five engineering change notices, and two construction specifications associated with the Hanford Central Waste Complex-Radioactive Mixed Waste (HCWC-RMW) Storage Facility Project W-016H and Project W-241. These projects cover the installation of Buildings 2403-WB, 2403-WC, and 2403-WD and installation of the low-level radioactive metal waste storage pads, respectively, at the HCWC-RMW Storage Facility. Mr. M. N. Jaraysi, of the State of Washington Department of Ecology, requested these documents to support the review of the HCWC-RMW Storage Facility Dangerous Waste Permit Application (DOE/RL-91-17).

Should you have any questions regarding this transmittal, please contact Mr. C. E. Clark, U.S. Department of Energy, Richland Field Office, on (509) 376-9333.

Sincerely,

James D. Bauer

James D. Bauer, Program Manager
Office of Environmental Assurance,
Permits, and Policy

EAP:CEC

Enclosures:
1. Project W-016H
2. Project W-241

cc w/encls:
Administrative Record, H4-22
M. N. Jaraysi, Ecology
E. A. Wiley, Ecology

cc w/o encls:
G. W. Jackson, WHC
R. E. Lerch, WHC
T. M. Michelena, Ecology
S. M. Price, WHC

JUN 1993
RECEIVED
EDMC

9312968.0012

CORRESPONDENCE DISTRIBUTION COVERSHEET

Author	Addressee	Correspondence No.
J. D. Bauer, RL (B. M. Barnes, WHC)	D. B. Jansen, Ecology	Incoming 9302917 Xref 9350307D

Subject: SUBMITTAL OF THE HANFORD CENTRAL WASTE COMPLEX-RADIOACTIVE MIXED WASTE STORAGE FACILITY PROJECT W-016H/W-241 DESIGN DRAWINGS, ACCEPTANCE TEST REPORTS, ENGINEERING CHANGE NOTICES, AND CONSTRUCTION SPECIFICATIONS

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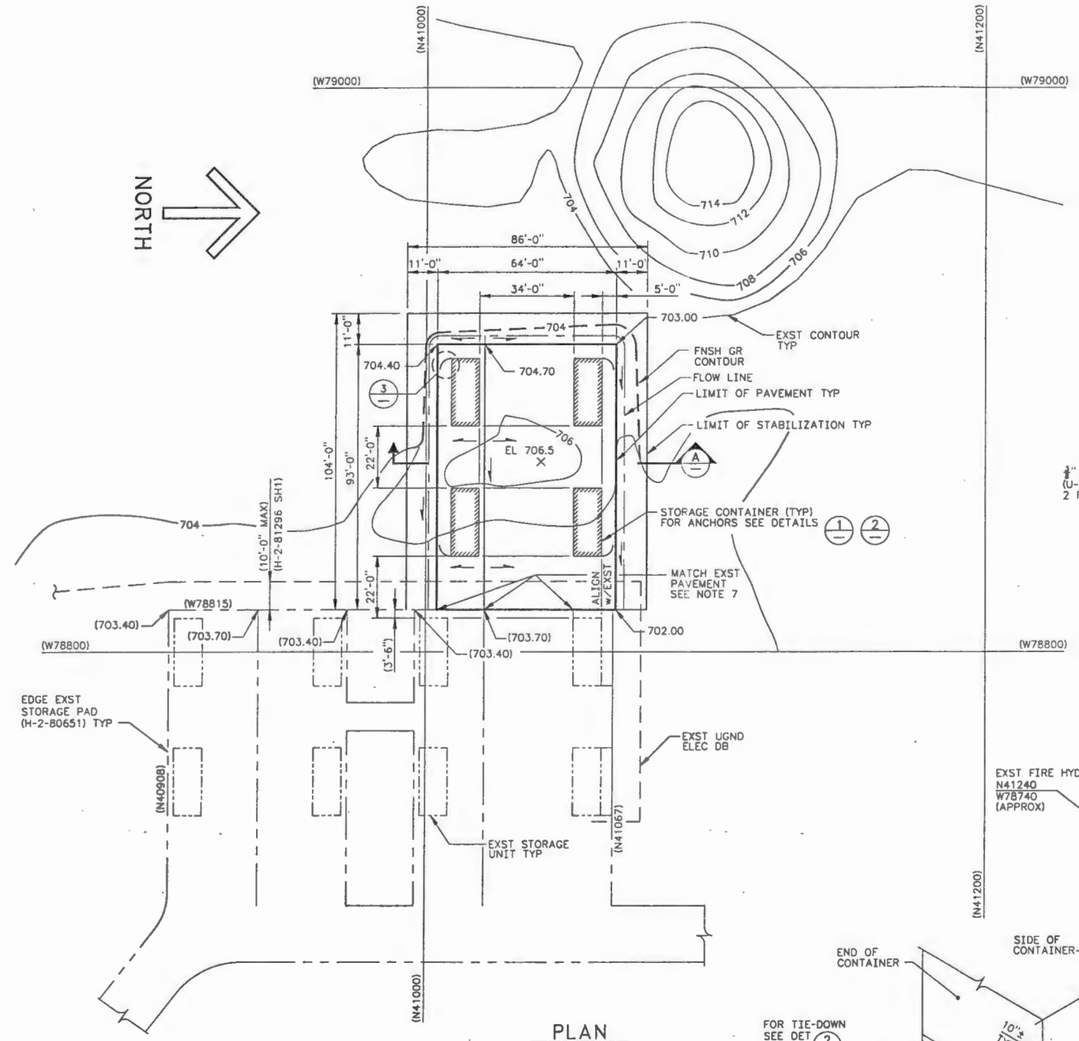
		EDMC	H6-08	
		RCRA File/GHL	H6-23	
		BMB File/LB	H6-24	

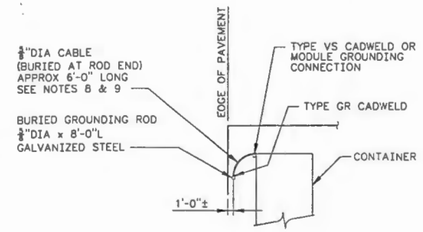
NOTE: Attachments for this letter are the same as those for letter 9350307D.

9312969.0013



PLAN

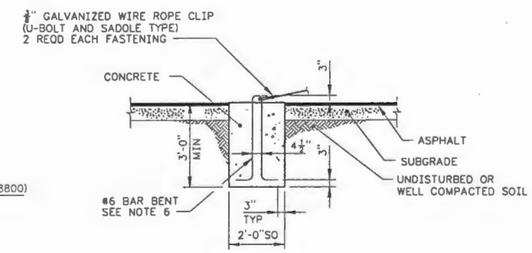
SCALE IN FEET



GROUNDING DETAIL (3)

SCALE: NONE

TYPICAL 1 PL EA CONTAINER
SEE PLAN FOR LAYOUT



TIE DOWN DETAIL (2)

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

TYPICAL 4 PL EA CONTAINER

GENERAL NOTES:

1.- SITE WORK INCLUDING CLEARING, GRUBBING, EARTHWORK SUBGRADE PREPARATION, AND SOIL STERILANT SHALL BE IN ACCORDANCE WITH SPECIFICATION KEH-5276-C1.

2.- ASPHALTIC CONCRETE PAD SHALL BE IN ACCORDANCE WITH SPECIFICATION KEH-5276-C1.

3.- CONCRETE TIE DOWN ANCHORS SHALL BE IN ACCORDANCE WITH SPECIFICATION W-241-C1.

4.- IF STORAGE CONTAINERS DO NOT HAVE TIE DOWN FITTINGS, ADD TIE DOWN FITTINGS PER DETAIL 1. PAINT PER CONSTRUCTION SPECIFICATION W-241-C1.

5.- INSTALL CABLE, TURN BUCKLE AND U-BOLTS WITH MINIMUM SLACK IN CABLES. AFTER INSTALLATION IS COMPLETED, ADJUST THE TURN BUCKLE TO TAKE OUT THE SLACK IN THE CABLE.

6.- ALIGN THE REBAR TIE-DOWN WITH THE FINAL CABLE POSITION PRIOR TO POURING CONCRETE.

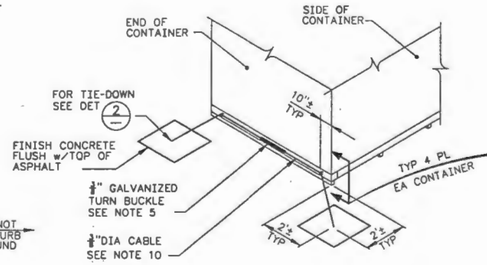
7.- CONFIRM SPOT ELEVATIONS AT EXISTING PAD TO WITHIN ±.10 FT. IF NOT WITHIN ±.1D FT, CONTACT KEH FOR DIRECTION.

8.- GROUNDING CABLE TO BE 7 STRAND GALVANIZED LOW CARBON GRADE STEEL WITH CLASS B ZINC COATING IN ACCORDANCE WITH ASTM A475.

9.- THE GROUNDING ELECTRODE CONDUCTOR SHALL BE BURIED A MINIMUM OF 18 INCHES. THE INSTALLATION OF GROUND RODS SHALL COMPLY WITH NFPA 70 PARAGRAPHS 250-83 (C) (3) AND 250-84. CONNECTION OF GROUNDING ELECTRODE CONDUCTORS TO GROUNDING ELECTRODES SHALL BE BY EXOTHERMIC WELD USING THE APPROPRIATE MOLDS.

10.- ANCHOR CABLE TO BE 7 STRAND IWRC GALVANIZED.

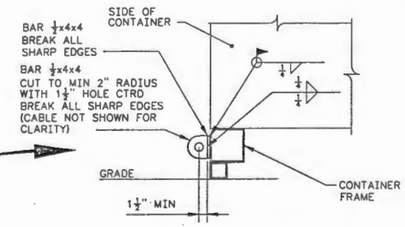
11.- PLACE SOIL STERILANT ON ALL AREAS DISTURBED BY CONSTRUCTION PER SPECIFICATION KEH-5276-C1.

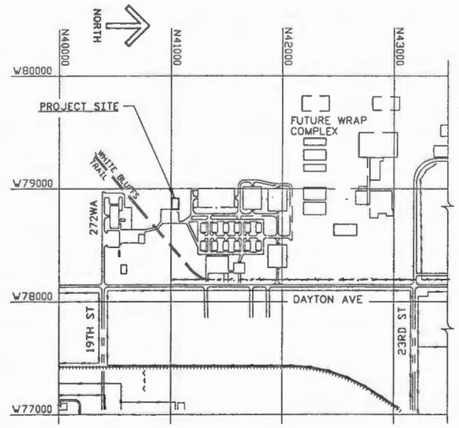


ANCHOR DETAIL (1)

SCALE: NONE

SEE NOTE 4

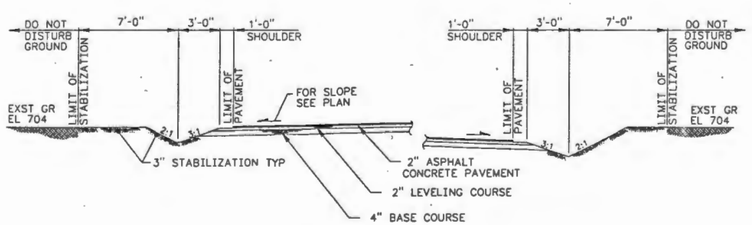




VICINITY MAP
INSIDE 200W AREA

500 0 500 1000

SCALE IN FEET



SECTION (A)

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

LEGEND:

703.00	SPOT ELEVATION - TOP OF PAVEMENT
W78800	HANFORD GRID COORDINATE
———	EXISTING CONDITION
———	NEW CONSTRUCTION

OFFICIAL RELEASE BY WHC DATE AUG 24 1992

DESIGNED DJ WHITISH	SAFETY CLASS 3	CDT 158822	
DSGN CHKR	U.S. DEPARTMENT OF ENERGY RICHLAND FIELD OFFICE KAISER ENGINEERS HANFORD COMPANY		
CHECKED	CIVIL STORAGE PAD PLAN SECTION DET & SPECS		
SAFETY	PROJECT W-241 LOW LEVEL RAACT ALK MET WASTE STORAGE		
DRVR	SIZE F	BLDG NO. 200W	INDEX NO. 0110	DWG NO. H-2-815134	REV NO. 0
DUAL CHKR	SCALE SHOWN	JOB NO. CR9808	SHEET 1 OF 1
APPD			

NUMBER	TITLE	NUMBER	TITLE
		W-241-C1	CONSTRUCTION SPECIFICATION

DRAWING TRACEABILITY LIST — REFERENCES — NEXT USED ON

REV NO.	DESCRIPTION	REV BY DATE	REIN APPROVALS	APVD FOR IMPLEMENT FOR DATE

REVISIONS

CAD FILE BB15134A CAD CODE 2J:IBM:ACD2:11.0NN

APPROVED FOR IMPLEMENTATION BY WHC FOR 8/10/92

93129688.0014

PROJECT TITLE:

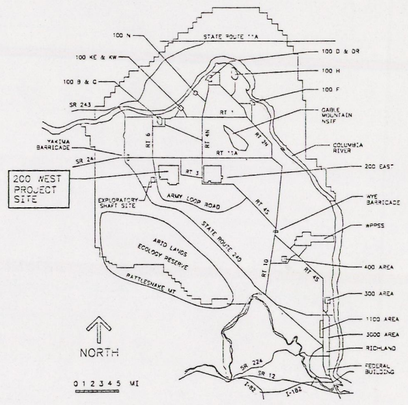
W-016H RMW STORAGE FACILITY PHASES 2, 3, & 4

FOR:

WESTINGHOUSE HANFORD COMPANY

BY:

KAISER ENGINEERS HANFORD



HANFORD AREA MAP

DRAWING LIST

DRAWING LIST

DRAWING NO.	INDEX NO.	BLDG NO.	TITLE
H-2-80894	0000	2403-WB-WC-WD	DRAWING LIST

CIVIL

DRAWING NO.	INDEX NO.	BLDG NO.	TITLE
H-2-80895 SH 1	0110	2403-WB-WC-WD	CIVIL SITE PLAN & DET
1a H-2-80895 SH 2	0301	200W	CIVIL SITE PLAN & DET 12" SW PLAN & PROFILE
H-2-80895 SH 3	0301	200W	CIVIL SITE PLAN & DET 12" SW PLAN PROFILE & DET
H-2-80896	0110	2403-WB-WC-WD	CIVIL ENLARGED SITE PLAN & DET

ARCHITECTURAL

DRAWING NO.	INDEX NO.	BLDG NO.	TITLE
H-2-80897	0800	2403-WD	ARCHITECTURAL FLOOR PLAN & SCHED
H-2-80898	0800	2403-WB-WC	ARCHITECTURAL PLAN, SECT, EL & SCHED
H-2-80899	0800	2403-WD	ARCHITECTURAL ELEVATIONS & SECT
H-2-80900	0800	2403-WB-WC-WD	ARCHITECTURAL PLAN, SECT & DETAILS

STRUCTURAL

DRAWING NO.	INDEX NO.	BLDG NO.	TITLE
H-2-80901 SH1	0900	2403-WB-WC-WD	STRL FOUNDATION PLAN & DETAILS
H-2-80901 SH2	0900	2403-WD	STRL FOUNDATION PLAN & DETAILS

FIRE PROTECTION

DRAWING NO.	INDEX NO.	BLDG NO.	TITLE
H-2-80902 SH1	7701	2403-WB	FIRE PROTECTION ALARM SYSTEM PLAN, SECTIONS & DETAILS
H-2-80902 SH2	7701	2403-WC	FIRE PROTECTION ALARM SYSTEM PLAN, SECTIONS & DETAILS
H-2-80902 SH3	7701	2403-WD	FIRE PROTECTION ALARM SYSTEM PLAN, SECTIONS & DETAILS
H-2-80903 SH1	7702	2403-WB	FIRE PROTECTION ALARM SYSTEM WIRING DIAGRAM
H-2-80903 SH2	7702	2403-WC	FIRE PROTECTION ALARM SYSTEM WIRING DIAGRAM
H-2-80903 SH3	7702	2403-WD	FIRE PROTECTION ALARM SYSTEM WIRING DIAGRAM

HEATING, VENTILATION AND AIR CONDITIONING

DRAWING NO.	INDEX NO.	BLDG NO.	TITLE
H-2-80904 SH1	8900	2403-WD	HVAC PLAN, SECT & DETAILS
H-2-80904 SH2	8900	2403-WC	HVAC PLAN, SECT & DETAILS
H-2-80904 SH3	8900	2403-WB	HVAC PLAN, SECT & DETAILS

INSTRUMENTATION

DRAWING NO.	INDEX NO.	BLDG NO.	TITLE
H-2-80905 SH1	5901	2403-WD	INSTRUMENTATION CAM ENCLOSURE
H-2-80905 SH2	5901	2403-WD	INSTRUMENTATION CAM ENCLOSURE
H-2-80906 SH1	5901/5903	2403-WD	INSTRUMENTATION CAM ALARM, INTCON DIAG & INSTR ENCL
H-2-80906 SH2	5903	2403-WD	INSTRUMENTATION CAM ALARM ELEMENTARY DIAGRAM
H-2-80906 SH3	5903	2403-WD	INSTRUMENTATION FLOW SWITCH ALARM ELEMENTARY DIAGRAM
H-2-80907 SH1	5901	2403-WC	INSTRUMENTATION CAM ENCLOSURE
H-2-80907 SH2	5901	2403-WC	INSTRUMENTATION CAM ENCLOSURE
H-2-80908 SH1	5901/5903	2403-WC	INSTRUMENTATION CAM ALARM, INTCON DIAG & INSTR ENCL
H-2-80908 SH2	5903	2403-WC	INSTRUMENTATION CAM ALARM ELEMENTARY DIAGRAM
H-2-80908 SH3	5903	2403-WC	INSTRUMENTATION FLOW SWITCH ALARM ELEMENTARY DIAGRAM
H-2-80909 SH1	5901	2403-WB	INSTRUMENTATION CAM ENCLOSURE
H-2-80909 SH2	5901	2403-WB	INSTRUMENTATION CAM ENCLOSURE
H-2-80910 SH1	5901/5903	2403-WB	INSTRUMENTATION CAM ALARM, INTCON DIAG & INSTR ENCL
H-2-80910 SH2	5903	2403-WB	INSTRUMENTATION CAM ALARM ELEMENTARY DIAGRAM
H-2-80910 SH3	5903	2403-WB	INSTRUMENTATION FLOW SWITCH ALARM ELEMENTARY DIAGRAM

ELECTRICAL

DRAWING NO.	INDEX NO.	BLDG NO.	TITLE
H-2-80917	7301/7401	2403-WD	ELECTRICAL PLAN
H-2-80918	7301/7401	2403-WB	ELECTRICAL PLAN
H-2-80919	7301/7401	2403-WC	ELECTRICAL PLAN
H-2-80920	7301	2403-WD	ELECTRICAL ELEVATIONS & DETAILS
H-2-80921	7301	2403-WB	ELECTRICAL ELEVATIONS & DETAILS
H-2-80922	7301	2403-WC	ELECTRICAL ELEVATIONS & DETAILS
H-2-80923	7201/7304	2403-WD	ELECTRICAL DIAG-PNLBD SCHEDULE
H-2-80924	7201/7304	2403-WB	ELECTRICAL DIAG-PNLBD SCHEDULE
H-2-80925	7201/7304	2403-WC	ELECTRICAL DIAG-PNLBD SCHEDULE

SPECIFICATIONS

W-016H-C3 CONSTRUCTION SPECIFICATION

ACCEPTANCE TEST PROCEDURES

WHC-SD-W016H-ATP-003	AIR SAMPLER ALARM SYSTEM PHASE 2
WHC-SD-W016H-ATP-005	AIR SAMPLER ALARM SYSTEM PHASE 3
WHC-SD-W016H-ATP-007	AIR SAMPLER ALARM SYSTEM PHASE 4
3a WHC-SD-W016H-ATP-004	FIRE ALARM SYSTEM PHASE 2
WHC-SD-W016H-ATP-006	FIRE ALARM SYSTEM PHASE 3
WHC-SD-W016H-ATP-008	FIRE ALARM SYSTEM PHASE 4

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

E.A. VICKERY
Reviewing Official/ADC
Kaiser Engineers Hanford Company
8-16-90
Date

REV NO.	DESCRIPTION	REV BY / DATE	KEH APPROVALS	APVD FOR CMPL-ENC FOR DATE
3	AS-BUILT FOR PROJ W-016H a) ECN W-016H-108 Z: B4, 5	RJD DJW 11-92	KEH RJD WHW JHW	
2	ECN W-016H-101 GENERAL REVISION PER	TEC 7-92	EAV 8/4/92 RJB 8/4/92 LDS 8/4/92 HEW 8/5/92 SCC 8/6/92 DKL	
1	a) ECN W016-56 Z D6-8	DG EEW 4-91	— KCM 5/30/91 WHM 5/30/91 HEW 5/30/91	

REVISIONS

CAD FILE B080894A CAD CODE C:IBM:ACD2:10.0:NN

DRAWN B. HOLLENBECK DATE 8-17-90
CHECKED C.CONSELMAN 8-16-90
SAFETY D. LUNDGREN 8-17-90
ENVIR R. HOLLENBECK 8-20-90
DE T.C. OTEN 8-17-90
LEAD ENG APVD A. LANGEVIN 8-16-90
APPROVED FOR IMPLEMENTATION BY H.E. WELLSFRY FOR WHC DATE 9-27-90

PHASE 2, 3 & 4
IMPACT LEVEL 3 EDT 125914

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

M DRAWING LIST

PROJECT W016H RMW STORAGE FACILITY

SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403-WB 2403-WC 2403-WD	0000	H-2-80894	3

SCALE NONE JOB NO. CR9265 SHEET 1 OF 1

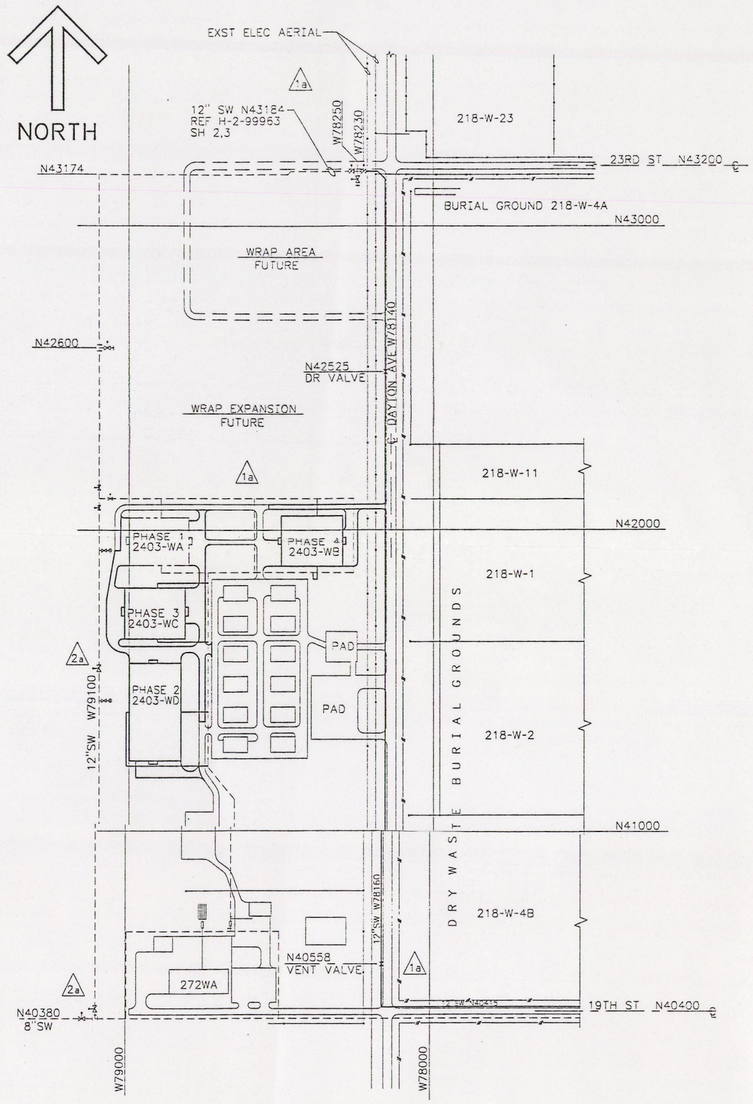
NUMBER	TITLE	NUMBER	TITLE
DRAWING TRACEABILITY LIST		NEXT USED ON	REFERENCES

KEHOAD

CAUTION
NOT COMPLETE WITHOUT
CURRENT STATUS OF OUTSTANDING
ECNS FROM DATA BASE

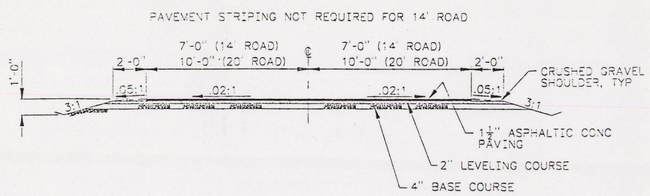
23

JAN 14 1993



SITE PLAN

SCALE: 1" = 200'



TYP ROAD SECT (A) H-2-80896
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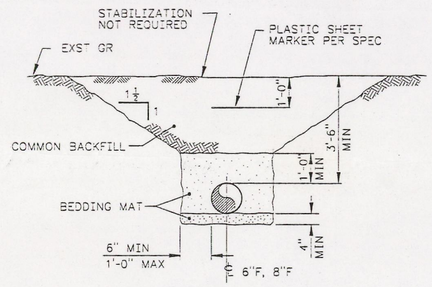

TYP SECTION (B) H-2-80896
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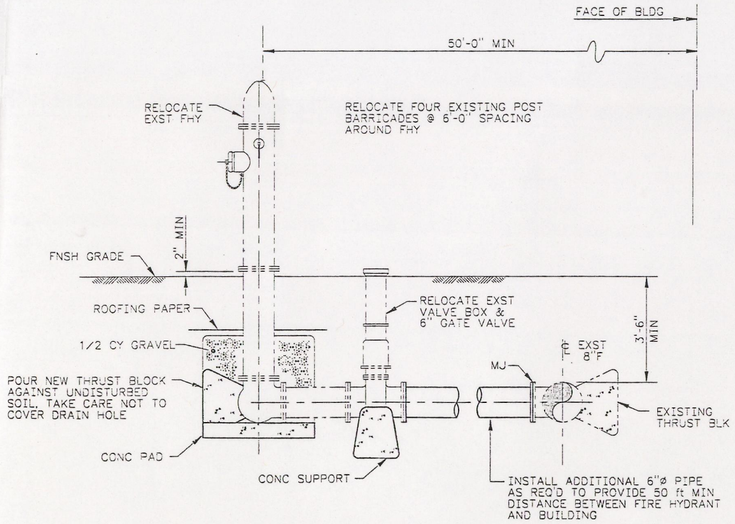

FIRE HYDRANT RELOC (C) H-2-80896
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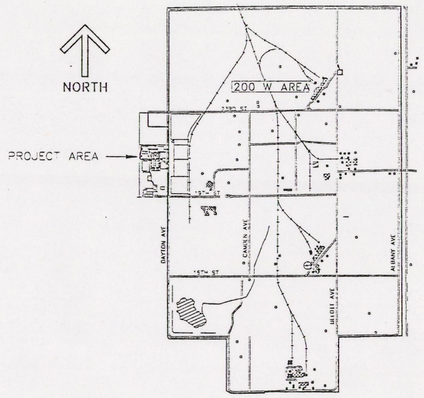


KEY MAP

LEGEND

— — — —	FUTURE WORK
	EXISTING ABOVE GROUND WORK
	NEW BUILDINGS & UTILITIES
	EXISTING UNDERGROUND UTILITIES
	EXISTING CONTOURS
710	NEW CONTOURS
RW	RAW WATER
SW	SANITARY WATER
E	ELECTRICAL
FA	FIRE ALARM
	GATE VALVE W/CI BOX
	POST INDICATOR VALVE
MJ	MECHANICAL JOINT
TR	THRUST RESTRAINT
F	FIRE WATER
	FIRE HYDRANT
CI	CAST IRON

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

REVIEWING OFFICIAL/ADC: E.A. VICHERY

DATE: 8-16-90

NUMBER	TITLE
H-2-80894	DWG LIST
H-2-99963	DWG LIST/CIVIL SITE PLAN

DRAWING TRACEABILITY LIST — REFERENCES — NEXT USED ON

REV NO.	DESCRIPTION	REV BY	DATE	KEH APPROVALS	APVD FOR IMPL/INC FOR GATE
2	AS-BUILT FOR PROJECT W-016H a)ECN W-016H-108 Z CB, DB	RWD DG 11-16	KCA	RWD	WAH	HEW
1	a) ECN W016-56 GENERAL REV	DG ECN 4-91	KCA 5/91	MJ 5/91	WAH 5/91	HEW 5/91

REVISIONS

CAD FILE B080895A — CAD CODE C:IBM:ACD2:10.0:NN

APPROVED FOR IMPLEMENTATION BY H.E. WELLSIRY FOR WHC DATE 9-27-90

DRAWN B HOLLENBECK 8-17-90
CHECKED CM CONSELMAN 8-16-90
SAFETY D LUNDGREN 8-17-90
ENVIRO HOLLENBECK 8-20-90
QE T.C. OTEN 8-17-90
LEAD ENG APVD A.S. LANGEVIN 8-17-90

PHASE 2, 3, & 4

IMPACT LEVEL 3 — EDT 125914

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

M CIVIL
SITE PLAN & DET

PROJECT W-016H RMW STORAGE FACILITY

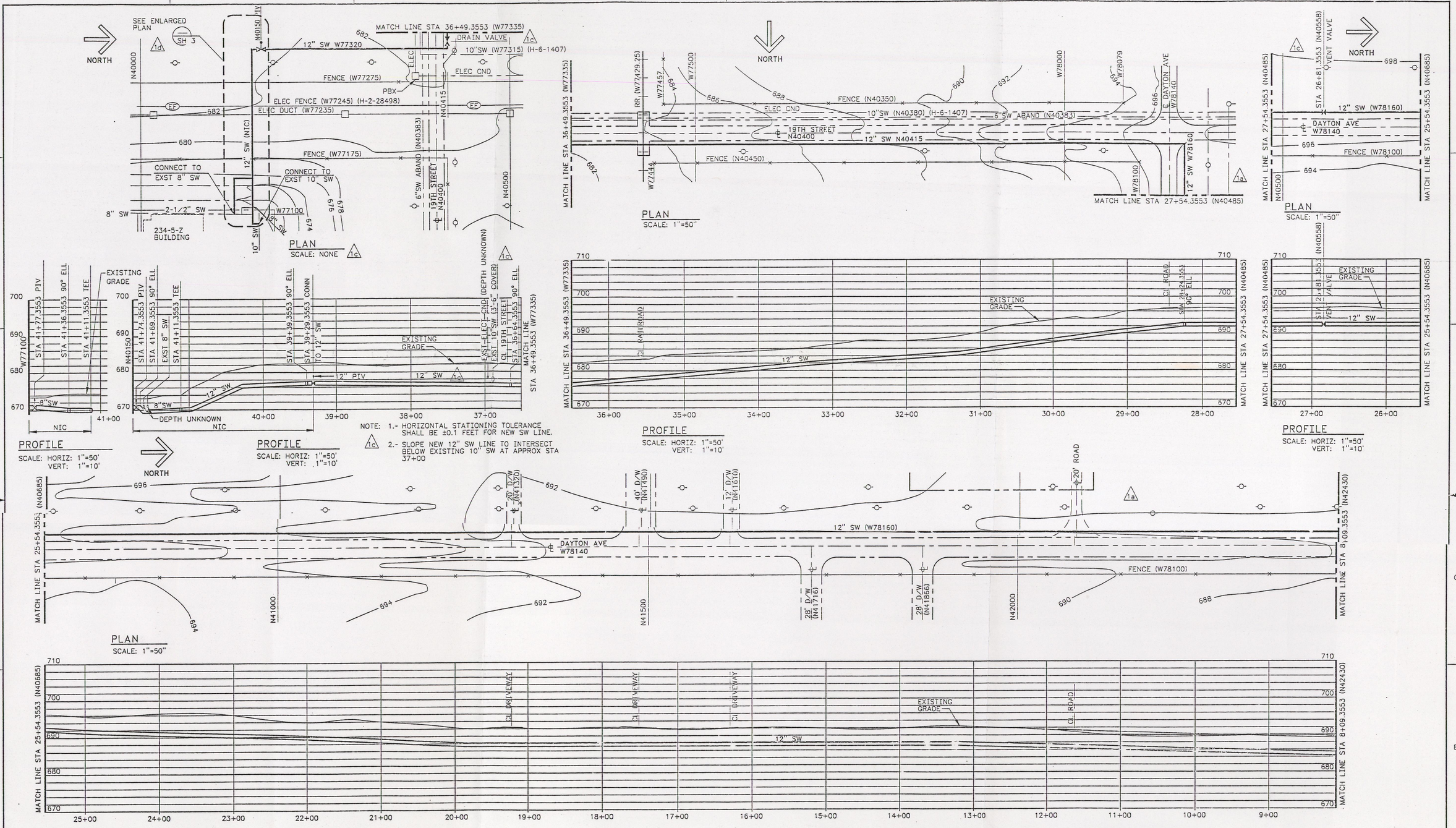
SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403-WB 2403-WC 2403-WD	0110	H-2-80895	2

SCALE SHOWN — JOB NO. CR9265 — SHEET 1 OF 3

KEHCAD

CAUTION
NOT COMPLETE WITHOUT
CURRENT STATUS OF OUTSTANDING
ECNS FROM DATA BASE (23)

JAN 14 1993



DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

REVIEWING OFFICIAL/ADC: EA VICKERY

DATE: 4-30-91

THIS SHEET ADDED TO REFLECT AS-BUILT CONDITIONS PER ECN WO16-56

SCALE IN FEET: 100 0 100 200

NUMBER	TITLE
DRAWING TRACEABILITY LIST	

NUMBER	TITLE
REFERENCES	
NEXT USED ON	

MF	REV NO.	DESCRIPTION	REV BY DATE	KEH APPROVALS	APVD FOR IMPL/INC FOR DATE
RS	1	AS-BUILT FOR PROJ W-016H d)ECN W-016H-108 & 82 Z F7,8 c)ECN W-016H-77 Z D-F6,7 b)ECN W-016H-71 GENERAL REVISION a)ECN W-015H-70 Z C1-8,E2,F1,2	DJW 11/92		

REVISIONS

CAD FILE ~~0080857~~ CAD CODE ~~2J:IBM:ACD2:10.0:NN~~

		DATE
DRAWN	M. JACOBS	3-21-90
CHECKED	G.J. ZYN	3-21-90
SAFETY	J ARCHIBALD	5-29-91
ENVIR	R HOLLENBECK	5-29-91
QE	LD SALSBERRY	5-29-91
LEAD ENG APVD	M JACOBS	5-28-91

APPROVED FOR IMPLEMENTATION BY HE WELLSFRY 5-30-91 TDR DATE

IMPACT LEVEL 3 | EDT ECN WO16-56

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

M CIVIL
SITE PLAN & DETAIL
12"SW PLAN AND PROFILE

PROJECT W-016H RMW STORAGE FACILITY

SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	200W	0301	H-2-80895	1

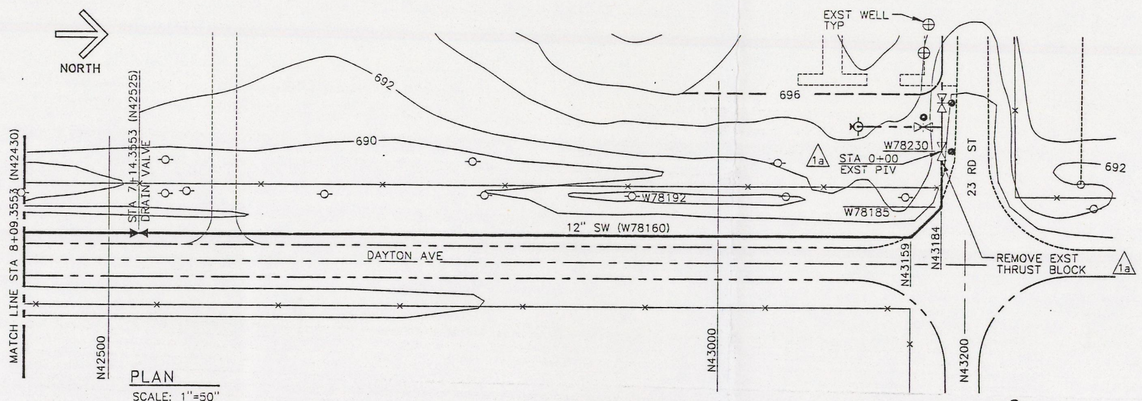
SCALE SHOWN | JOB NO. CR1066 | SHEET 2 OF 3

KEHCAD

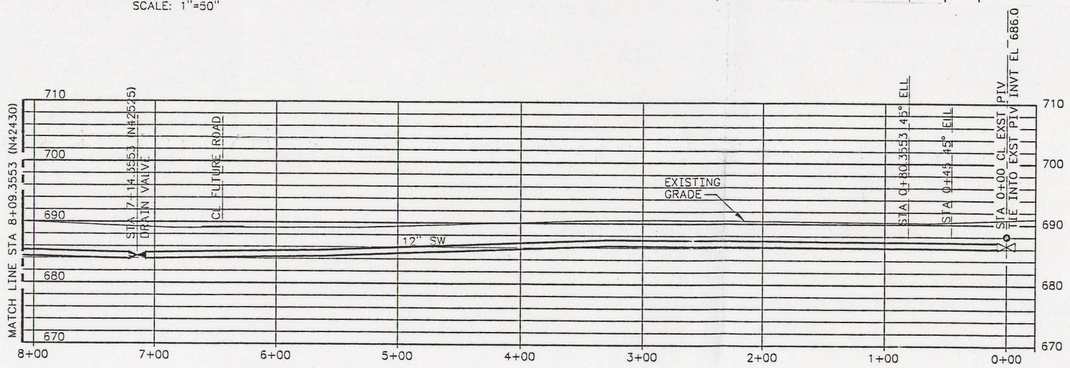
CAUTION
NOT COMPLETE WITHOUT CURRENT STATUS OF OUTSTANDING ECNS FROM DATA BASE

JAN 19 1993

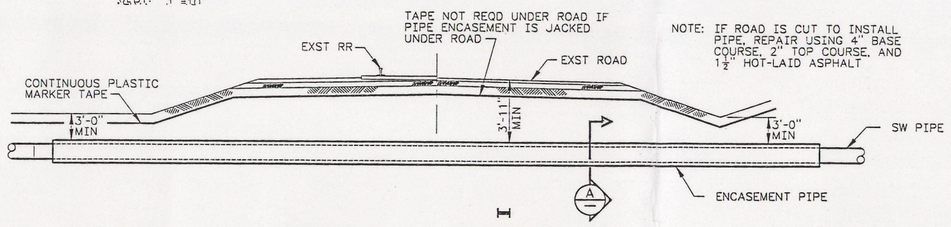
23



PLAN
SCALE: 1"=50'

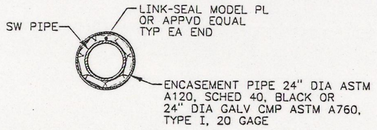


PROFILE
SCALE: HORIZ: 1"=50'
VERT: 1"=10'

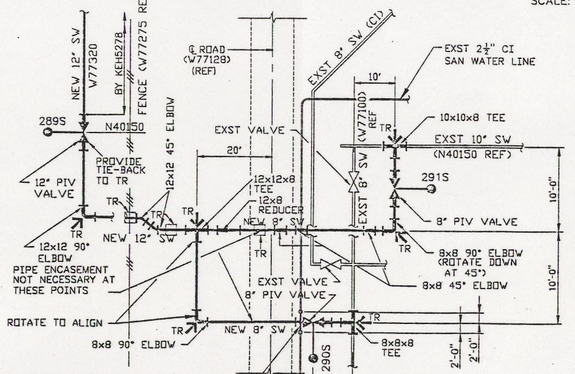


NOTE: IF ROAD IS CUT TO INSTALL PIPE, REPAIR USING 4" BASE COURSE, 2" TOP COURSE, AND 1½" HOT-LAID ASPHALT

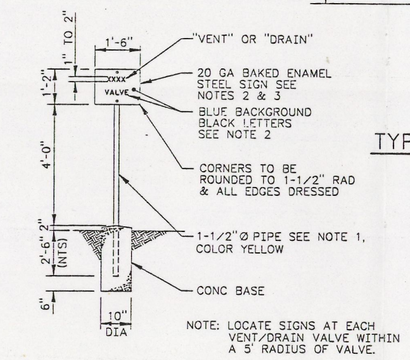
TYP PIPE ENCASEMENT DET
SCALE: NONE



SECTION A
SCALE: NONE

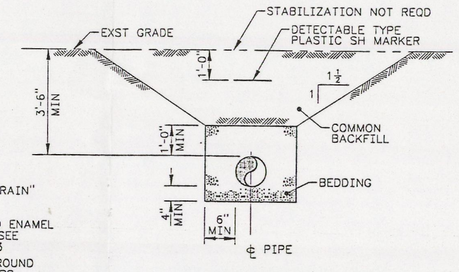


ENLARGED PLAN
NTS

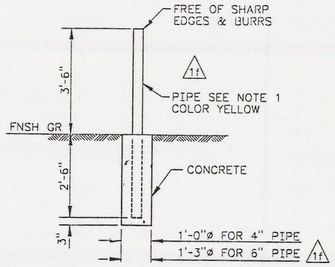


NOTE: LOCATE SIGNS AT EACH VENT/DRAIN VALVE WITHIN A 5' RADIUS OF VALVE.

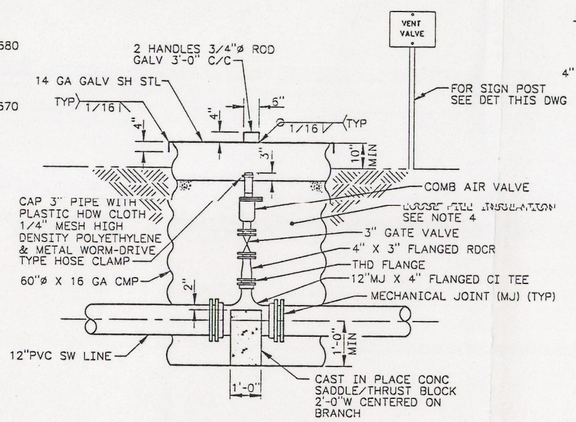
TYP SIGN POST DET
SCALE: 1/2"=1'-0"



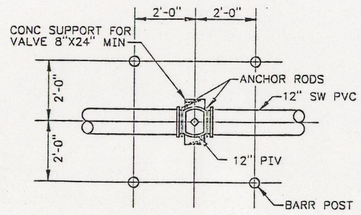
TYP PIPE TRENCH SECT
SCALE: 1/2"=1'-0"



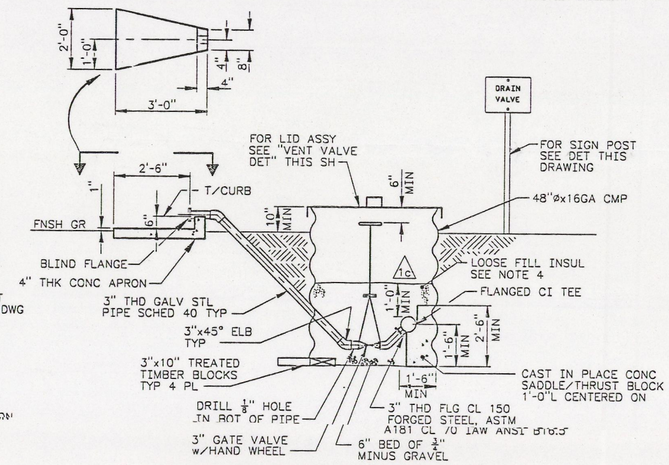
TYP BARRICADE POST DET
SCALE: 1/2"=1'-0"



TYP VENT VALVE DET
SCALE: NONE



TYP PIV BARR POST PLAN
SCALE: 1/2"=1'-0"



TYP DRAIN VALVE DET
SCALE: NONE

NOTES

1- PIPE SHALL BE BLACK STEEL, SCH 40, ASTM A53, TYPE E OR S, GRADE A OR B, OR ASTM A106 GRADE A OR B, PAINT IAW SPEC SECT 09900.

1f A. USE Ø4" PIPE FOR BARRICADES AROUND PIV'S.
B. USE Ø6" PIPE AT ROLL-UP DOORS AT EACH END OF EACH BUILDING TO PROTECT DOOR OPENING FROM VEHICLE DAMAGE. FILL PIPE FULL OF CONCRETE.

2- CHARACTERS SHALL BE CAPITAL, VERT BLOCK TYPE (GOTHIC).

3- MT SIGN USING GALV BOLTS, NUTS & WASHERS, 5/16" MIN.

4- LOOSE FILL INSULATION TO BE VERMICULITE, IAW ASTM C516-80 TYPE II.

1e 5- MINIMUM CONCRETE STRENGTH FOR THRUST BLOCKS SHALL BE 2000 PSI AT 28 DAYS.

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

REVIEWING OFFICIAL/ADC: EA VICKERY
DATE: 4-30-91

THIS SHEET ADDED TO REFLECT AS-BUILT CONDITIONS PER ECN W016-56

NUMBER	TITLE
H-2-80894	DWG LIST

DRAWING TRACEABILITY LIST — REFERENCES — NEXT USED ON

REV NO.	DESCRIPTION	REV BY / DATE	KEH APPROVALS	APVD FOR IMPL/INC FOR DATE
RS 1	AS-BUILT FOR PROJ W-016H g)ECN W-106H-108 Z A,B 7,8 f)ECN W-016H-89 Z F1,B1,2 e)ECN W-016H-87 Z B1,2 d)ECN W-016H-82 Z A,B7,8 c)ECN W-016H-75 Z D1,2 b)ECN W-016H-71 Z A,B7,8 a)ECN W-016H-65 Z E,F5	DJW 1/92		

REVISIONS — CAD FILE 8080895C — CAD CODE 2J:IBM:ACD2:10.0:NN

		DATE
DRAWN	RC CROSKREY	3-21-91
CHECKED	GJ ZYN	3-21-90
SAFETY	J ARCHIBALD	5-29-91
ENVIR	R HOLLENBECK	5-29-91
QE	LD SALSBERRY	5-29-91
LEAD ENG APVD	M JACOBS	5-28-91
PM	WA HOLSTEIN	5-30-91

APPROVED FOR IMPLEMENTATION BY HE WELLSFRY 5-30-91 FOR DATE

IMPACT LEVEL 3 — EDT ECN W016-56

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

M CIVIL
SITE PLAN & DETAIL
12" SW PLAN, PROFILE & DET

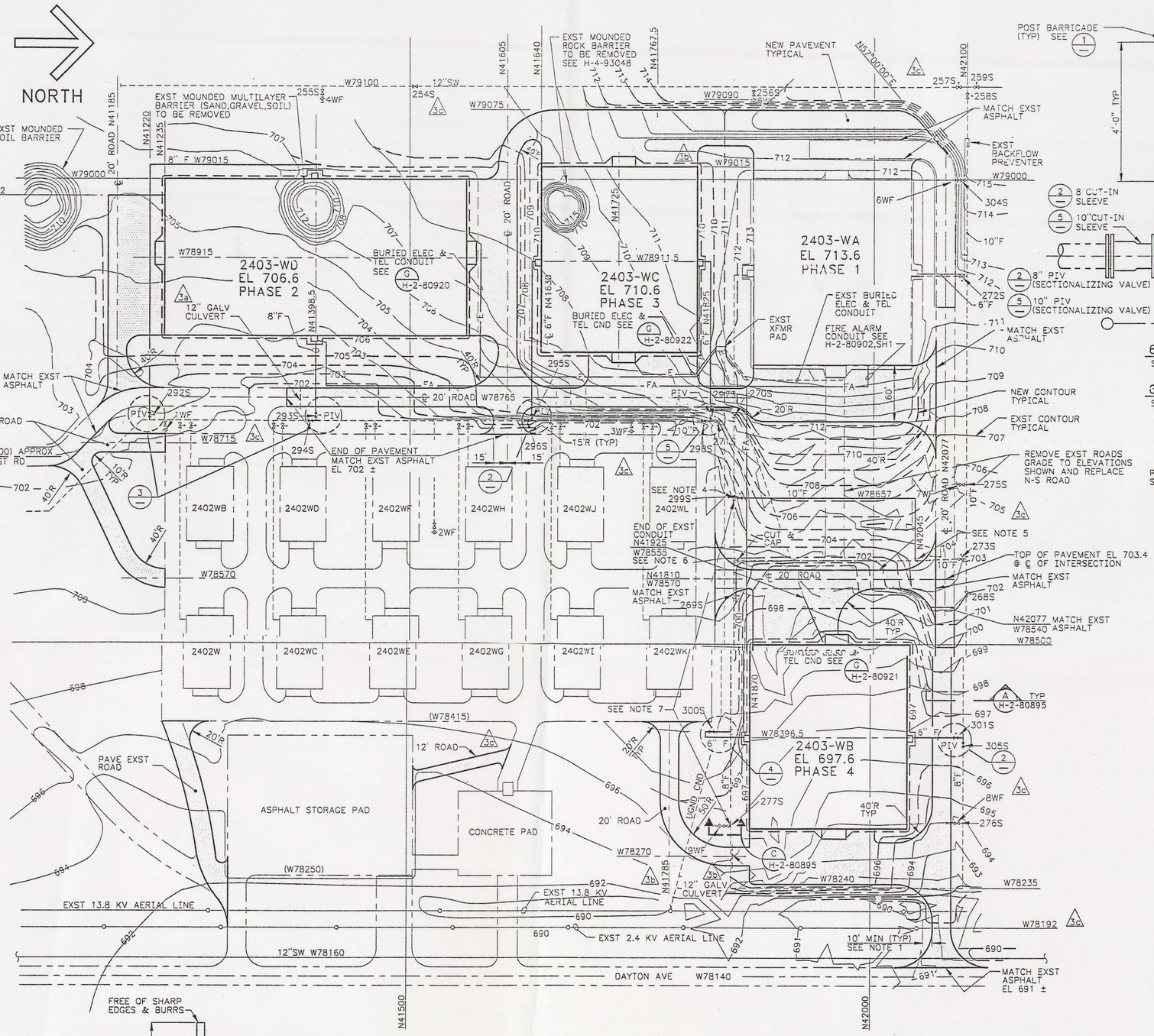
PROJECT W-016H RMW STORAGE FACILITY

SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	200W	0301	H-2-80895	1

SCALE SHOWN — JOB NO. CR1066 — SHEET 3 OF 3

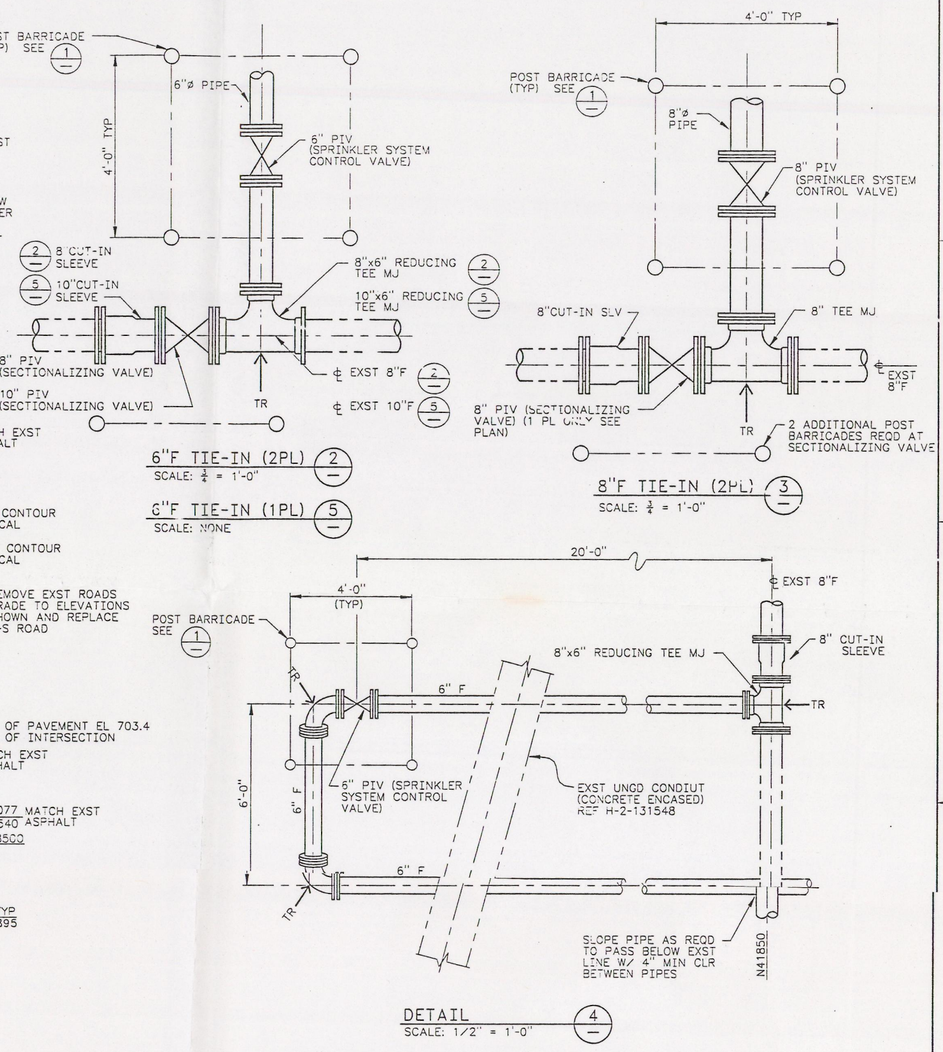
KEHCAD — plot scale 1=50

CAUTION
NOT COMPLETE WITHOUT
CURRENT STATUS OF OUTSTANDING
ECNS FROM DATA BASE 23
JAN 19 1993



ENLARGED SITE PLAN

SCALE: 1"= 50'-0"



6"F TIE-IN (2PL) 2
SCALE: ¼ = 1'-0"

6"F TIE-IN (1PL) 5
SCALE: NONE

8"F TIE-IN (2PL) 3
SCALE: ¼ = 1'-0"

DETAIL 4
SCALE: 1/2" = 1'-0"

NOTES:

1.- FOR LEGEND SEE H-2-80895

2.- FOR PAVEMENT WORK SEE TYPICAL ROAD SECTION ON H-2-80895

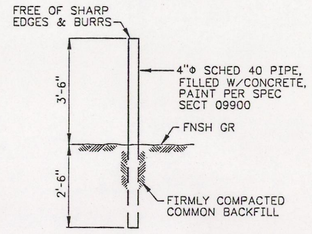
3c

3.- FOR CONNECTION OF THE EXST 10"F LINE TO NEW 10"F LINE USE 10" TAPPING TEE

4.- CUT & CONNECT NORTH PART OF EXST 10"F LINE TO NEW 10"F LINE BY 10" ELBOW

5.- RELOCATE & EXTEND EXST CONDUIT AS REQUIRED TO PROVIDE ELECTRICAL & TELECOM SERVICES

6.- LOWER EXISTING FW LINE FROM FHY TEE AT SE CORNER OF BLDG WB TO NEW 10" TEE (W78657). FIELD VERIFY LINE SIZES AND PROVIDE DOUBLE ELBOWS AS REQUIRED AT EACH END. MINIMUM COVER OVER PIPE TO BE 42" AFTER FINAL GRADING AND STABLIZATION



POST BARRICADE 1
SCALE: ½ = 1'-0"

NUMBER	TITLE
H-2-131548	ELEC ELEV & DET
H-2-99964	CIVIL ENLARGED SITE PLAN
H-2-93048	SITE CLOSURE METHODS DEVELOPMENT
H-2-80894	DWG LIST

DRAWING TRACEABILITY LIST — REFERENCES — NEXT USED ON H-2-80895

REV NO.	DESCRIPTION	REV BY / DATE	KEH APPROVALS			APVD FOR IMPL/INC FOR DATE
3	AS-BUILT FOR PROJ W-016H c) ECN W-016H-108 Z C6 B2-8 C-F4,5 D-F6,7 b) ECN W-016H-96 Z B5,F5 a) ECN W-016H-95 Z D,E7	DW 11-92				
2	a) ECN W016-55,W016-78,W016-81 W016-83 & W016-84 GENERAL REVISION	DW 12-91	RWD 12-13-91	DKL RJB 12-13-91	LDS 12-16-91	HEW 12-16-91
1	a) ECN W016-56 & W016-64 GENERAL REVISION	DW DG EGW 4-91	KCA 5-30-91	MJ 5-28-91	WAH 5-30-91	HEW 5-30-91

REVISIONS

CAD FILE B080896A — CAD CODE C:IBM:ACD2:10.0:NN

DRAWN B HOLLENBECK DATE 5-1-90
CHECKED C.M. CONSELMAN 8-16-90
SAFETY D. LUNDGREN 8-17-90
ENV'R R. HOLLENBECK 8-20-90
QET C. OTEN 8-17-90
LEAD ENG APVD A.S. LANGEVIN 8-16-90
APPROVED FOR IMPLEMENTATION BY H.E. WELLSFRY FOR WHC DATE 9-27-90

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

E.A. VICKERY
Reviewing Official/ADC
Kaiser Engineers Hanford Company
8-16-90
Date

PHASE 2,3, & 4

IMPACT LEVEL 3 — EDT 125914

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

M CIVIL
ENLARGED SITE PLAN & DET

PROJECT W-016H RMW STORAGE FACILITY

SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403-WB 2403-WC 2403-WD	0110	H-2-80896	3

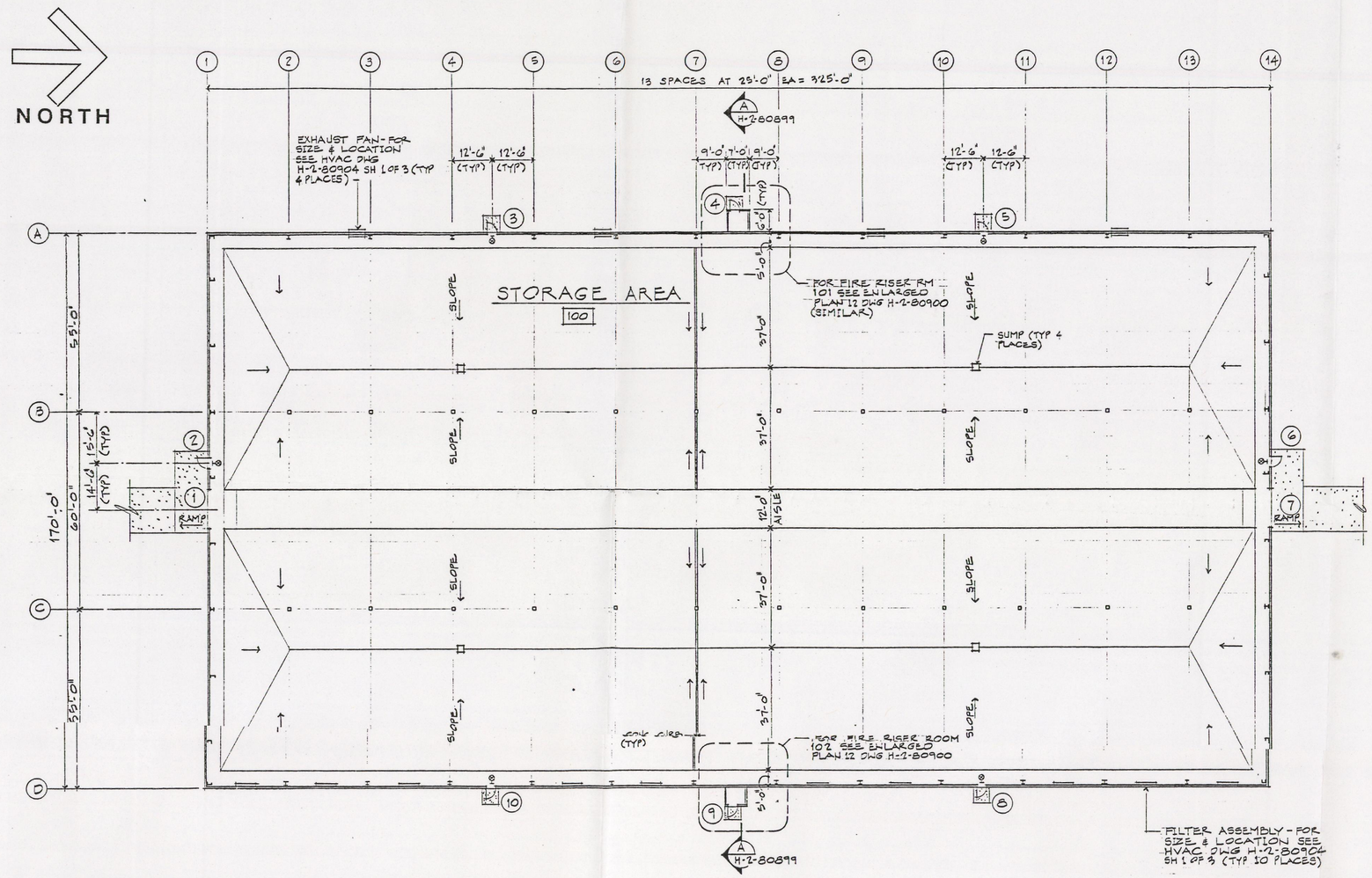
SCALE SHOWN — JOB NO. CR9265 — SHEET 1 OF 1

KEHCAD

CAUTION
NOT COMPLETE WITHOUT CURRENT STATUS OF OUTSTANDING ECNS FROM DATA BASE

JAN 14 1993

23

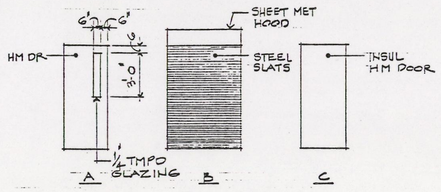


FLOOR PLAN

SCALE: 1/16" = 1'-0"

DOOR SCHEDULE (SEE NOTES 5 & 6)

NO	TYPE	LOCATION	OPNG SIZE	THKNS	FRAME HEAD	FRAME JAMB	FRAME SILL	HDW GROUP	WS	LABEL	REMARKS
1	B	—	12'-0"x18'-0"	—	11	11	11	—	YES	—	
2	A	—	3'-0"x7'-0"	1 3/4"	6SIM	7SIM	10	2	YES	—	
3	A	—	3'-0"x7'-0"	1 3/4"	6SIM	7SIM	10	1	YES	—	
4	C	—	3'-0"x7'-0"	1 3/4"	6	7	10	1	YES	—	
5	A	—	3'-0"x7'-0"	1 3/4"	6SIM	7SIM	10	1	YES	—	
6	A	—	3'-0"x7'-0"	1 3/4"	6SIM	7SIM	10	2	YES	—	
7	B	—	12'-0"x18'-0"	—	11	11	11	—	YES	—	
8	A	—	3'-0"x7'-0"	1 3/4"	6SIM	7SIM	10	1	YES	—	
9	C	—	3'-0"x7'-0"	1 3/4"	6	7	10	1	YES	—	
10	A	—	3'-0"x7'-0"	1 3/4"	6SIM	7SIM	10	1	YES	—	



DOOR TYPES

SCALE: NONE

GENERAL NOTES

1. ABBREVIATIONS USED PER ANSI Y1.1, 1972.
2. PRE-ENGINEERED METAL BUILDING BASE DESIGN - BUTLER MRF-II BUILDING.
3. METAL SIDING, ROOFING, TRIM, AND GUTTERS FOR THE FIRE RISER ROOMS SHALL BE SUPPLIED BY PRE-ENGINEERED METAL BUILDING MFG AND MATCH BUILDING SIDING, ROOFING, TRIM AND GUTTERS.
4. FOR CONCRETE FLOOR SLAB SLOPES & CONSTRUCTION JOINTS SEE STRUCTURAL DRAWING H-2-80901 SHEET 2 OF 2.
5. FOR FRAME DETAILS SEE DWG H-2-80900.
6. FOR DOOR HARDWARE GROUPS SEE SPECIFICATION SECTION 08710.
7. PROVIDE SELF-POWERED WALL MOUNTED EXIT SIGN ABOVE DOOR AT LOCATIONS MARKED ⊗.

PHASE 2

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION
Reviewing Official/ADC
Kaiser Engineers Hanford Company
8-15-90
Date

OFFICIAL RELEASE BY WHC
DATE OCT 4 1990

NUMBER	TITLE

DRAWING TRACEABILITY LIST

NUMBER	TITLE
H-2-80894	DWG LIST/CIVIL SITE PLAN

REFERENCES

NEXT USED ON

REV. NO.	DESCRIPTION	REV BY DATE	KEN APPROVALS			APVD FOR NUPL / INC FOR DATE
2	AS-BUILT FOR PROJ. W-016H a) ECN-W-016H-103 Z: A3	KMD 11/19/92	KCA	RWD	WOL	11/18/92
1	a) ECN-W016-58 Z F1,2	DB EEW 4-91	KEA 9/30/91	WOL 5-29-91	WOL 5/30/91	5-30-91

REVISIONS

CADFILE

CADCODE

APPROVED FOR IMPLEMENTATION
BY J. S. Hilliday 9-27-90
FOR W HC DATE

DRAWN W. D. UNDHOLM DATE
CHECKED E. Arnold 6/15/90
SAFETY D. Lundgren 6-19-90
ENVIR. R. L. Hillestad 6/19/90
GE. H. W. Hamilton 6-20-90
LEAD ENG. APVD. W. Hamilton 6-20-90

IMPACT LEVEL 3 | EDT 125914

U. S. DEPARTMENT OF ENERGY
Richland Operations Office
KAISER ENGINEERS HANFORD COMPANY

ARCHITECTURAL FLOOR PLAN & SCHED

PROJECT W-016H RMW STORAGE FACILITY

SIZE	BLDG. NO.	INDEX NO.	DRAWING NO.	REV. NO.
F	2402 WD	0800	H-2-80897	2

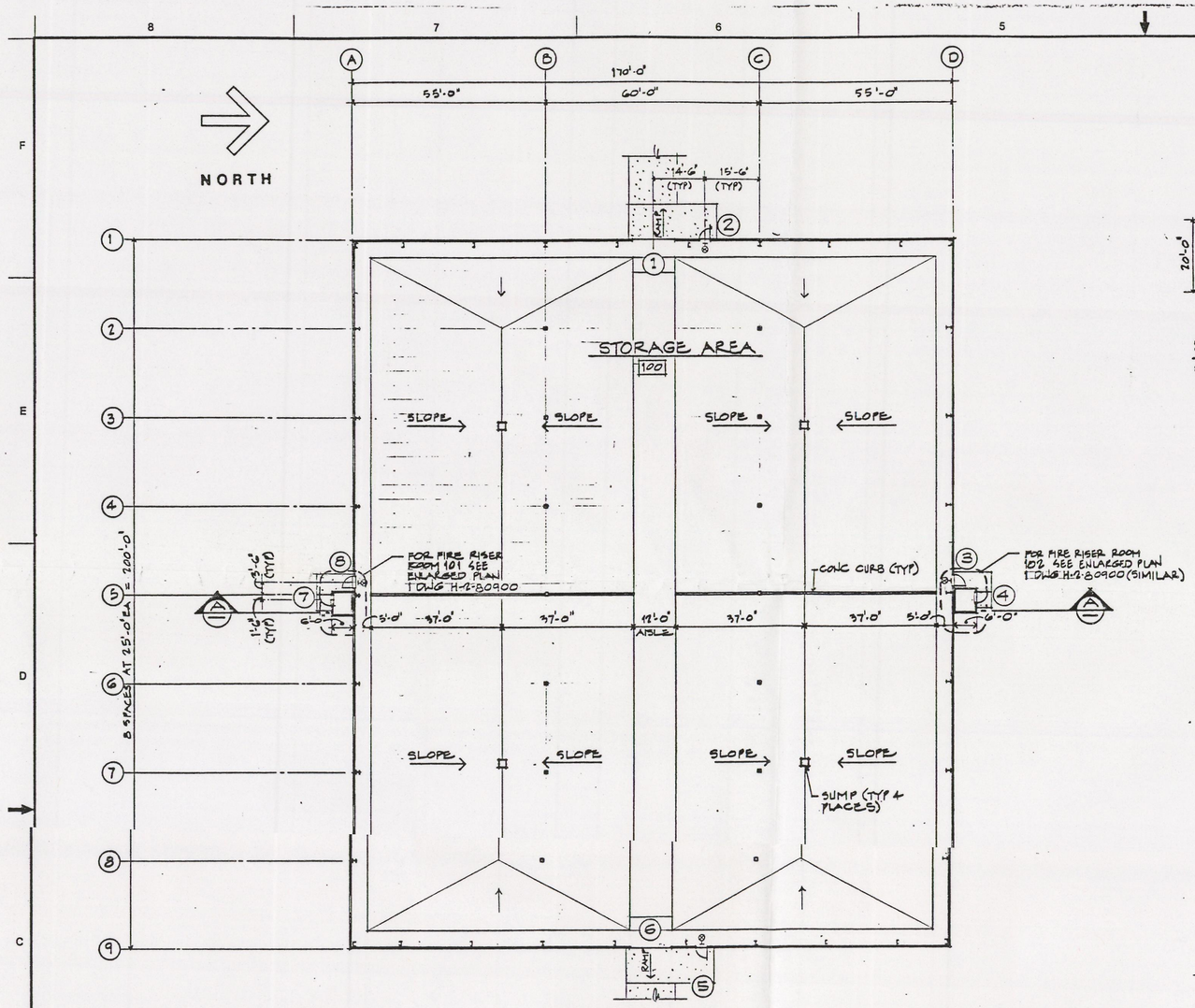
SCALE SHOWN | JOB NO. CR9265 | SHEET 1 OF 1

U.S. GOVERNMENT PRINTING OFFICE: 1990-791-150 KAISER ENGINEERS HANFORD-350 (5-90)

CAUTION
NOT COMPLETE WITHOUT
CURRENT STATUS OF OUTSTANDING
ECNS FROM DATA BASE

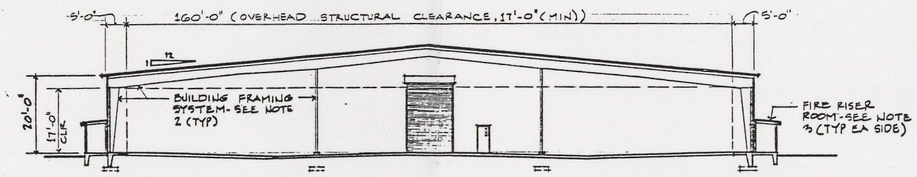
JAN 14 1993

(2)



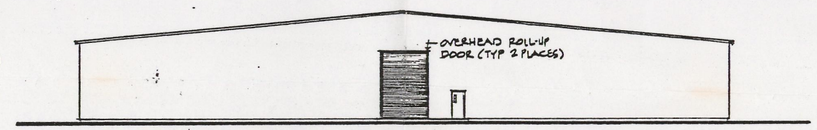
FLOOR PLAN

SCALE: 1/16" = 1'-0"



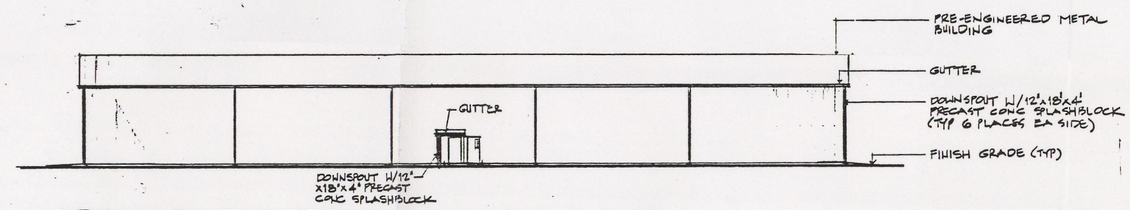
SECTION A

SCALE: 1/16" = 1'-0"



EAST ELEVATION (WEST ELEVATION SIMILAR)

SCALE: 1/16" = 1'-0"

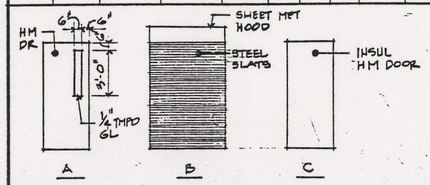


NORTH ELEVATION (SOUTH ELEVATION SIMILAR)

SCALE: 1/16" = 1'-0"

DOOR SCHEDULE (SEE NOTES 5 & 6)

NO	TYPE	LOCATION	OPNG SIZE	THKNS	FRAME HEAD	FRAME JAMB	FRAME SILL	HDW GROUP	WS	LABEL	REMARKS
1	B	—	12'-0"x12'-0"	—	11	11	11	—	YES	—	
2	A	—	3'-0"x7'-0"	1 3/4"	6 SIM	7 SIM	10	2	YES	—	
3	A	—	3'-0"x7'-0"	1 3/4"	6 SIM	7 SIM	10	1	YES	—	1a
4	C	—	9'-0"x7'-0"	1 3/4"	6	7	10	1	YES	—	1a
5	A	—	3'-0"x7'-0"	1 3/4"	6 SIM	7 SIM	10	2	YES	—	
6	B	—	12'-0"x12'-0"	—	11	11	11	—	YES	—	
7	C	—	9'-0"x7'-0"	1 3/4"	6	7	10	1	YES	—	1a
8	A	—	3'-0"x7'-0"	1 3/4"	6 SIM	7 SIM	10	1	YES	—	1a



DOOR TYPES

SCALE: NONE

8. PROVIDE SELF-POWERED WALL MOUNTED EXIT SIGN ABOVE DOOR AT LOCATIONS MARKED 8.

GENERAL NOTES

1. ABBREVIATIONS USED ARE PER ANSI Y1.1, 1972.
2. PRE-ENGINEERED METAL BUILDING BASE DESIGN - BUTLER MRF-II BUILDING.
3. METAL SIDING, ROOFING, TRIM AND GUTTERS, FOR THE FIRE RISER ROOMS, SHALL BE SUPPLIED BY PRE-ENGINEERED METAL BUILDING MFG AND MATCH BUILDING SIDING, ROOFING, TRIM AND GUTTERS.
4. FOR CONCRETE FLOOR SLAB SLOPE & CONSTRUCTION JOINTS SEE STRUCTURAL DRAWING H-2-80901 SHEET 1 OF 2.
5. FOR FRAME DETAILS SEE DWG H-80900.
6. FOR DOOR HARDWARE GROUPS SEE SPECIFICATION SECTION 08710.
7. FOR EXH FAN & FLTR ASSY SIZE & LOCATION, FOR BLDG 2403-WB SEE HVAC DWG H-2-80904 SH 3 OF 3 AND FOR BLDG 2403-WC SEE HVAC DWG H-2-80904 SH 2 OF 3.

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION
Reviewing Official/ADC
Kaiser Engineers Hanford Company
8-15-90
Date

OFFICIAL RELEASE BY WHC
DATE OCT - 4 1990

PHASE 3 & 4

NUMBER	TITLE
H-2-80894	DWG LIST/CIVIL SITE PLAN

DRAWING TRACEABILITY LIST — NEXT USED ON — REFERENCES

REV NO.	DESCRIPTION	REV BY DATE	KEH APPROVALS	APVD FOR SUPL / ENG FOR DATE
2	AS-BUILT PER FRD1. W-016H-108 Z: A3	KCA 5/30/91		
1	a) ECN W016-58 Z B7	DG EEW 4-91	KCA 5/30/91	5-30-91

CADFILE — CADCODE — REVISIONS

DRAWN W.O. LINCHOM — CHECKED — SAFETY — ENVIR — OE — LEAD ENG. APVD — KEH REF

APPROVED FOR IMPLEMENTATION BY 9-27-90 FOR WHC

IMPACT LEVEL 3 — EDT 125910

U. S. DEPARTMENT OF ENERGY
Richland Operations Office
KAISER ENGINEERS HANFORD COMPANY

ARCHITECTURAL
PLAN, SECT, EL & SCHED

PROJECT W-016H RMW STORAGE FACILITY

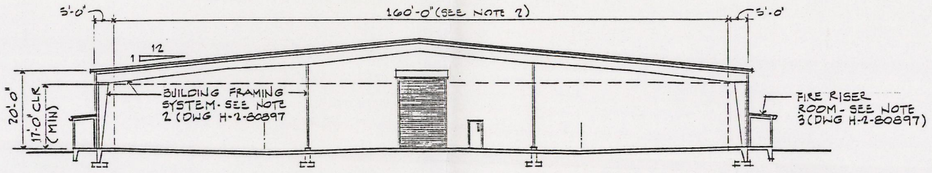
SIZE F — BLDG NO. 2403-WB 2403-WC 99800 — INDEX NO. — DRAWING NO. H-2-80898 — REV. NO. 2

SCALE SHOWN — JOB NO. CR 9265 — SHEET 1 OF 1

CAUTION
NOT COMPLETE WITHOUT
CURRENT STATUS OF OUTSTANDING
ECNS FROM DATA BASE
JAN 14 1993

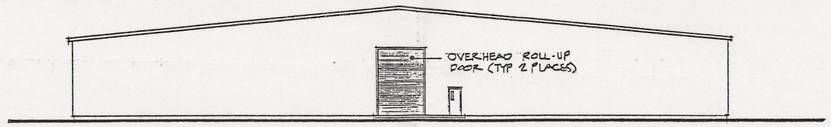
NOTES

1. SEE GENERAL NOTES ON DWG H-2-80897.
2. OVERHEAD STRUCTURAL CLEARANCE, 17'-0" (MIN).



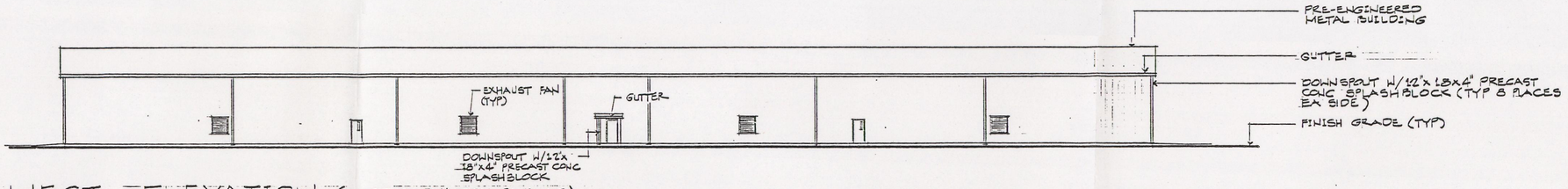
SECTION (A H-2-80897)

SCALE: 1/16" = 1'-0"



NORTH ELEVATION (SOUTH ELEVATION SIMILAR)

SCALE: 1/16" = 1'-0"



WEST ELEVATION (EAST ELEVATION SIMILAR)

SCALE: 1/16" = 1'-0"

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

Reviewing Official/ADC
Kaiser Engineers Hanford Company

8-15-90
Date

OFFICIAL RELEASE BY WHC
DATE OCT -4 1990

PHASE 2

NUMBER	TITLE	NUMBER	TITLE
DRAWING TRACEABILITY LIST		NEXT USED ON	REFERENCES
		H-2-80894	DWG LIST / CIVIL SITE PLAN

MF	REV. NO.	DESCRIPTION	REV BY DATE	KEN APPROVALS			APVD FOR IMPL / IMC FOR DATE
	1	AS-BUILT FOR PROJ. W-016H a) ECN W-016H-108 Z: AB	KWD 10-11-0092	KCA	RWD		

REVISIONS

CADFILE | CADCODE

APPROVED FOR IMPLEMENTATION BY J G Willing 9-27-90 FOR WHC DATE

DRAWN W. D. LINDHOLM DATE
CHECKED L. Arnold 6/15/90
SAFETY D Lundgren 6-19-90
ENVIR. R K Hallbeck 6/19/90
QE H Williamson 6-20-90
LEAD ENG. APVD A Smith 6-20-90

IMPACT LEVEL 3 | EDT / 25911

U. S. DEPARTMENT OF ENERGY
Richland Operations Office
KAISER ENGINEERS HANFORD COMPANY

ARCHITECTURAL ELEVATIONS & SECT

PROJECT W-016H RMW STORAGE FACILITY

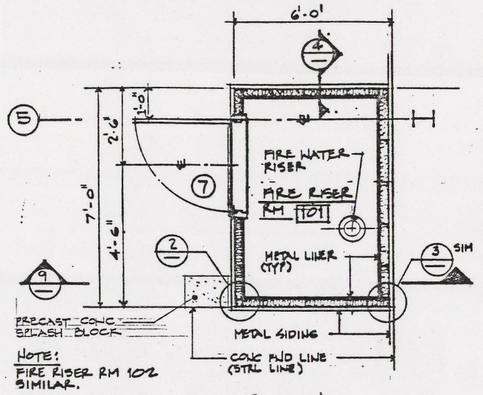
SIZE	BLDG. NO.	INDEX NO.	DRAWING NO.	REV. NO.
F	2403 WO	0800	H-2-80899	1

SCALE SHOWN | JOB NO. CR9263 | SHEET 1 OF 1

U. S. GOVERNMENT PRINTING OFFICE: 1990-791-350
KAISER ENGINEERS HANFORD: 1990-28-2(R)

CAUTION
NOT COMPLETE WITHOUT
CURRENT STATUS OF OUTSTANDING
ECNS FROM DATA BASE
JAN 14 1993

23

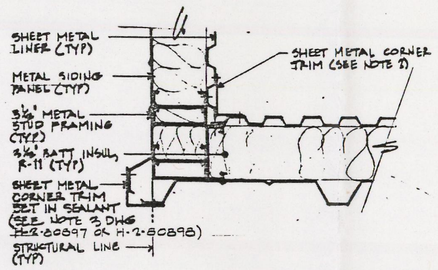


NOTE: FIRE RISER RM 102 SIMILAR.

ENLARGED PLAN (1)

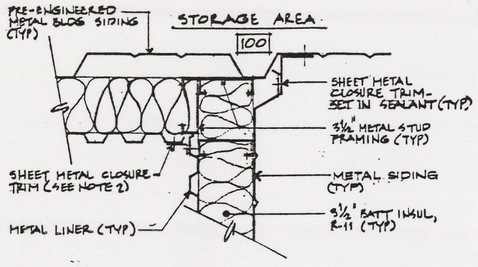
SCALE: 1/2"=1'-0"

H-2-80898



EXTERIOR CORNER DETAIL (2)

SCALE: 3"=1'-0"



CORNER DETAIL (3)

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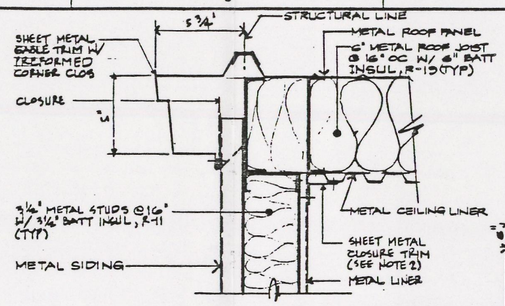

GABLE TRIM DETAIL (4)

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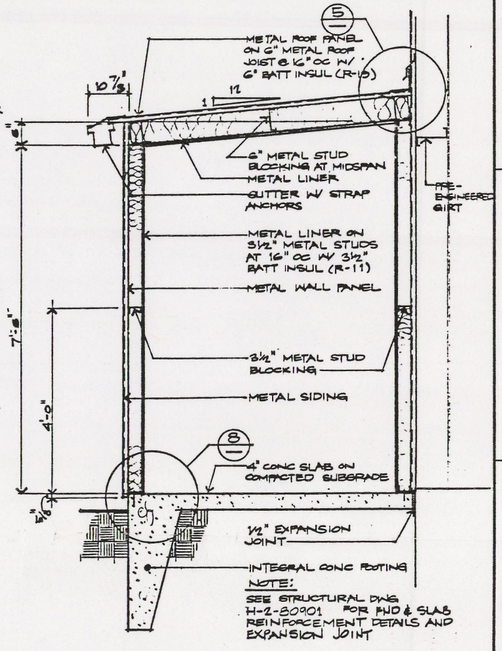
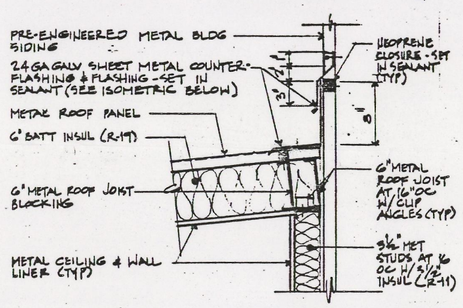


NOTE: SEE STRUCTURAL DWG H-2-80901 FOR FND & SLAB REINFORCEMENT DETAILS AND EXPANSION JOINT

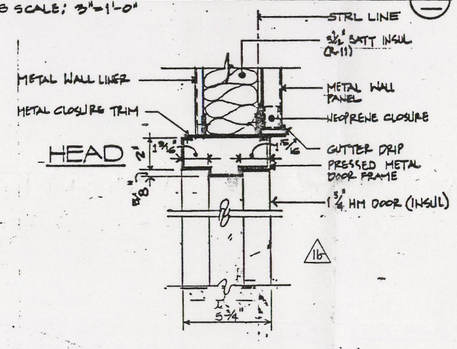
SECTION AT MET FRAMING (9)

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



ROOF FLASHING DETAIL (5)

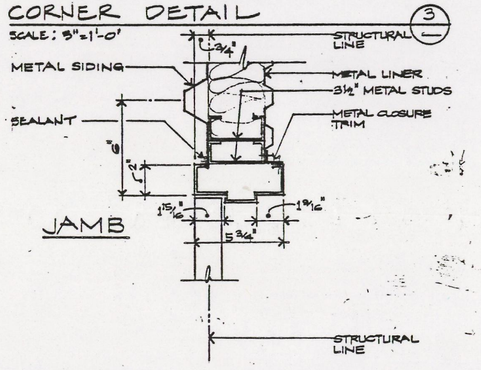
SCALE: 1 1/2"=1'-0"



DR HD AND SILL DET AT MET FR (6)

SCALE: 3"=1'-0"

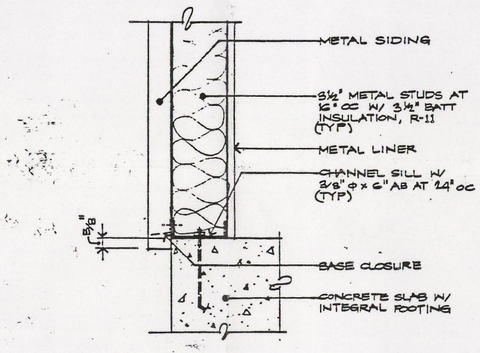
H-2-80897
H-2-80898



DOOR JAMB AT MET FRAMING (7)

SCALE: 3"=1'-0"

H-2-80897
H-2-80898



BASE DETAIL (8)

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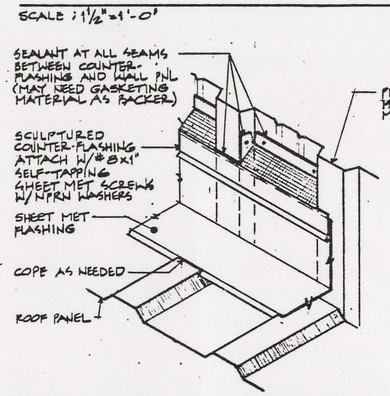
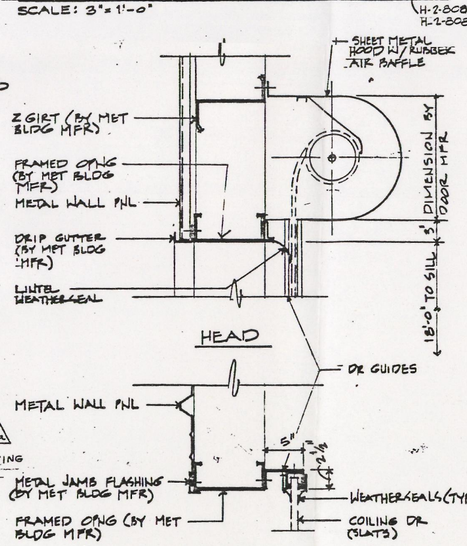


ISOMETRIC VIEW

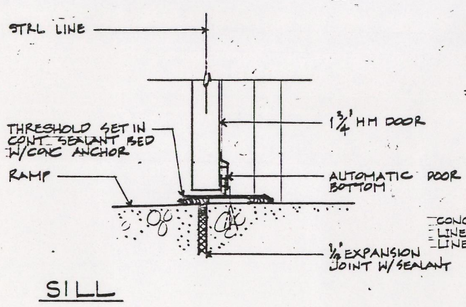
SCALE: NONE



DOOR DETAIL (11)

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

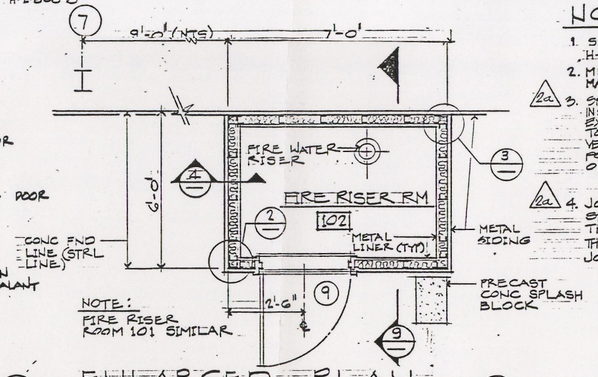
H-2-80897
H-2-80898



DOOR SILL DETAIL (10)

SCALE: 3"=1'-0

H-2-80897
H-2-80898



NOTE: FIRE RISER ROOM 101 SIMILAR

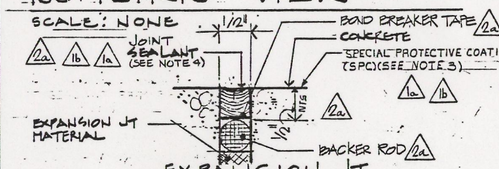
ENLARGED PLAN (12)

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

H-2-80897

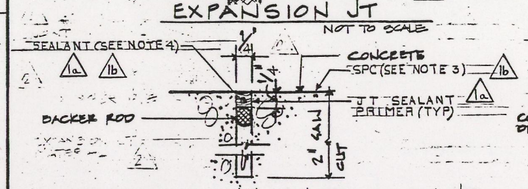
NOTES

1. SEE GENERAL NOTES ON DRAWING H-2-80897 AND H-2-80898.
2. METAL TRIM SHALL BE STANDARD AND SUPPLIED BY LINER MANUFACTURER.
3. (2a) SPECIAL PROTECTIVE COATING IS TO BE APPLIED PRIOR TO INSTALLATION OF JOINT SEALANT. SPC MATERIAL TO EXTEND THROUGH EXPANSION AND CONTRACTION JOINTS TO PROVIDE UNIFORM COATING OF THE JOINT VERTICAL SURFACES WITH CARE TAKEN NOT TO FOUL THE SPC MATERIAL IN THE BASE OF THE JOINT.
4. (2a) JOINT SEALANT IS TO BE APPLIED AFTER THE SPC HAS BEEN INSTALLED AND ACCEPTED. THE SEALANT SHALL BE AS RECOMMENDED BY THE SPC MANUFACTURER AND APPROVED BY KEH. JOINTS SHALL BE TOOLED SLIGHTLY CONCAVE.



EXPANSION JT

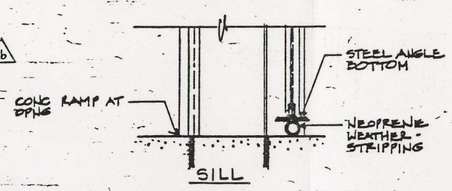
NOT TO SCALE



CONSTRUCTION/CONTRACTION JT

TYPICAL SEALANT DETAILS

SCALE: FULL



NUMBER	TITLE
H-2-80894	DWG LIST/CIVIL SITE PLAN

DRAWING TRACEABILITY LIST — NEXT USED ON — REFERENCES

REV. NO.	DESCRIPTION	REV BY DATE	KEH APPROVALS	APVD FOR BWL / WHC FOR DATE
M	AS-BUILT FOR FRO1 W-016H	RWD TB 11-11-1992	KCA RWD WHT 8/28/92	
RS 2	a) ECN-W-016-60 Z:B8,C1	MAK ADT 3/91 DG 6&W 4-91	KCA 8/30/91 WOL 5-29-91 WHT 7/30/91	2/12/92 5-30-91
M RS 1	b) ECN W016-63 Z A,B7,8:C2 a) ECN W016-58 Z A,B7,8:C1-2			

REVISIONS

CADFILE — CADCODE

PHASE 2, 3 & 4

IMPACT LEVEL 3 — EDT 125914

DRAWN W.D. LINDHOLM DATE
CHECKED R. Arnold 6/15/90
SAFETY D. Lundgren 6-19-90
ENVP R.J. Hallbeck 6/19/90
QE H.W. Wilkinson 6-20-90
LEAD ENG. APVD W.F. Schulz 6-20-90
KEH REP

U. S. DEPARTMENT OF ENERGY
Richland Operations Office
KAISER ENGINEERS HANFORD COMPANY

ARCHITECTURAL PLAN, SECT & DETAILS

PROJECT H-016H RMW STORAGE FACILITY

APPROVED FOR IMPLEMENTATION
U.S. Wolfley 9-27-90
FOR WHC

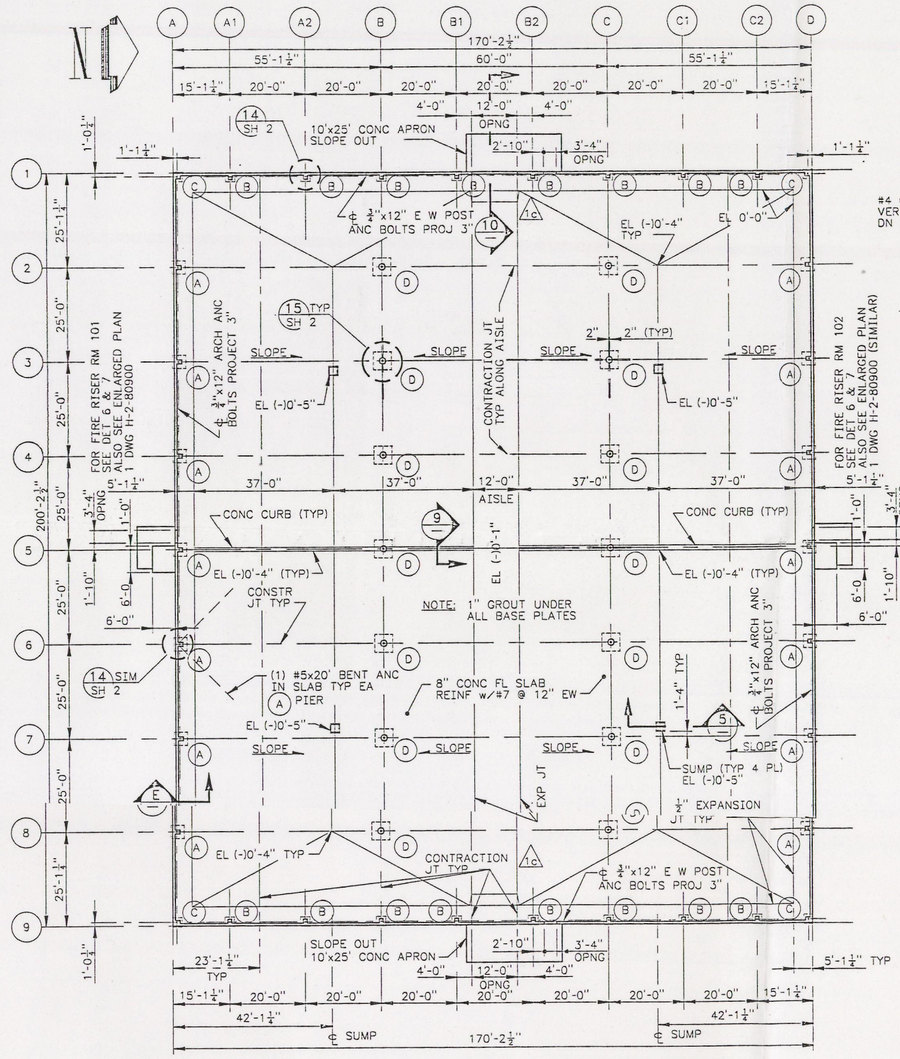
SIZE	BLDG. NO.	INDEX NO.	DRAWING NO.	REV NO.
F	2403-W67 2403-WC 2403-W5	0800	H-2-80900	2

SCALE SHOWN — JOB NO C2 9265 — SHEET 1 OF 1

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION
Reviewing Official/ADC
Kaiser Engineers Hanford Company
8-15-90
Date

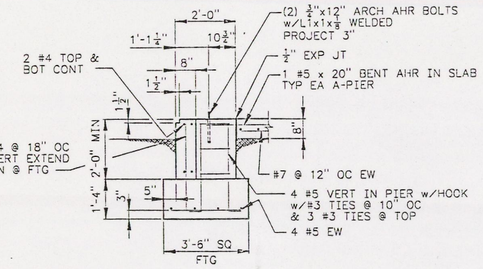
OFFICIAL RELEASE BY WHC DATE OCT-4 1990

CAUTION
NOT COMPLETE WITHOUT CURRENT STATUS OF OUTSTANDING ECNS FROM DATA BASE
JAN 14 1993



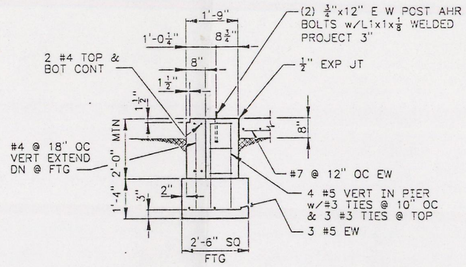
FOUNDATION PLAN

SCALE: 1/16"= 1'-0" DATUM EL 710.6 = EL 0'-0" BLDG 2403-WC
DATUM EL 697.6 = EL 0'-0" BLDG 2403-WB



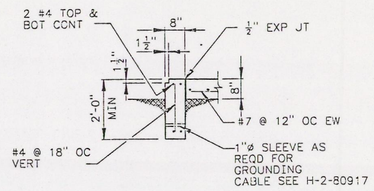
FOOTING DETAIL (A)

SCALE: ½"= 1'-0" (--), SH 2



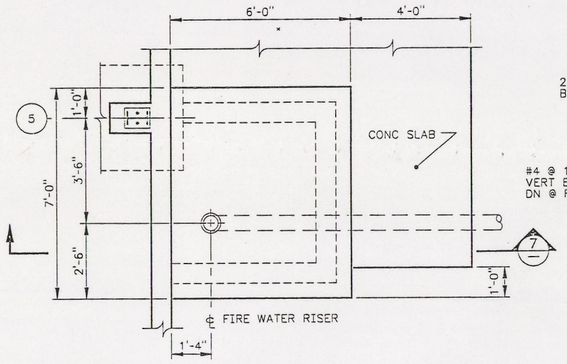
FOOTING DETAIL (B)

SCALE: ½"= 1'-0" (--), SH 2



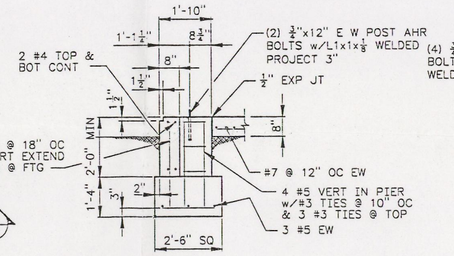
SECTION (E)

SCALE: ½"= 1'-0" (--), SH 2



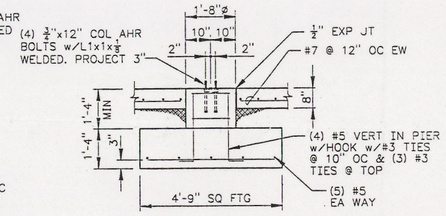
DETAIL (6)

SCALE: ¼"= 1'-0"



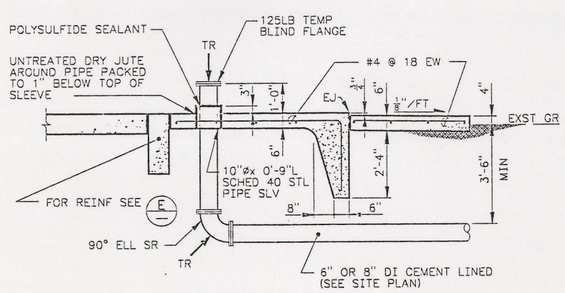
FOOTING DETAIL (C)

SCALE: ½"= 1'-0" (--), SH 2



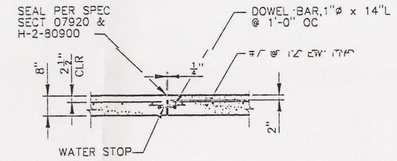
FOOTING DETAIL (D)

SCALE: ½"= 1'-0" (--), SH 2

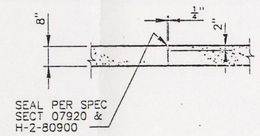


DETAIL (7)

SCALE: ½"= 1'-0" (--), SH 2



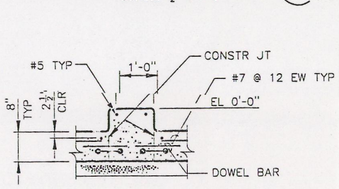
CONSTRUCTION JT



CONTRACTION JT

TYP SLAB JTS (3)

SCALE: ½"= 1'-0"



TYP SLAB REINF & CURB (9)

SCALE: ¼"= 1'-0"

NOTES:

1.- FOR LEGEND, SEE H-2-80895

2.- COAT ALL EXPOSED CONCRETE AND GROUT INSIDE OF BUILDINGS 2403 WB, - WC, - WD WITH SPECIAL PROTECTIVE COATING IN ACCORDANCE WITH SPEC SECTION 09805

3.- DESIGN STRESSES:

SOIL BEARING	2600 PSF
REINFORCING STEEL	FY = 60,000 PSI

4.- GRATING TO HAVE 2 1/4" X 3/8" BEARING BARS SPACED 1-3/8"CC WITH CROSSBARS AT 4" CC. INSTALL 2 SECTIONS, EACH 2'-4" LONG X 1'-2" WIDE.

5.- CUT EVERY OTHER REINFORCEMENT BAR PASSING THROUGH CONTRACTION JOINTS.

6.- COORDINATE SIZE AND LOCATION OF FOOTINGS, BASE PLATES, AND ANCHOR BOLTS WITH METAL BUILDING SUPPLIER.

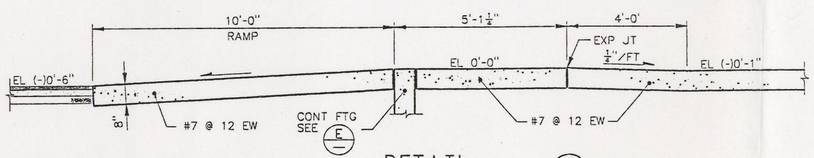
7.- NUMBER AND LOCATION OF ENDWALL COLUMN MAY VARY DEPENDING ON BUILDING DESIGN. PROVIDE ADDITIONAL ENDWALL FOOTING PER DETAILS B & C AS REQUIRED.

8.- ALL EXPANSION JOINTS SHALL BE 1/2". SEE H-2-80900.

PHASE 2, 3, & 4

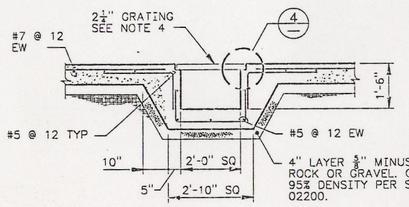
DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

G.L. KOCI
Reviewing Official/ADC
Kaiser Engineers Hanford Company
6/25/90
Date



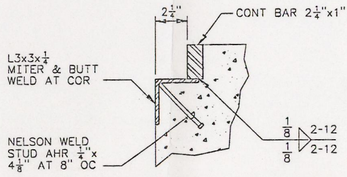
DETAIL (10)

SCALE: ½"= 1'-0"



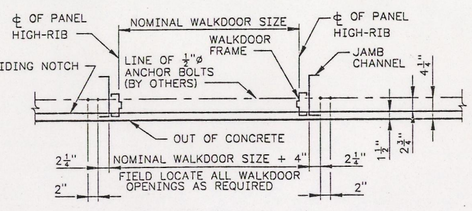
TYP SUMP (5)

SCALE: ½"= 1'-0"



DETAIL (4)

SCALE: 3"= 1'-0"



NOTE:

1.- WHEN CONCRETE CURBS ARE REQUIRED, ALL WALKDOOR JAMBS ARE TO STOP AT THE TOP OF THE CONCRETE CURB UNLESS OTHERWISE NOTED OR REQUESTED BY THE BUILDER.

2.- WHEN NOTCHING A CURB FOR THE OPENING, INCREASE THE WIDTH OF THE NOMINAL DOOR SIZE BY 4" TO ALLOW THE WALKDOOR FRAME TO EXTEND TO THE FLOOR SLAB.

3.- IT IS RECOMMENDED THAT THE LOCATION OF THE WALKDOOR FRAME LAND ON THE CENTERLINE OF THE PANEL HI-RIBS FOR MAXIMUM WEATHER-TIGHTNESS.

JAMB ANCHOR BOLT PLAN WITH SIDING NOTCH

(FOR WALKDOOR OPENINGS)

DRAWING TRACEABILITY LIST

NUMBER	TITLE
H-2-80894	DRAWING LIST

NEXT USED ON H-2-80895

REV NO.	DESCRIPTION	REV BY DATE	KEH APPROVALS	APVD FOR IMPL/INC FOR DATE
1	AS-BUILT FOR PROJ W-016H a) ECN W-016H-87 Z: C7 F7 b) ECN W-016H-85 Z: B2 c) ECN W-016H-76 GENERAL REVISION	DJH 11-92		

CAD FILE B080901A CAD CODE 2B:IBM:ACD2:11.0:NN

APPROVED FOR IMPLEMENTATION BY HE WELLSFRY FOR WHC DATE 9-27-90

DESIGNED	F. OSTROM	DATE	
DSGN ENGR	AS LANGEVIN	6-26 1990	
CHECKED	CM CONSELMAN	6-25 1990	
SAFETY	DK LUNDGREN	6-27 1990	
ENVIR	RG HOLLENBECK	6-28 1990	
DUAL ENGR	TC OTEN	6-28 1990	
LEAD ENGR	AS LANGEVIN	8-16 1990	

SAFETY CLASS 3 EDT 125914

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

M STRL
FOUNDATION PLAN & DETAILS

PROJECT W-016H RMW STORAGE FACILITY

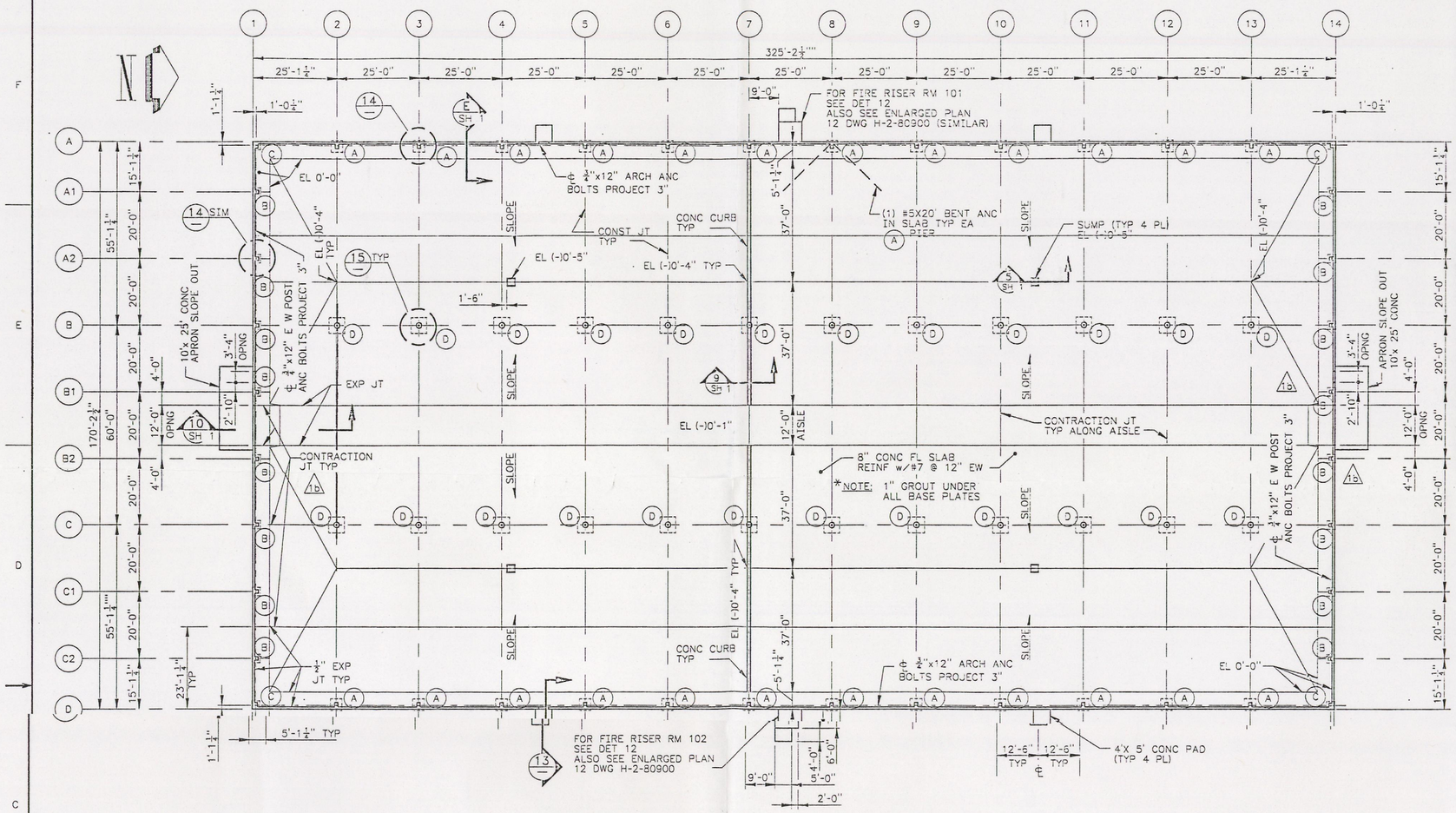
SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403-WD 2403-WC 2403-WB	0900	H-2-80901	1

SCALE SHOWN JOB NO. CR9265 SHEET 1 OF 2

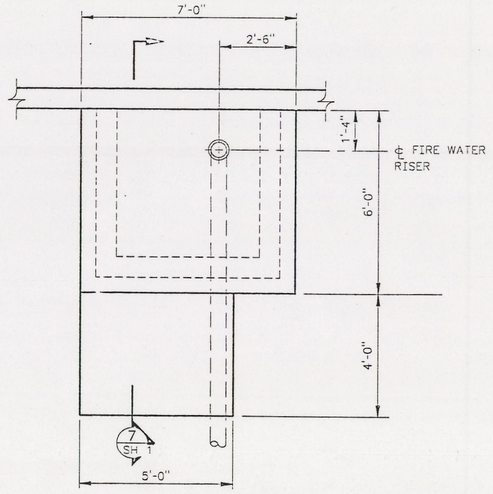
PLOT SCALE: 1=16 KEHCAD

KEH 0350.00 (04/92) STRTKEHF: 19920415.0900

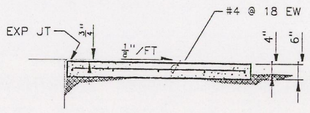
CAUTION
NOT COMPLETE WITHOUT
CURRENT STATUS OF OUTSTANDING
ECNS FROM DATA BASE
JAN 14 1993



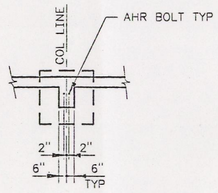
FOUNDATION PLAN
SCALE: 1/16" = 1'-0" DATUM EL 706.6 = EL 0'-0" BLDG 2403-WD



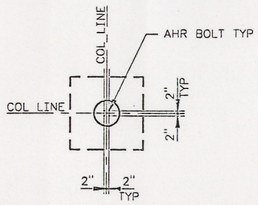
DETAIL 12
SCALE: 1/4" = 1'-0"



CONC PAD 13
SCALE: 1/2" = 1'-0"
(TYP 4 PL)



DETAIL 14
SCALE: 1/4" = 1'-0"



DETAIL 15
SCALE: 1/4" = 1'-0"

NOTE:
SEE H-2-80901, SH 1 FOR NOTES & DETAILS

PHASE 2

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

G.L. KOCI
Reviewing Official/ADC
Kaiser Engineers Hanford Company
6/25/90
Date

NUMBER	TITLE
DRAWING TRACEABILITY LIST	

NUMBER	TITLE
H-2-80894	DRAWING LIST
NEXT USED ON	REFERENCES

REV NO.	DESCRIPTION	REV BY DATE	KEH APPROVALS	APVD FOR IMPL/INC FOR DATE
1	AS-BUILT FOR PROJ W-016H b) ECN W-016H-87 Z E4.7 a) ECN W-016H-76 GENERAL REVISION	D-JW 11-92		

REVISIONS

CAD FILE 8080901B CAD CODE 2B:IBM:ACD2:11.0:NN

DESIGNED	E. OSTROM	DATE	
DSGN ENGR	AS LANGEVIN	6-25 1990	
CHECKED	CM CONSELMAN	6-25 1990	
SAFETY	DK LUNDGREN	6-27 1990	
CNVER	RG HOLLENBECK	6-28 1990	
QUAL ENGR	TC OTEN	6-28 1990	
LEAD ENGR	AS LANGEVIN	6-18 1990	

APPROVED FOR IMPLEMENTATION BY HE WELLSFRY FOR WHC DATE 9-27-90

SAFETY CLASS 3 | FDT 125914

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

M STRL
FOUNDATION PLAN & DETAILS

PROJECT W-016H RMW STORAGE FACILITY

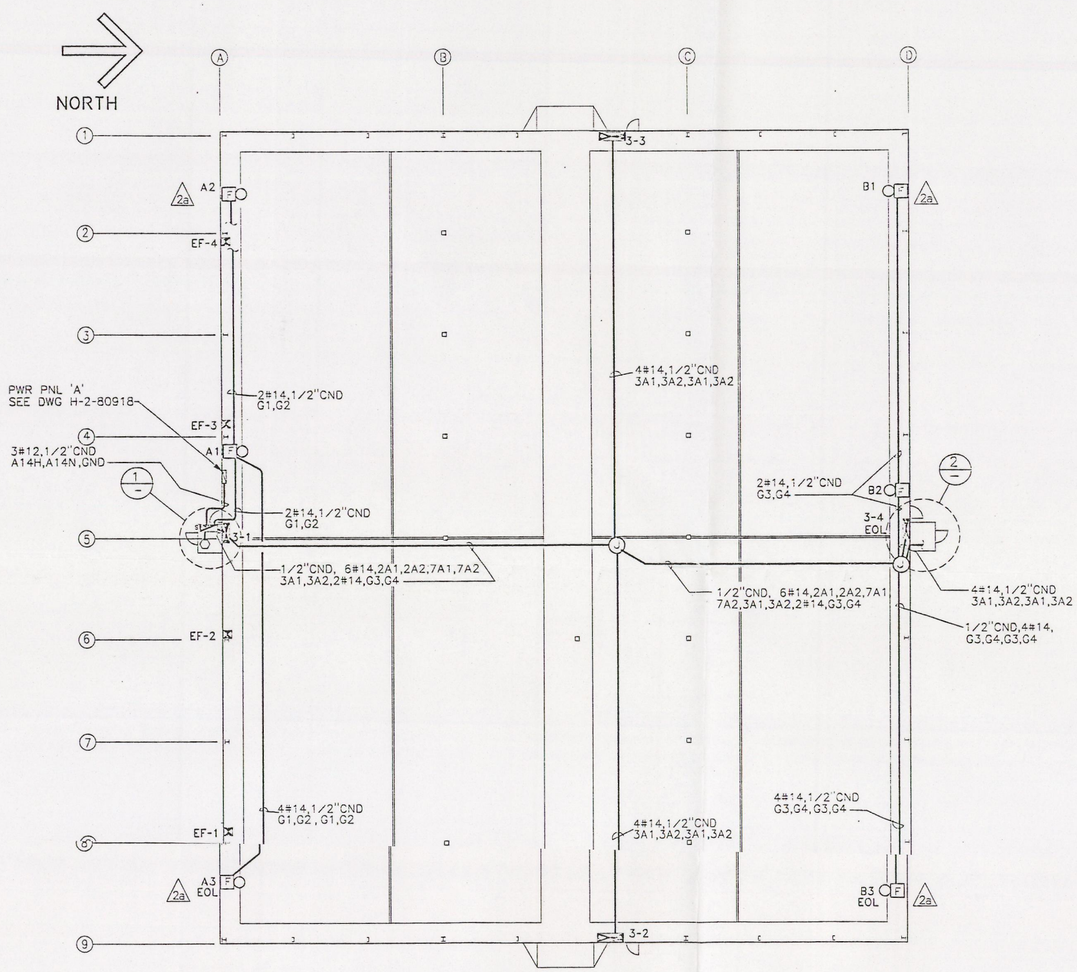
SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403-WD	0900	H-2-80901	1

SCALE SHOWN | JOB NO. CR9265 | SHEET 2 OF 2

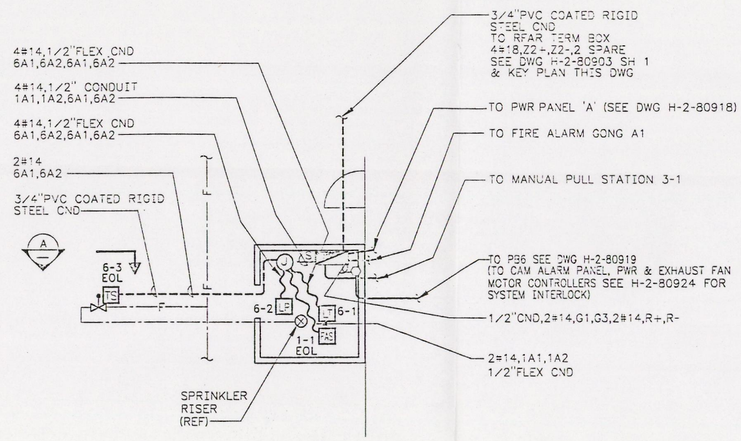
PLOT SCALE: 1=16 KEHCAD

KEH 0350.00 (04/92)
STRTKEH: 19920413.0900

CAUTION
NOT COMPLETE WITHOUT
CURRENT STATUS OF OUTSTANDING
ECNS FROM DATA BASE
JAN 14 1993



PLAN VIEW 2403-WB
SCALE: NONE



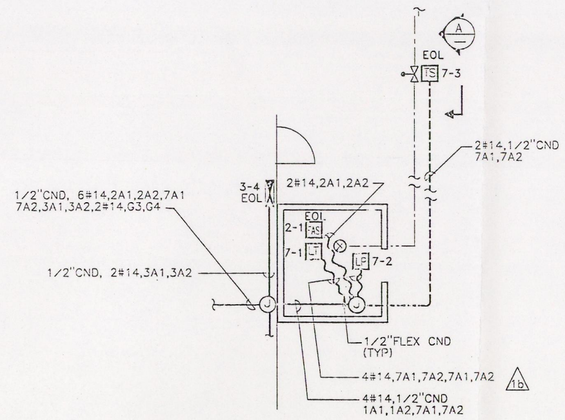
SPRINKLER RISER 1
ENCLOSURE DETAIL
SCALE: NONE

LEGEND

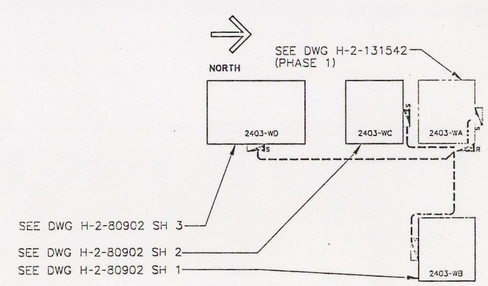
	EXISTING
	FLEX CONDUIT
— F —	UNDERGROUND LINE
	UNDERGROUND CONDUIT
	NEW CONDUIT
F	FIRE ALARM GONG
S	FIRE ALARM CONTROL PANEL (FACP)
R	RADIO MASTERBOX (RFAR)
	JUNCTION BOX
LP	LOW AIR PRESSURE SUPERVISORY SW
TS	TAMPER SWITCH
	MANUAL PULL STATION
T	TERMINAL BOX
LT	LOW TEMPERATURE SWITCH
FS	FLOW ALARM PRESSURE SWITCH
EOL	END OF LINE DEVICE
R	RED INDICATOR LIGHT
	EXHAUST FAN MOTOR CONTROLLER
	AUX DISCONNECT BOX

NOTES

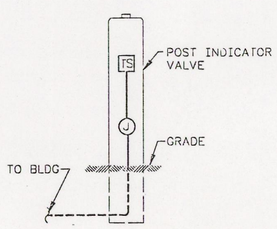
1. FIELD ROUTE NEW CONDUIT.
2. FINAL WIRING CONNECTIONS IN RFAR TO BE MADE BY WHC TELECOMMUNICATIONS.
3. FIELD WIRING CONTINUITY SUPERVISED; BRANCHING NOT PERMITTED.



SPRINKLER RISER 2
ENCLOSURE DETAIL
SCALE: NONE



KEY PLAN
SCALE: NONE



SECTION
SCALE: NONE

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

R. HARMON
Reviewing Official/ADC
Kaiser Engineers Hanford Company
9-26-90
Date

PHASE 4

NUMBER	TITLE	REFERENCES
		H-2-80904 DRAWING LIST

DRAWING TRACEABILITY LIST — NEXT USED ON

MF	REV NO.	DESCRIPTION	REV BY / DATE	KEH APPROVALS	APVD FOR IMPLM'ING FOR DATE
M RS	2	AS-BUILT FOR PROJ W-016H a)ECN W016H-108 Z C,F 5,7	AGT 8/91 DKG 8/91 AGT 8/91	KCA	EWS
	1	b)ECN W016-63 Z B3 a)ECN W016-54 GEN REV	CRM	KCA 5/91	WAH DKL 5/91	HEW 5/91

REVISIONS

CAD FILE [illegible] CAD CODE 2J-TBM-ACD2-10.0-NN

APPROVED FOR IMPLEMENTATION BY H.E. WELLSFRY FOR WHC DATE 9-27-90

		DATE
DRAWN	C MCGOUGH	
CHECKED	G BUBB	9-90
SAFETY	J ARCHIBALD	9-90
CNVER	DK DABOLL	9-90
DE	T.C. OTEN	9-90
LEAD ENG APVD	D LUNDGREN	9-90

IMPACT LEVEL 3 — EDT 125914

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

FIRE PROTECTION
ALARM SYSTEM
PLAN, SECTIONS & DETAILS

PROJECT WO16H RMW STORAGE FACILITY

SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403-WB	7701	H-2-80902	2

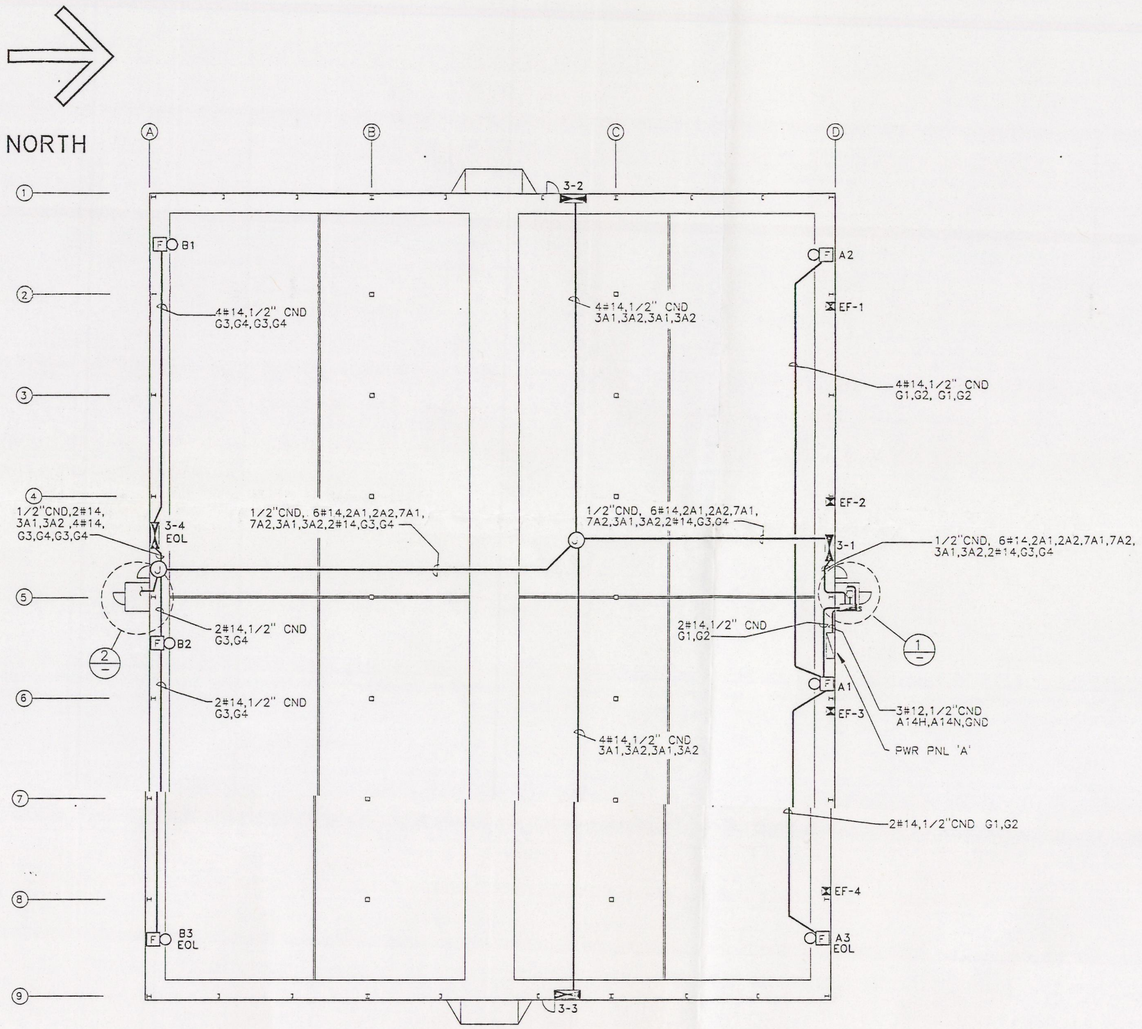
SCALE SHOWN — JOB NO. CR9265 — SHEET 1 OF 3

KEHCAD

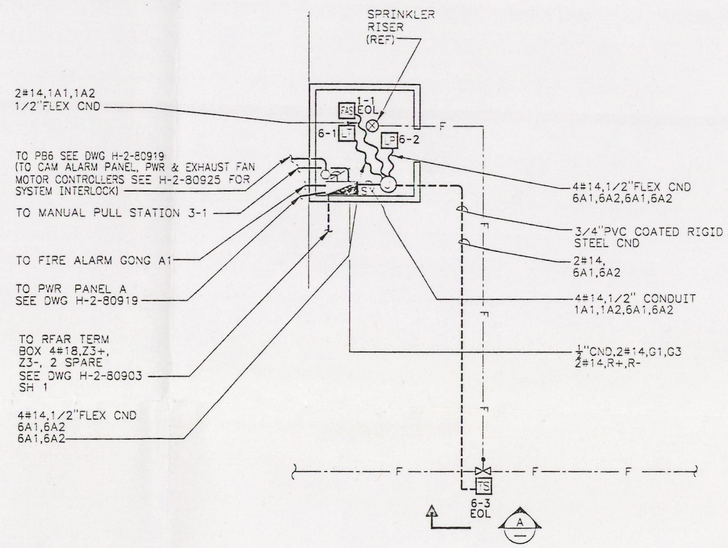
CAUTION
NOT COMPLETE WITHOUT
CURRENT STATUS OF OUTSTANDING
ECNS FROM DATA BASE

JAN 14 1993

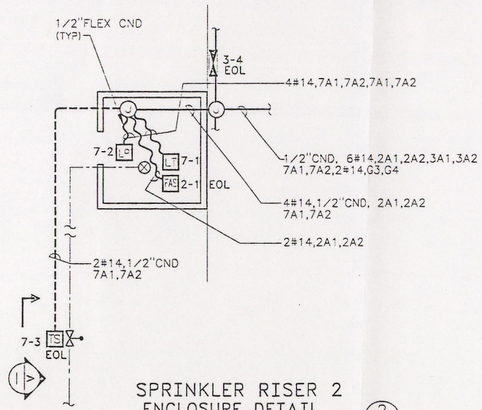
23



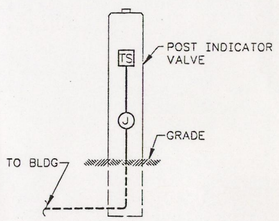
PLAN VIEW BLDG 2403-WC
SCALE: NONE



SPRINKLER RISER 1
ENCLOSURE DETAIL
SCALE: NONE



SPRINKLER RISER 2
ENCLOSURE DETAIL
SCALE: NONE



SECTION A
SCALE: NONE

DOES NOT CONTAIN CLASSIFIED OR
UNCLASSIFIED CONTROLLED
NUCLEAR INFORMATION

R. HARMON
Reviewing Official/ADC
Kaiser Engineers Hanford Company
9-26-90
Date

FOR NOTES, LEGEND & KEY PLAN SEE DWG H-2-80902 SH 1

PHASE 3

NUMBER	TITLE	NUMBER	TITLE
		H-2-80904	DRAWING LIST
DRAWING TRACEABILITY LIST		NEXT USED ON	REFERENCES

MF	REV NO.	DESCRIPTION	REV BY	DATE	KEH APPROVALS			APVD FOR IMPL/INC FOR DATE
MS	2	AS-BUILT FOR PROJ W-016H a)ECN W016H-108 Z A3	LCVA RCC	10/92	KCA			
MRS	1	a)ECN W016-54 GEN REV	DKG ADT	4/91	CRM	KCA 5/91	WAH DKL 5/91	HEW 5/91

REVISIONS

CAD FILE B0809028 CAD CODE 2J-IBM-AGD2.10.0.NN

APPROVED FOR IMPLEMENTATION BY H.E. WELLSFRY FOR WHC DATE 9-27-90

		DATE
DRAWN	C MCGOUGH	
CHECKED	G BUBB	9/90
SAFETY	J ARCHIBALD	9/90
ENVIR	DK DABOLL	9/90
QE	TC OTEN	9/90
LEAD ENG APVD	D LUNDGREN	9/90

IMPACT LEVEL 3 EDT 125914

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

FIRE PROTECTION
ALARM SYSTEM
PLAN, SECTIONS & DETAILS

PROJECT W016H RMW STORAGE FACILITY

SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403-WC	7701	H-2-80902	2

SCALE SHOWN JOB NO. CR9257 SHEET 2 OF 3

KEHCAD

CAUTION
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CURRENT STATUS OF OUTSTANDING
ECNS FROM DATA BASE

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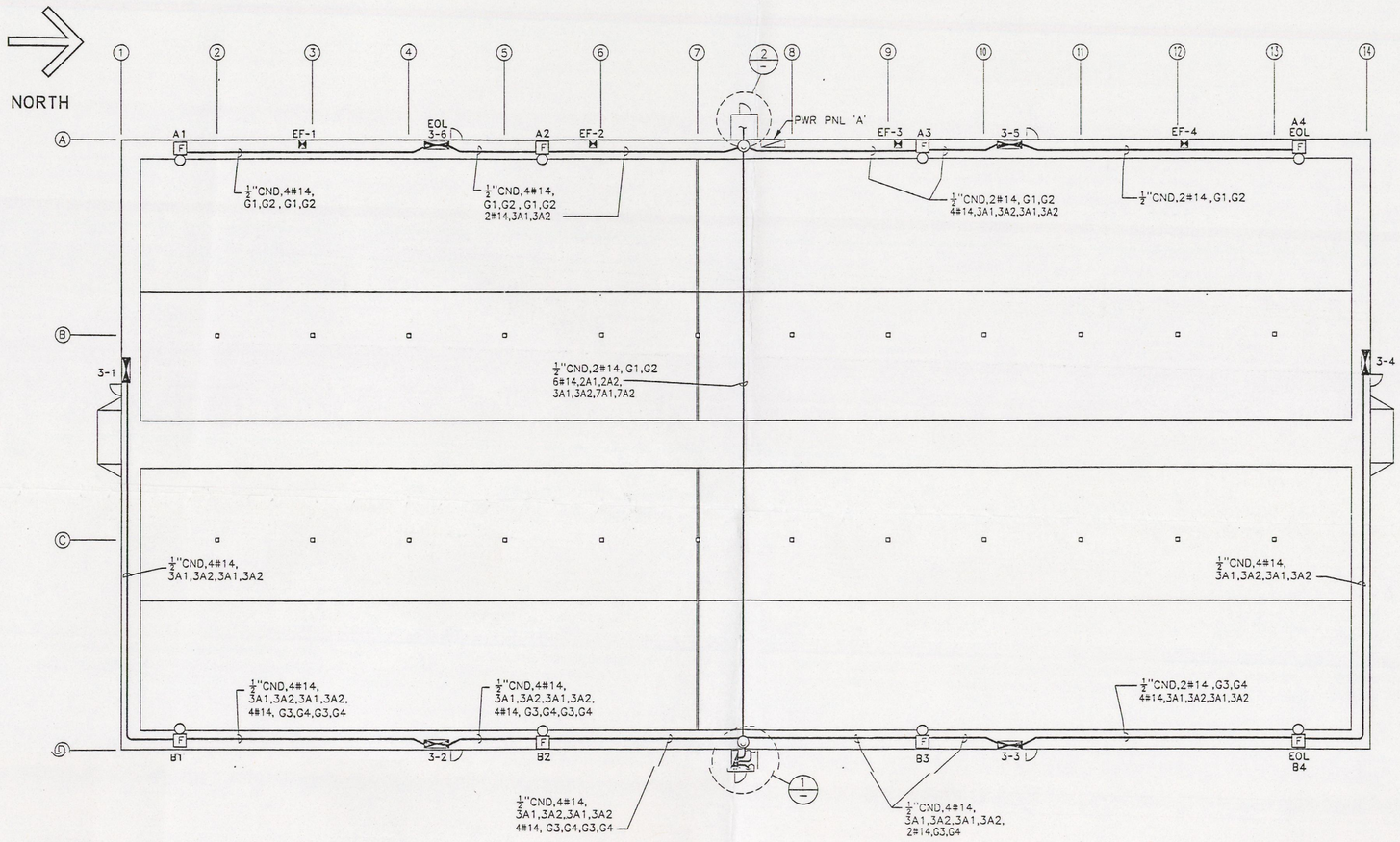
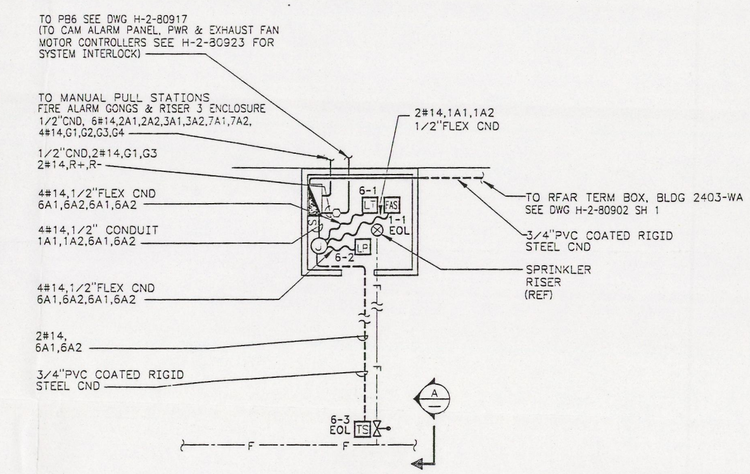
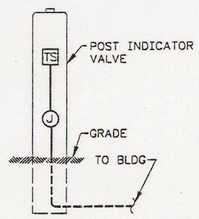
JAN 14 1993



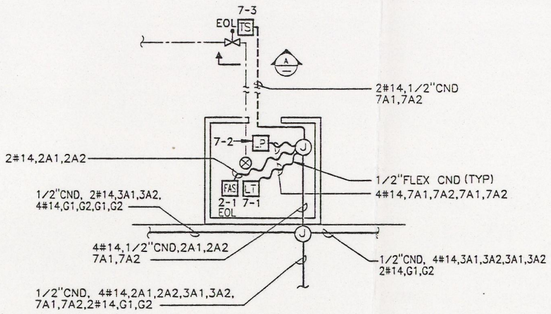
PLAN VIEW BLDG 2403-WD
SCALE: NONE



SPRINKLER RISER 1
ENCLOSURE DETAIL
SCALE: NONE



SECTION
SCALE: NONE



SPRINKLER RISER 2
ENCLOSURE DETAIL
SCALE: NONE

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

R. J. HARMON
Reviewing Official/ADC
Kaiser Engineers Hanford Company
9-26-90
Date

FOR NOTES, LEGEND & KEY PLAN SEE DWG H-2-80902 SH 1

PHASE 2

DRAWING LIST			
NUMBER	TITLE	NUMBER	TITLE
DRAWING TRACEABILITY LIST		NEXT USED ON	REFERENCES
		H-2-80904	

MF	REV NO.	DESCRIPTION	REV BY DATE	KEH APPROVALS			APVD FOR IMPL/INC FOR DATE
RS	2	AS-BUILT FOR PROJ W-016H b)ECN W016-54 Z E2 a)ECN W016H-108 Z A3	RCC 11/92				
RS	1	a)ECN W016-54 GEN REV	DKG ADT 4/91	CRM	KCA 5/91	WAH DKL 5/91	HEW 5/91

REVISIONS
CAD FILE B080902C CAD CODE 2J:IBM:ACD2:10.0:NN

		DATE
DRAWN	C MCGOUGH	
CHECKED	G BUBB	9/90
SAFETY	J ARCHIBALD	9/90
ENVIR	DK DABOLL	9/90
QE	TC OTEN	9/90
LEAD ENG APVD	D LUNDGREN	9/90

APPROVED FOR IMPLEMENTATION BY H.E. WELLSFRY FOR WHC DATE 9-27-90

IMPACT LEVEL 3 EDT 125914

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

FIRE PROTECTION
ALARM SYSTEM
PLAN, SECTIONS & DETAILS

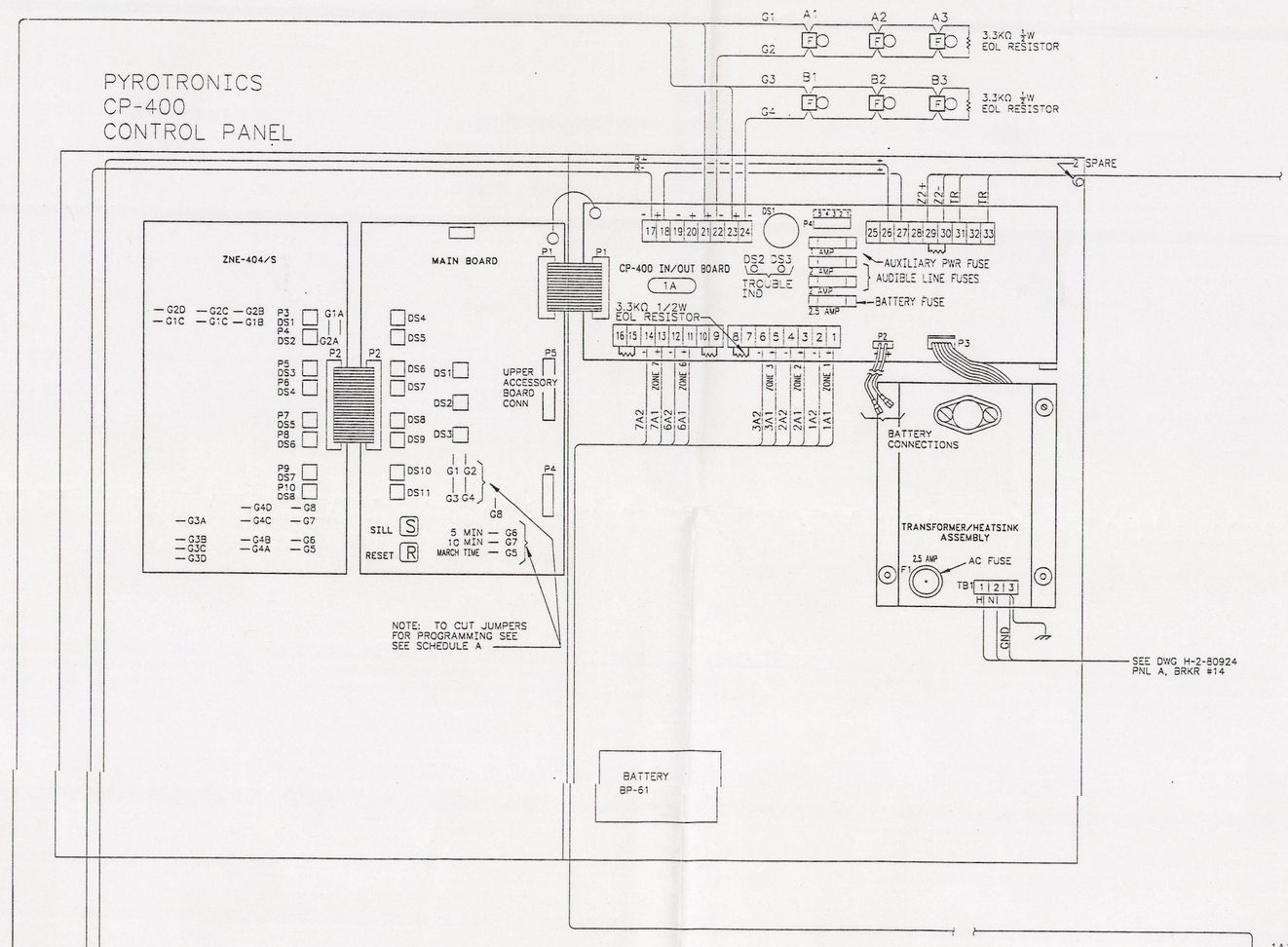
PROJECT W016H RMW STORAGE FACILITY

SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403-WD	7701	H-2-80902	2

SCALE SHOWN JOB NO. CR9265 SHEET 3 OF 3

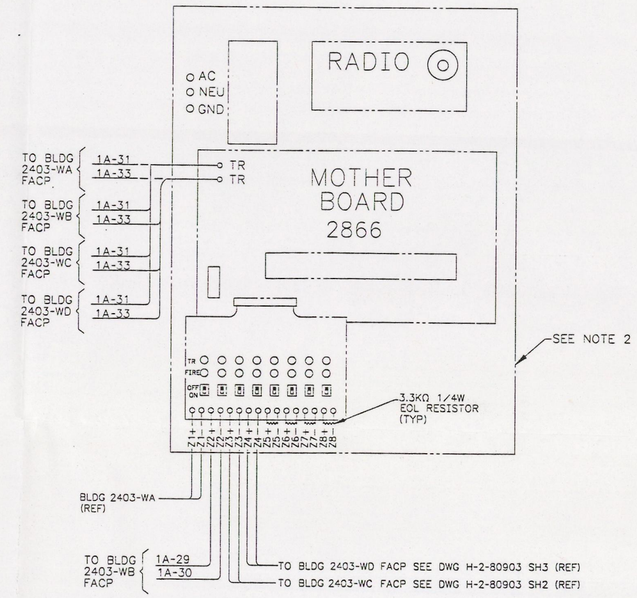
KEHCAD

CAUTION
NOT COMPLETE WITHOUT
CURRENT STATUS OF OUTSTANDING
ECNS FROM DATA BASE
23
JAN 19 1993



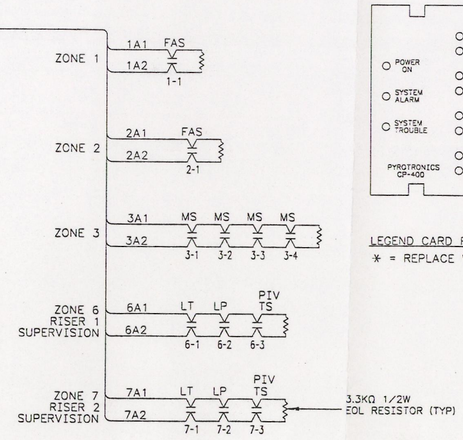
WIRING DIAGRAM BLDG 2403-WB

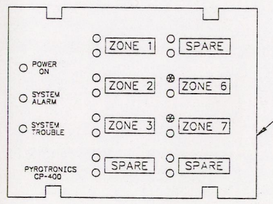
SCALE: NONE



EXISTING RFAR - BLDG 2403-WA

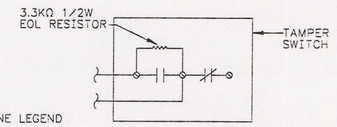
FOR LOCATION SEE KEY PLAN, DWG H-2-80902 SH 1





LEGEND CARD FOR CP-400 WITH ZNE-404/S

* = REPLACE W/YELLOW LED



TAMPER SWITCH (PIV) WITH EOL RESISTOR (1)

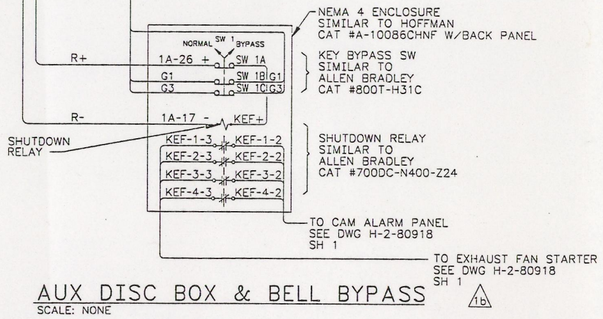
SCALE: NONE

PROGRAM SCHEDULE

MAIN BOARD		EXTENDER BOARD					
G1	X	G1A		G3A		G5	
G2	X	G1B	X	G3B		G6	X
G3	X	G1C	X	G3C		G7	X
G4		G1D		G3D		G8	
G5		G2A		G4A			
G6	X	G2B	X	G4B	X		
G7	X	G2C	X	G4C	X		
G8	X	G2D		G4D			

X = CUT JUMPER

SCHEDULE A



AUX DISC BOX & BELL BYPASS

SCALE: NONE

LOCATE IN CLOSE PROXIMITY TO FACP

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

E.A. VICKERY
Reviewing Official/ADC
Kaiser Engineers Hanford Company
8/17/90
Date

FOR NOTES, LEGEND & KEY PLAN SEE DWG H-2-80902 SH 1

PHASE 4

NUMBER	TITLE
DRAWING TRACEABILITY LIST	

NUMBER	TITLE
H-2-80904	DRAWING LIST
REFERENCES	
NEXT USED ON	

REV NO.	DESCRIPTION	REV BY / DATE	KEH APPROVALS	APVD FOR IMPL/ENG FOR DATE
2 (RS)	AS-BUILT FOR PROJ W-016H a)ECN W016H-108 Z A3	MAK RCG 11/91	KCA	HEW
1 (RS)	b)ECN W016-63 Z A6,7 a)ECN W016-54 GEN REV	MAK DKG ADT 4/91	CRM KCA 5/91	WAH DKL 5/91 HEW 5/91

REVISIONS

CAD FILE B080903A CAD CODE 2J:IBM:ACD2:10.0:NN

DRAWN C MCGOUGH DATE
CHECKED G BUBB 8/90
SAFETY D LUNDGREN 8/90
ENVIR R HOLLENBECK 8/90
QE TC OTEN 8/90
LEAD ENG APVD D LUNDGREN 8/90

APPROVED FOR IMPLEMENTATION BY H.E. WELLSFRY FOR WHC DATE 9-27-90

IMPACT LEVEL 3 EDT 125914

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

FIRE PROTECTION ALARM SYSTEM WIRING DIAGRAM

PROJECT W016H RMW STORAGE FACILITY

SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403-WB	7702	H-2-80903	2

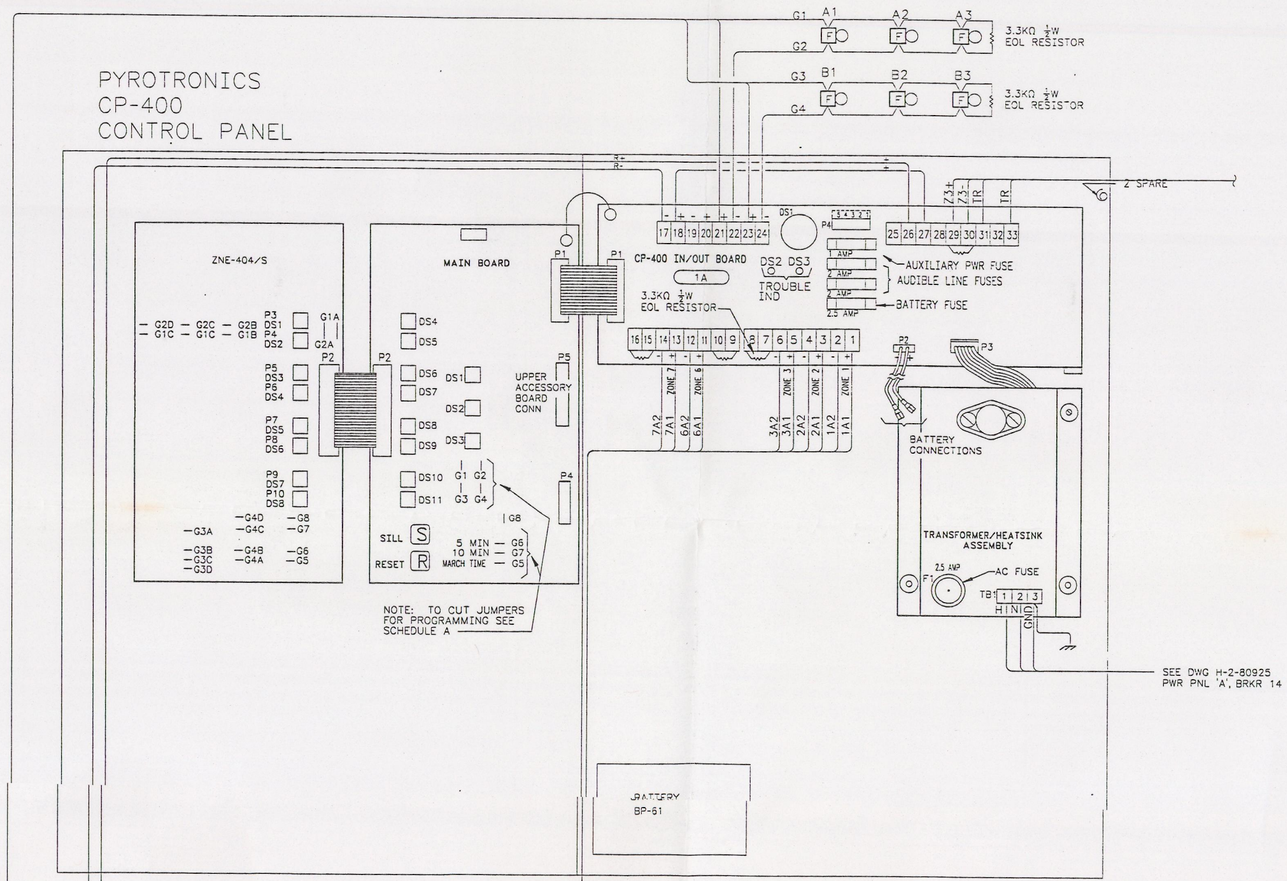
SCALE SHOWN JOB NO. CR9265 SHEET 1 OF 3

KEHCAD

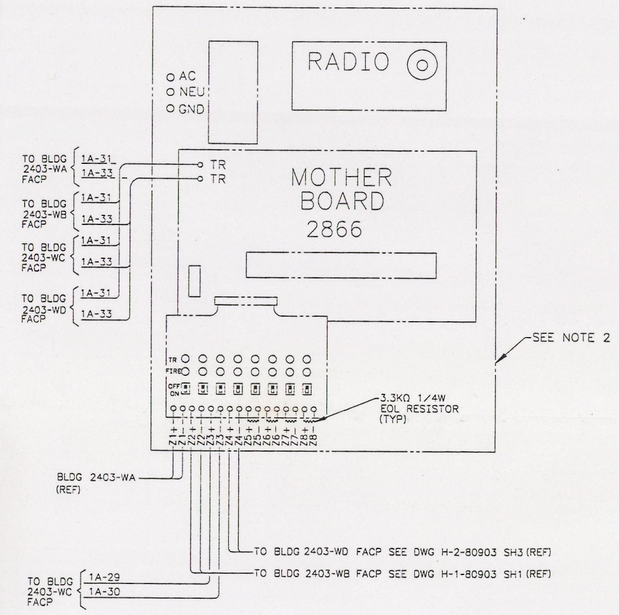
CAUTION
NOT COMPLETE WITHOUT CURRENT STATUS OF OUTSTANDING ECNS FROM DATA BASE

23

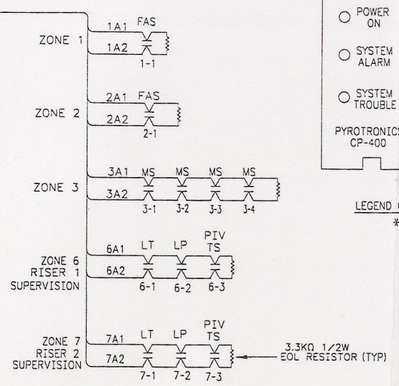
JAN 14 1993

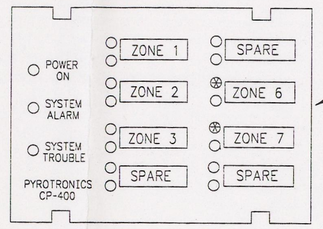


WIRING DIAGRAM FACP BLDG 2403-WC
SCALE: NONE

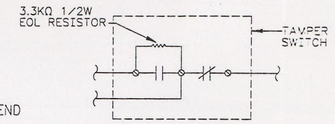


EXISTING RFAR - BLDG 2403-WA
FOR LOCATION SEE KEY PLAN, DWG H-2-80902 SH 1





LEGEND CARD FOR CP-400 WITH ZNE-404/S
* = REPLACE W/YELLOW LED

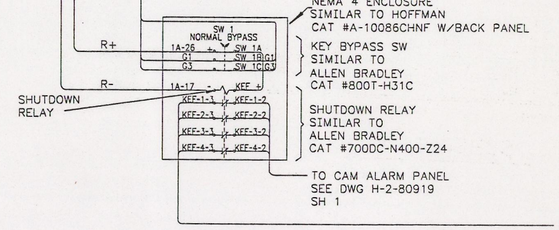


TAMPER SWITCH (PIV) WITH EOL RESISTOR
SCALE: NONE

PROGRAM SCHEDULE							
MAIN BOARD		EXTERIOR BOARD					
G1	X	G1A		G3A		G5	
G2	X	G1B	X	G3B		G6	X
G3	X	G1C	X	G3C		G7	X
G4		G1D		G3D		G8	
G5		G2A		G4A			
G6	X	G2B	X	G4B	X		
G7	X	G2C	X	G4C	X		
G8	X	G2D		G4D			

X = CUT JUMPER

SCHEDULE A



AUX DISC BOX & BELL BYPASS
SCALE: NONE
LOCATE IN PROXIMITY TO FACP

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION
F.A. VICKERY
Reviewing Official/ADC
Kaiser Engineers Hanford Company
8/17/90
Date

FOR NOTES, LEGEND & KEY PLAN SEE DWG H-2-80902 SH 1

PHASE 3

NUMBER	TITLE	NUMBER	TITLE
DRAWING TRACEABILITY LIST		REFERENCES	
		H-2-80904	DRAWING LIST
		NEXT USED ON	

REV NO.	DESCRIPTION	REV BY	DATE	KEH APPROVALS	APVD FOR IMPL/INC FOR DATE
33	2 AS-BUILT FOR PROJ W-016H a)ECN W016H-108	LCA RCC	11/92	KCA GLW	HEW 5/91
M RS	1 b)ECN W016-63 Z A6,7 a)ECN W016-54 GEN REV	MAK ADT DKG	5/91	CRM KCA 5/91 WAH DKL 5/91	HEW 5/91

REVISIONS
CAD FILE B080903B CAD CODE 2J:IBM:ACD2:10.0:NN

		DATE
DRAWN	C MCGOUGH	
CHECKED	G BUBB	8/90
SAFETY	D LUNDGREN	8/90
ENVIR	R HOLLENBECK	8/90
QE	TC OTEN	8/90
LEAD ENG APVD	LUNDGREN	8/90

APPROVED FOR IMPLEMENTATION BY H.E. WELLSFRY FOR WHC DATE 9/27/90

IMPACT LEVEL 3 EDT 1259'4

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

FIRE PROTECTION ALARM SYSTEM WIRING DIAGRAM

PROJECT W016H RMW STORAGE FACILITY

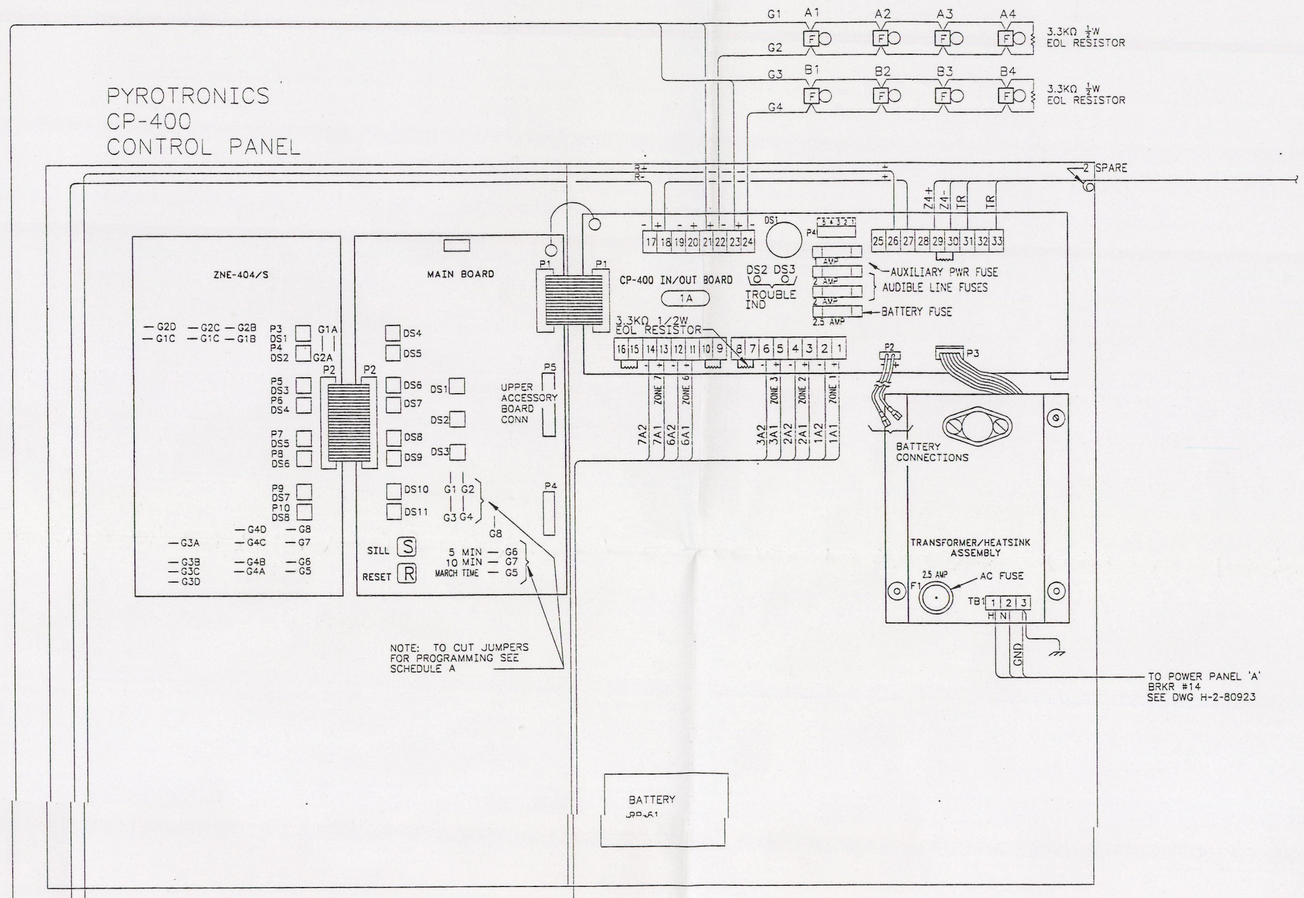
SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403-WC	7702	H-2-80903	2

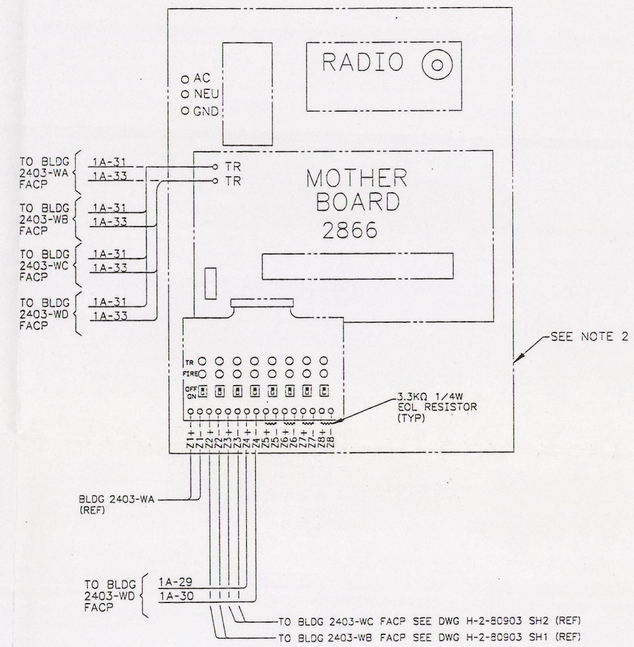
SCALE SHOWN JOB NO. CR9265 SHEET 2 OF 3

KEHCAD

CAUTION
NOT COMPLETE WITHOUT CURRENT STATUS OF OUTSTANDING ECNS FROM DATA BASE
JAN 14 1993

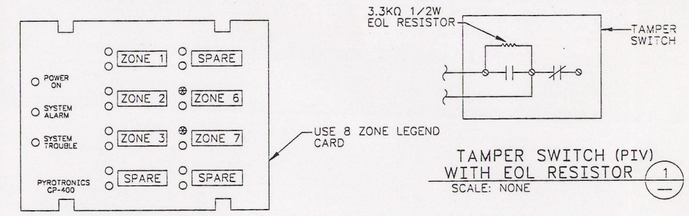
23





EXISTING RFAR - BLDG 2403-WA

FOR LOCATION SEE KEY PLAN, DWG H-2-80902 SH 1



LEGEND CARD FOR CP-400 WITH ZNE-404/S

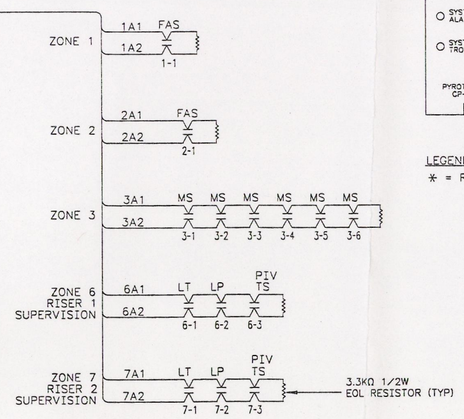
* = REPLACE W/YELLOW LED

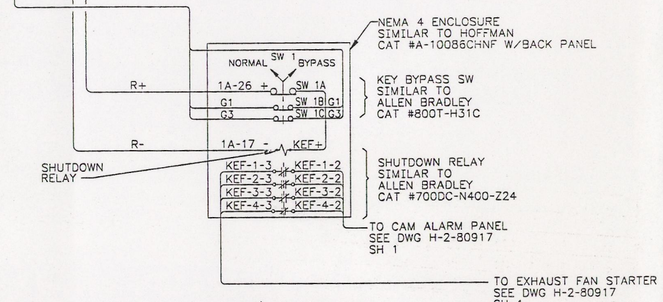
TAMPER SWITCH (PIV) WITH EOL RESISTOR

SCALE: NONE

WIRING DIAGRAM BLDG 2403-WD

SCALE: NONE





AUX DISC BOX & BELL BYPASS

SCALE: NONE

LOCATE IN CLOSE PROXIMITY TO FACP

PROGRAM SCHEDULE

MAIN BOARD		EXTENDER BOARD					
G1	X	G1A		G3A		G5	
G2	X	G1B	X	G3B		G6	X
G3	X	G1C	X	G3C		G7	X
G4		G1D		G3D		G8	
G5		G2A		G4A			
G6	X	G2B	X	G4B	X		
G7	X	G2C	X	G4C	X		
G8	X	G2D		G4D			

X = CUT JUMPER

SCHEDULE A

NUMBER	TITLE
H-2-80904	DRAWING LIST

DRAWING TRACEABILITY LIST

NUMBER	TITLE

REFERENCES

NEXT USED ON

REV NO.	DESCRIPTION	REV BY	DATE	KEH APPROVALS	APVD FOR IMPL/INC FOR DATE
2	AS-BUILT FOR PROJ W-016H a)ECN W016H-108 Z A3	RCC	11/92	KCA 5/91	HEW 5/91
1	b)ECN W016-63 Z A6,7 a)ECN W016-54 GEN REV	MAK AOT	5/91	CRM KCA 5/91 WAH DKL 5/91	HEW 5/91

REVISIONS

CAD FILE B080903C CAD CODE 2J:IBM:ACD2:10.0:NN

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

E.A. VICKERY
Reviewing Official/ADC
Kaiser Engineers Hanford Company
8/17/90
Date

FOR NOTES, LEGEND & KEY PLAN SEE DWG H-2-80902 SH 1

PHASE 2

IMPACT LEVEL 3 EDT 125914

DRAWN	C MCGOUGH	DATE
CHECKED	G BUBB	8/90
SAFETY	D LUNDGREN	8/90
ENVIR	R HOLLENBECK	8/90
QE	TC OTEN	8/90
LEAD ENG APVD	LUNDGREN	8/90

APPROVED FOR IMPLEMENTATION BY H.E. WELLSFRY FOR WHC DATE 9/27/90

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

FIRE PROTECTION ALARM SYSTEM WIRING DIAGRAM

PROJECT W016H RMW STORAGE FACILITY

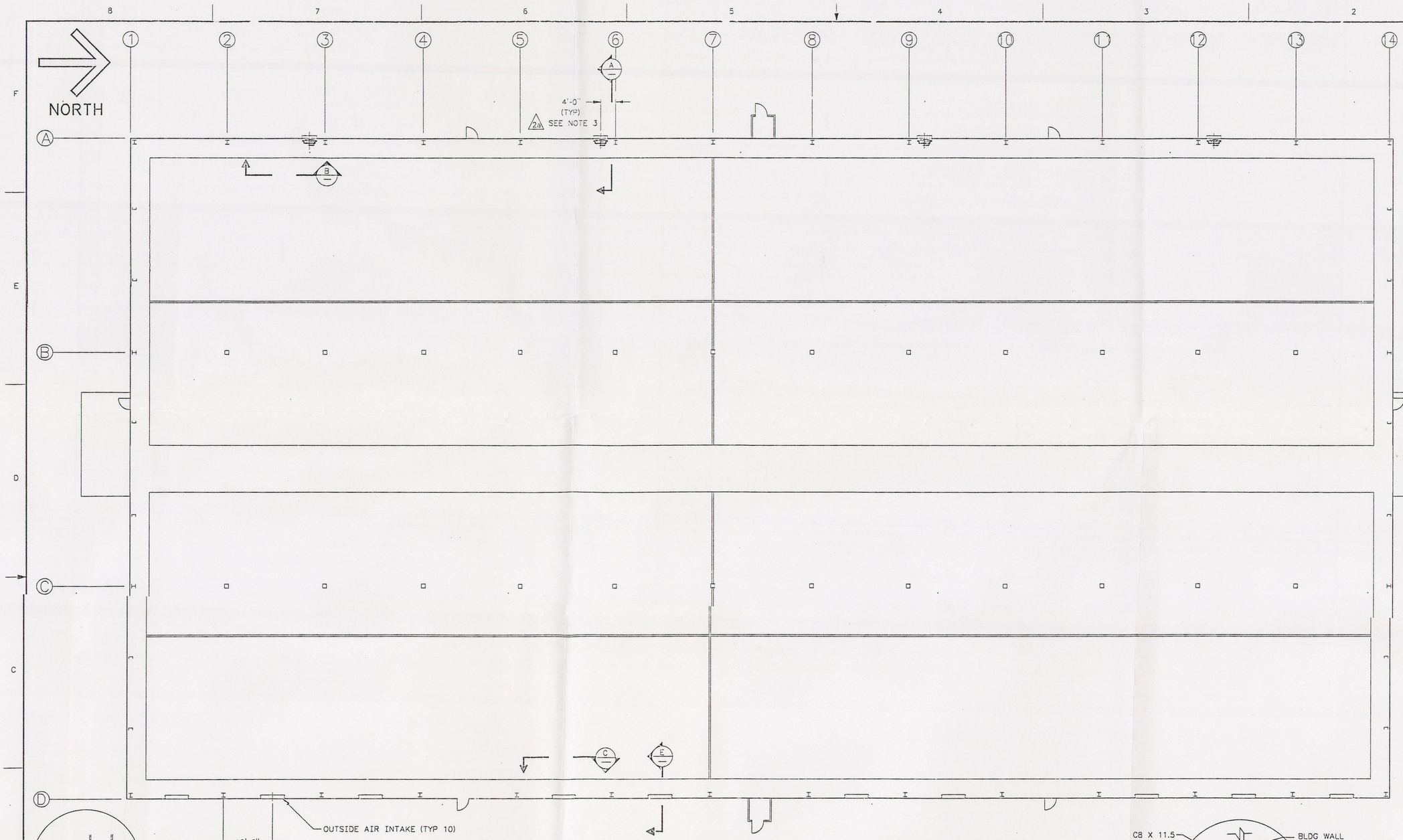
SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403-WD	7702	H-2-80903	2

SCALE SHOWN JOB NO. CR9265 SHEET 3 OF 3

KEHCAD

CAUTION
NOT COMPLETE WITHOUT
CURRENT STATUS OF OUTSTANDING
ECNS FROM DATA BASE
JAN 14 1993

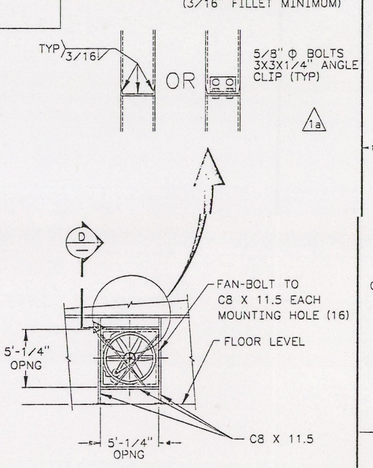
23



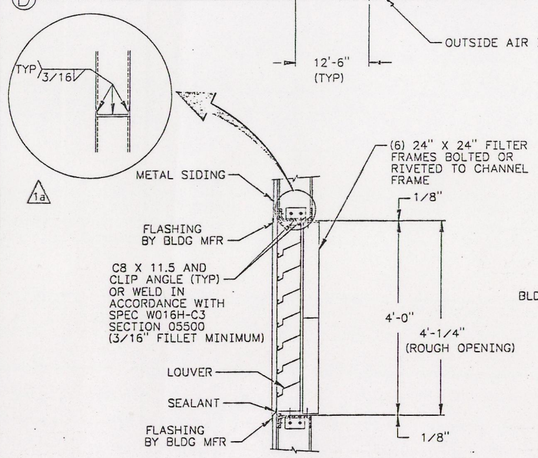
PLAN VIEW
SCALE: 3/32"=1'-0"

GENERAL NOTES

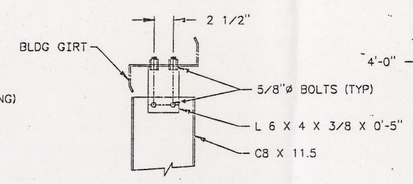
1. SEE SPECIFICATION W-016-C1 FOR EQUIPMENT DESCRIPTION.
2. ALL DIMENSIONS TO BE VERIFIED WITH LOUVER AND EXHAUST FAN REQUIREMENTS.
3. (2a) EXHAUST FANS MAY BE MOVED UP TO 6' IN EITHER DIRECTION TO CLEAR CROSS BRACING.
4. (2b) FILTER THICKNESS AS REQUIRED TO ACHIEVE FILTERING EFFICIENCY.



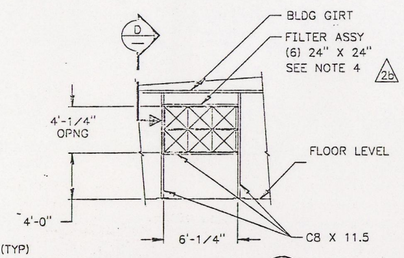
SECTION B
SCALE: 3/16"=1'-0"



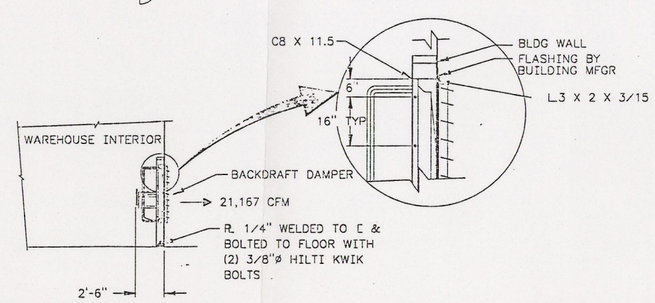
SECTION E
NTS



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



SECTION C
SCALE: 3/16"=1'-0"



SECTION A
SCALE: 3/16:=1'-0"

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

E.A. VICKERY
Reviewing Official/ADC
Kaiser Engineers Hanford Company
8/16/90
Date

PHASE 2

NUMBER	TITLE
DRAWING TRACEABILITY LIST	

NUMBER	TITLE
H-2-80894	DWG LIST
NEXT USED ON	REFERENCES

MF	REV NO.	DESCRIPTION	REV BY DATE	KEH APPROVALS			APVD FOR IMPL/INC FOR DATE
M RS	2	AS-BUILT FOR PROJ W-016H b)ECN W016H-108 Z B5,F1 a)ECN W016H-86 Z F1,F6	RCC 10/92	KCA	RGH 5/91	WAH 5/91	HEW
M RS	1	a)ECN W016-57 Z B8:C,D1	MAX ADT 5/91	KCA 5/91	RGH 5/91	WAH 5/91	HEW 5/91

REVISIONS

CAD FILE B080904A | CAD CODE 2J:IBM:ACD2:10.0:NN

APPROVED FOR IMPLEMENTATION BY HE WELLSERY FOR WHC DATE 9/27/90

DRAWN	R G HALE	DATE 8/16/90
CHECKED	RD PETERSON	8/90
SAFETY	D LUNDGREN	8/90
CWER	R HOLLENBECK	8/90
QE	TC OTEN	8/90
LEAD ENG APVD	RG HALE	8/90

IMPACT LEVEL 3 | EDT 125914

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

M HVAC
PLAN, SECT & DETAILS

PROJECT W-016H RMW STORAGE FACILITY

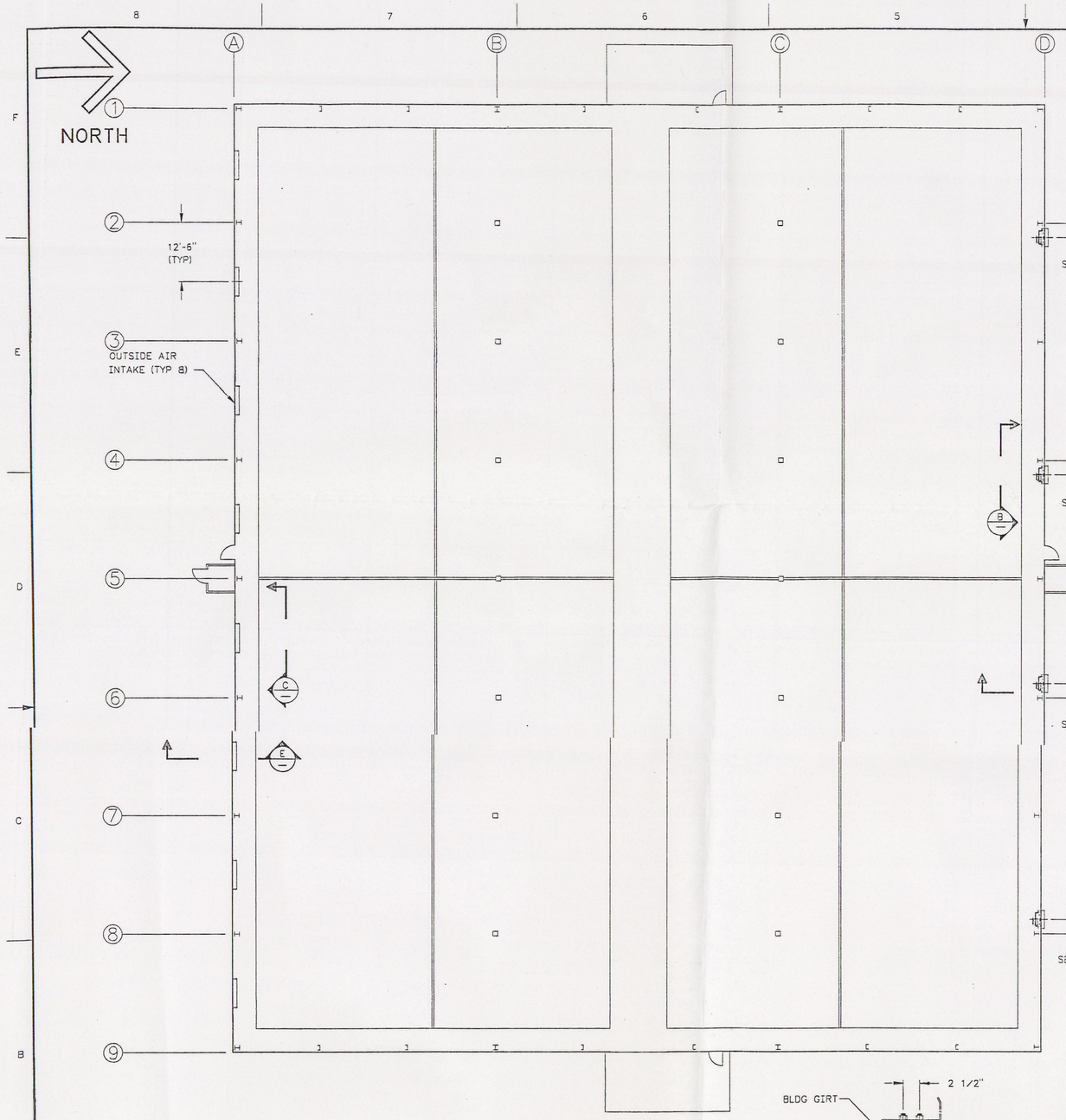
SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403WD	8900	H-2-80904	2

SCALE SHOWN | JOB NO. CR 9265 | SHEET 1 OF 3

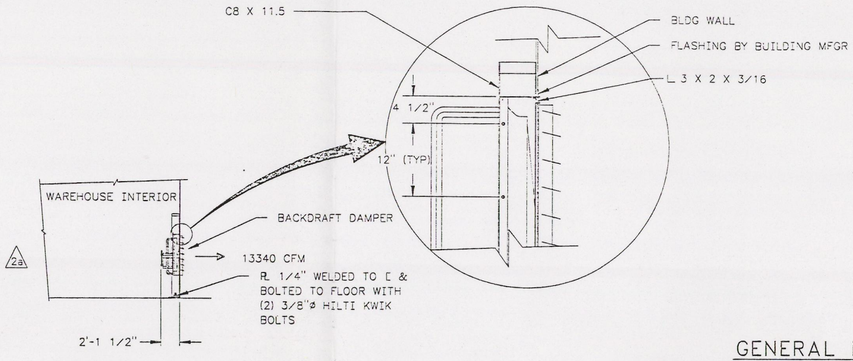
KEHCAD

CAUTION
NOT COMPLETE WITHOUT CURRENT STATUS OF OUTSTANDING ECNS FROM DATA BASE

JAN 14 1993 (23)

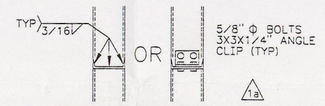


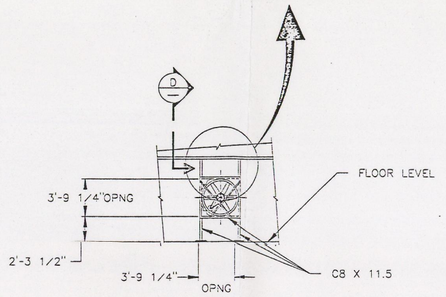
PLAN VIEW
SCALE: 3/32"=1'-0"



SECTION A
SCALE: 3/16"=1'-0"

ASSEMBLE SUPPORT STEEL USING CLIP ANGLES OR WELD IN ACCORDANCE WITH SPEC W016H-C3 SECTION 05500 (3/16" FILLET MINIMUM)

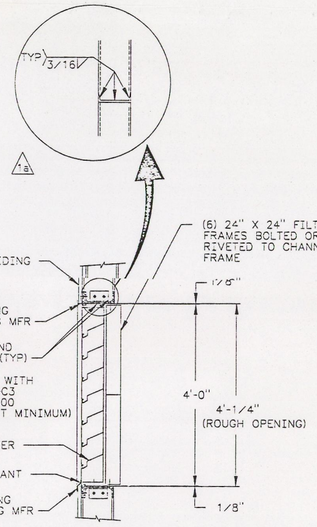




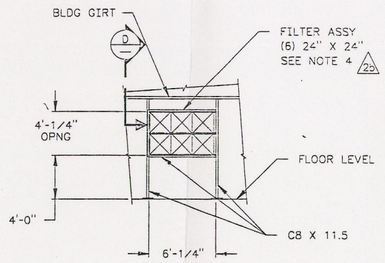
SECTION B
SCALE: 3/16"=1'-0"
TYP 4 PLACES

GENERAL NOTES

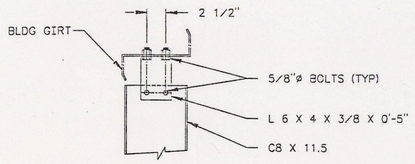
1. SEE SPECIFICATION W-016-C1 FOR EQUIPMENT DESCRIPTION.
2. ALL DIMENSIONS TO BE VERIFIED WITH LOUVER AND EXHAUST FAN REQUIREMENTS.
3. (2a) EXHAUST FANS MAY BE MOVED UP TO 6' IN EITHER DIRECTION TO CLEAR CROSS BRACING.
4. (2b) FILTER THICKNESS AS REQUIRED TO ACHIEVE FILTERING EFFICIENCY.



SECTION E
NTS



SECTION C
SCALE: 3/16"=1'-0"
TYP 8 PLACES



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

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

E.A. VICKERY
Reviewing Official/ADC
Kaiser Engineers Hanford Company
8/16/90
Date

PHASE 3

NUMBER	TITLE	NUMBER	TITLE
		H-2-80894	DWG LIST
DRAWING TRACEABILITY LIST		NEXT USED ON	REFERENCES

REV NO.	DESCRIPTION	REV BY / DATE	KEH APPROVALS	APVD FOR IMPL/CHG FOR DATE
2	AS-BUILT FOR PROJ W-016H b)ECN W016H-108 Z B3,E1 a)ECN W016H-86 Z E2:B-E4	RCC 10/92		
1	a)ECN W016-57 Z C-D2:D-E3	MAX ADT 5/91 / KCA 5/91	RGH 5/91 / WAH 5/91	HEW 5/91

REVISIONS

CAD FILE B080904B — CAD CODE 2J:IBM:ACD2:10.0:NN

		DATE
DRAWN	R G HALE	5-14-90
CHECKED	RD PETERSON	8/90
SAFETY	D LUNDGREN	8/90
ENVIR	R HOLLENBECK	8/90
DE	TC OTEN	8/90
LEAD ENG APVD	RG HALE	8/90
KEH REP		
APPROVED FOR IMPLEMENTATION BY	HF WELSFRY	
FOR	WHC	DATE 9/27/90

IMPACT LEVEL 3 — EDT 125914

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

M HVAC
PLAN, SECT & DETAILS

PROJECT W-016H RMW STORAGE FACILITY

SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403WC	8900	H-2-80904	2

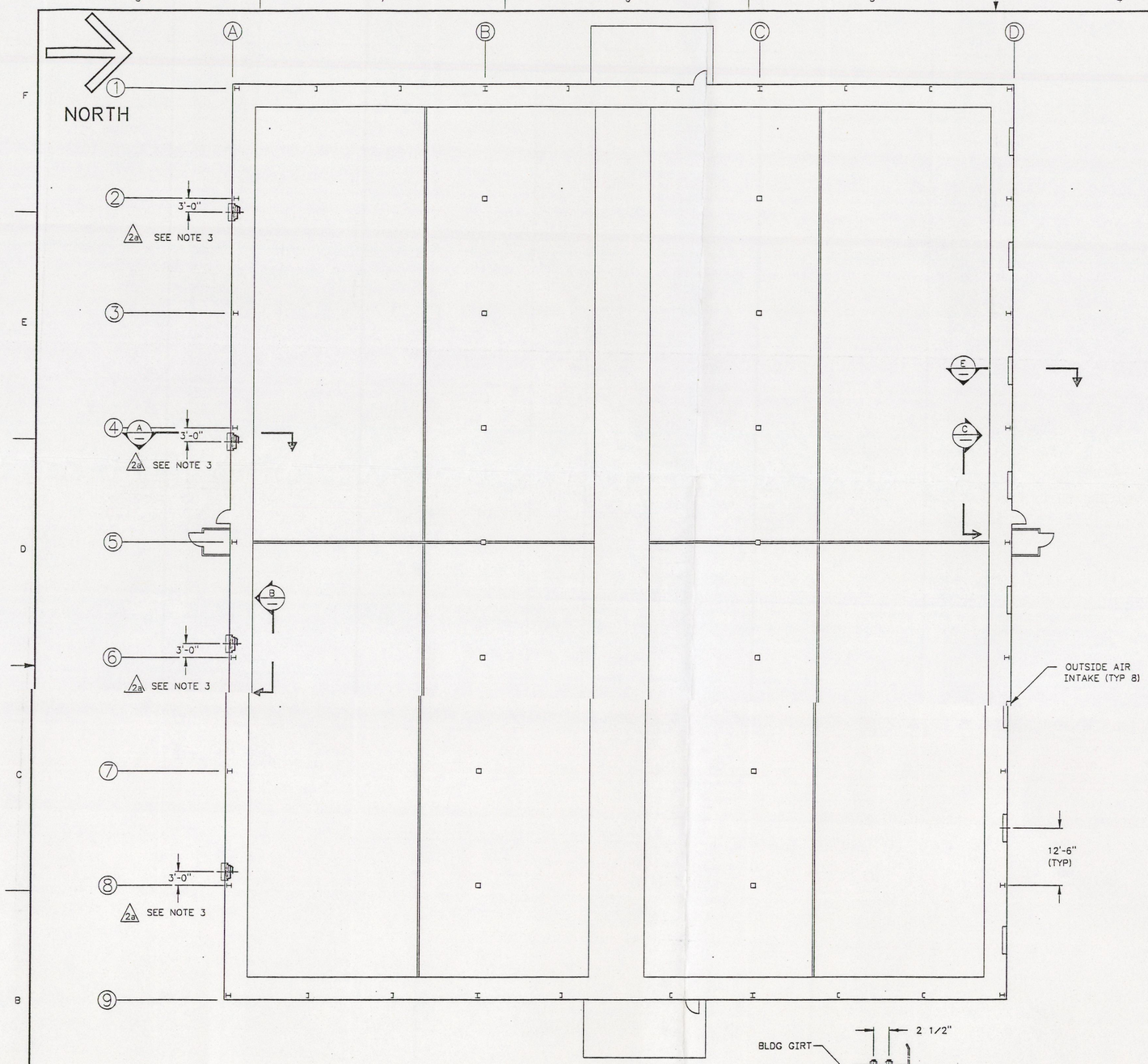
SCALE SHOWN — JOB NO. CR 9265 — SHEET 2 OF 3

KEHCAD

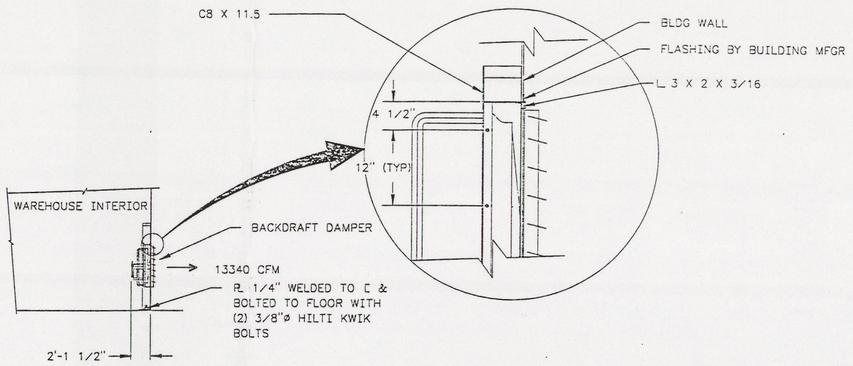
CAUTION
NOT COMPLETE WITHOUT CURRENT STATUS OF OUTSTANDING ECNS FROM DATA BASE

JAN 14 1993

23



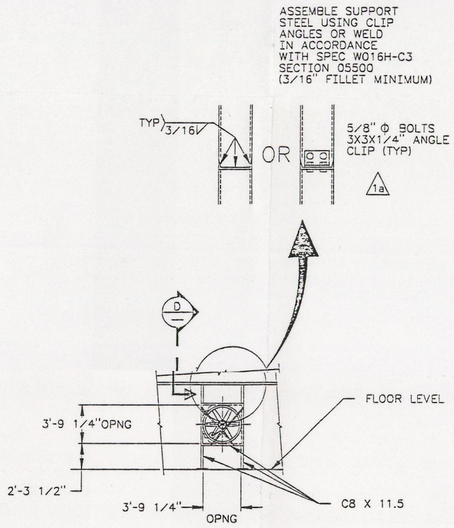
PLAN VIEW
SCALE: 3/32"=1'-0"



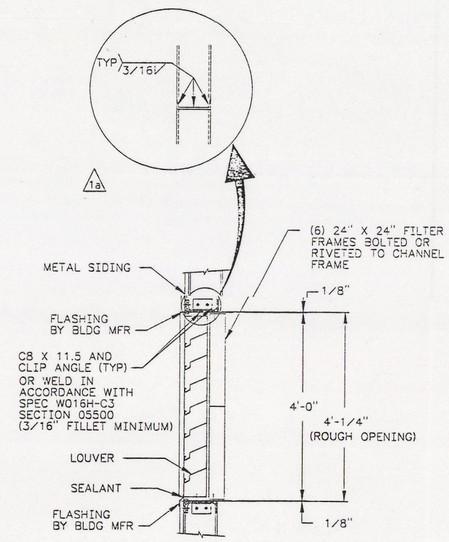
SECTION A
SCALE: 3/16:=1'-0"

GENERAL NOTES

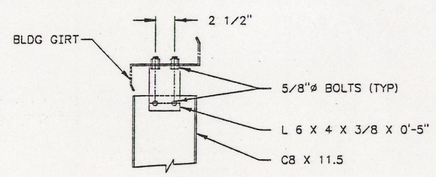
1. SEE SPECIFICATION W-016-C1 FOR EQUIPMENT DESCRIPTION.
2. ALL DIMENSIONS TO BE VERIFIED WITH LOUVER AND EXHAUST FAN REQUIREMENTS.
3. (2a) EXHAUST FANS MAY BE MOVED UP TO 6' IN EITHER DIRECTION TO CLEAR CROSS BRACING.
4. (2b) FILTER THICKNESS AS REQUIRED TO ACHIEVE FILTERING EFFICIENCY.



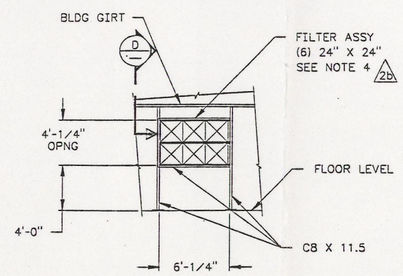
SECTION B
SCALE: 3/16"=1'-0"
TYP 4 PLACES



SECTION E
NTS



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



SECTION C
SCALE: 3/16"=1'-0"
TYP 8 PLACES

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

E.A. VICKERY
Reviewing Official/ADC
Kaiser Engineers Hanford Company
8/16/90
Date

PHASE 4

NUMBER	TITLE	NUMBER	TITLE
DRAWING TRACEABILITY LIST		NEXT USED ON	REFERENCES
		H-2-80894	DWG LIST

MF	REV NO.	DESCRIPTION	REV BY	DATE	KEH APPROVALS			APVD FOR IMPL/IVC FOR DATE
RS	2	AS-BUILT FOR PROJ W-016H b)ECN W016H-108&70 Z B3,D1 a)ECN W016H-86 Z E2:B,D,E8	MAK AOT 5/91	KCA 5/91	RGH 5/91	WAH 5/91	HEW 5/91	
M RS	1	a)ECN W016-57 Z C-D2,3						

REVISIONS

CAD FILE ~~H80904.C~~ CAD CODE ~~2J:IBM:ACD2:10.0:NN~~

DRAWN	R G HALE	DATE 5-14-90	
CHECKED	RD PETERSON	8/90	
SAFETY	D LUNDGREN	8/90	
ENVIR	R HOLLENBECK	8/90	
QE	TC OTEN	8/90	
LEAD ENG APVD	RG HALE	8/90	
KEH REP			
APPROVED FOR IMPLEMENTATION BY	HE WELLSFRY		
FOR	WHC	DATE 9/27/90	

IMPACT LEVEL 3 EDT 125914

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

M HVAC
PLAN, SECT & DETAILS

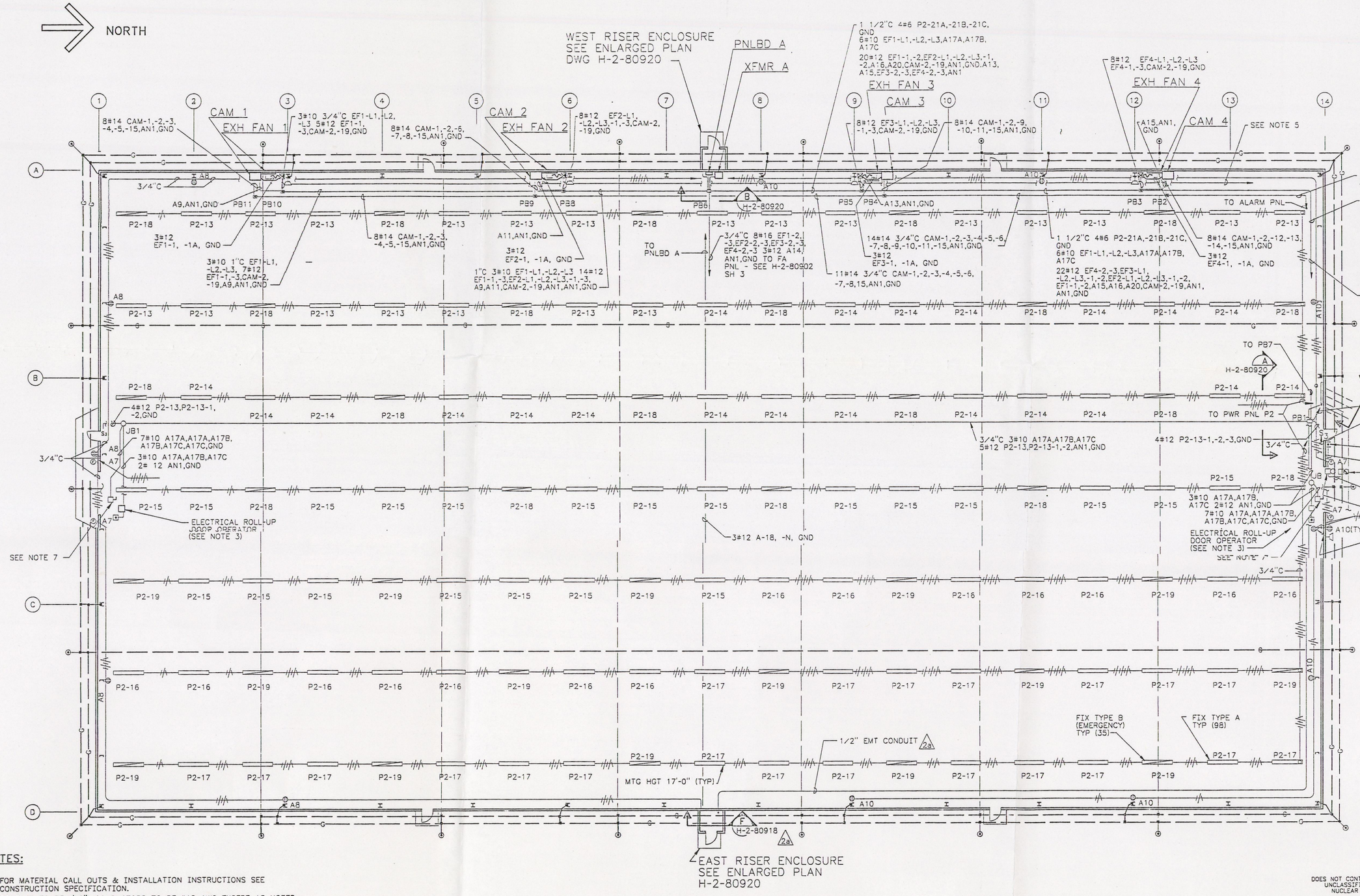
PROJECT W-016H RMW STORAGE FACILITY

SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403WB	8900	H-2-80904	2

SCALE SHOWN JOB NO. CR 9265 SHEET 3 OF 3

KEHCAD

CAUTION
NOT COMPLETE WITHOUT CURRENT STATUS OF OUTSTANDING ECNS FROM DATA BASE
JAN 19 1993



BLDG PLAN
SCALE: 3/32" = 1'-0"

NOTES:

1. FOR MATERIAL CALL OUTS & INSTALLATION INSTRUCTIONS SEE CONSTRUCTION SPECIFICATION.
2. CONDUIT TO BE 1\2", CONDUCTORS TO BE #12 AWG EXCEPT AS NOTED.
3. ELECTRICAL OPERATORS FOR THE ROLL-UP DOORS ARE VENDOR SUPPLIED AND INCLUDE SAFETY INTERLOCKS, LIMIT SWITCHES AND PUSHBUTTON STATION. INSTALLATION SHALL BE AS DIRECTED BY DOOR VENDOR INSTALLATION INSTRUCTIONS WITH DOOR CONTROL PUSHBUTTON STATIONS MOUNTED 5'-0" ABOVE THE FLOOR IMMEDIATELY ADJACENT TO THE DOOR.
4. SEE H-2-80906 SH 2 FOR WIRING OF EXHAUST FAN FIRE ALARM SYSTEM INTERLOCK CIRCUITS.
5. INTERCONNECT 5 SPKRS WITH 2#18 AWG SPKR WIRES (TO PAGING SYS PNL)
6. LIGHTING CIRCUITS A3,A5,A8,A10 ARE TO BE #10 AWG CONDUCTORS.
7. 30 AMP, 3 POLE NONFUSIBLE, HEAVY DUTY, 250VAC, SAFETY SWITCH MOUNTED 5'-0" ABOVE FLOOR ON COLUMN ADJACENT TO THE DOOR.

DRAWING TRACEABILITY LIST

NUMBER	TITLE	REFERENCES
H-7-1275	ELECTRICAL SYMBOL LIST	
H-2-80894	DRAWING LIST	

NEXT USED ON

REV NO.	DESCRIPTION	REV BY / DATE	KEH APPROVALS	APVD FOR IMPLMTNG FOR DATE
2	AS-BUILT FOR PROJ W-016H a) ECN W-016-65 Z B4	10/92		
1	ECN W-016H-101 GENERAL REVISION PER	8CC 7/92	MLA DCA 7/30/92 RJB DKL 7/92 LDS DCA 8/3/92	HEW 8/5/92

REVISIONS

CAD FILE B080917A CAD CODE 2J:IBM:ACD2:10.0:NN

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

REVIEWING OFFICIAL/ADC: R. J. Harman
DATE: 8-15-90

PHASE 2

IMPACT LEVEL 3 | EDT 125914

DRAWN EE COYNE DATE
CHECKED M. L. ALEXANDER 8-15-90
SAFETY D. LUNDGREN 8-17-90
ENVIR R. HOLLENBECK 8-20-90
OE TIMOTHY C. OTEN 8-17-90
LEAD ENG APVD E. E. COYNE 8-15-90

APPROVED FOR IMPLEMENTATION BY H. E. WELLSFRY FOR WHC DATE 9-27-90

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

ELECTRICAL PLAN

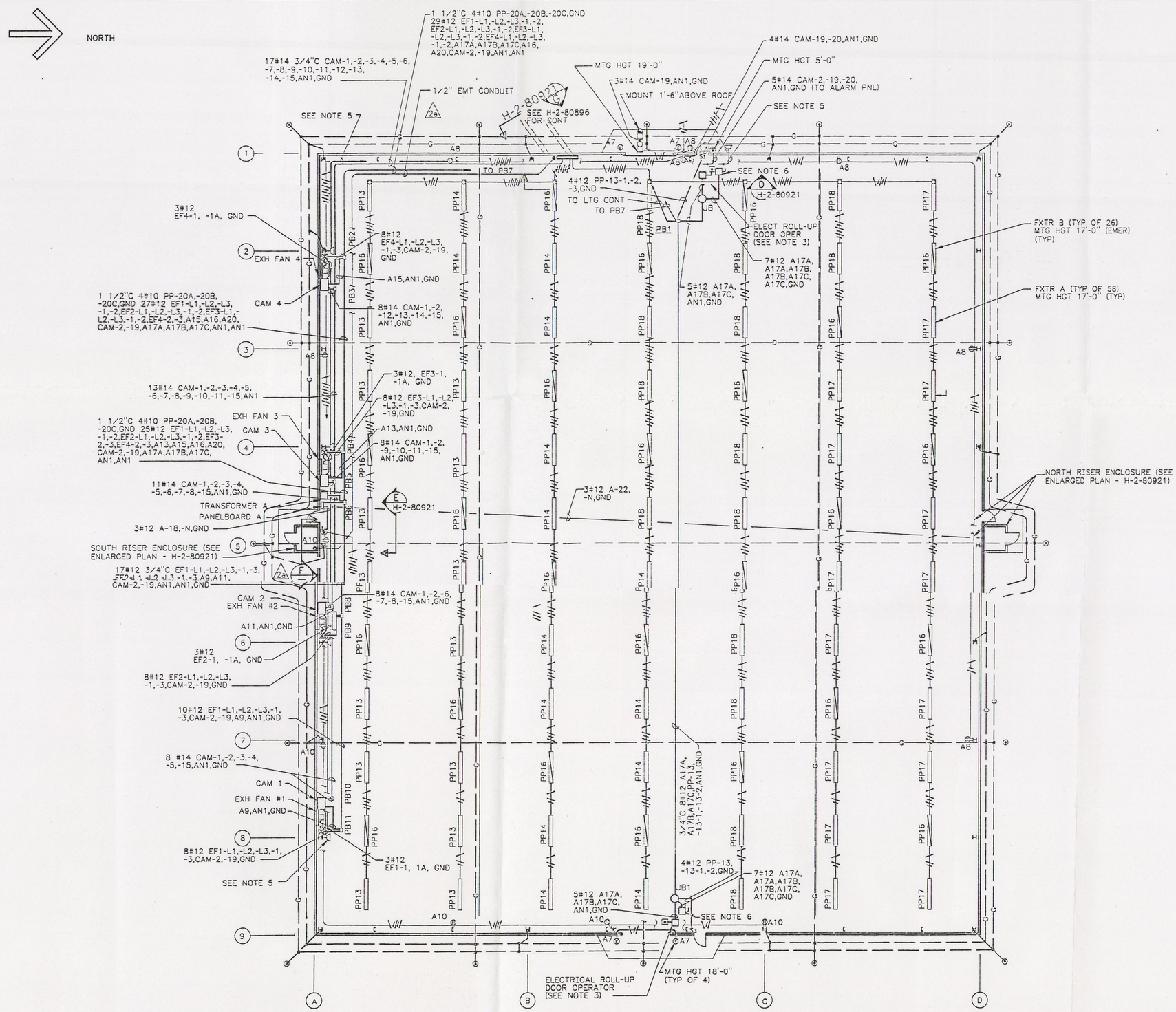
PROJECT W-016H RMW STORAGE FACILITY

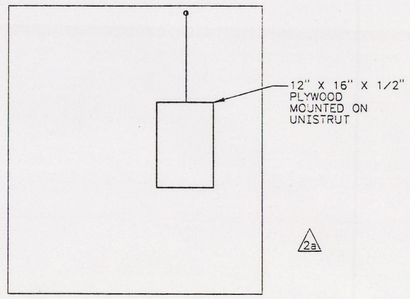
SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403 -WD	7301 7401	H-2-80917	2

SCALE 3/32" = 1'-0" | JOB NO. CR9265 | SHEET 1 OF 1

KEHCAD

CAUTION
NOT COMPLETE WITHOUT
CURRENT STATUS OF OUTSTANDING
ECNS FROM DATA BASE
JAN 14 1993





SECTION F
NTS
H-2-80917, 18, 19

NOTES:

1. FOR MATERIAL CALL OUTS & INSTALLATION INSTRUCTIONS SEE CONSTRUCTION SPECIFICATION.
2. CONDUIT TO BE 1/2", CONDUCTORS TO BE #12 AWG EXCEPT AS NOTED.
3. ELECTRICAL OPERATORS FOR THE ROLL-UP DOORS ARE VENDOR SUPPLIED AND INCLUDE SAFETY INTERLOCKS, LIMIT SWITCHES AND PUSHBUTTON STATION. INSTALLATION SHALL BE AS DIRECTED BY DOOR VENDOR INSTALLATION INSTRUCTION WITH DOOR CONTROL PUSHBUTTON STATIONS MOUNTED 5'-0" ABOVE THE FLOOR IMMEDIATELY ADJACENT TO THE DOOR.
4. SEE H-2-80910 SH 2 FOR WIRING OF EXHAUST FAN FIRE ALARM SYSTEM INTERLOCK CIRCUITS.
5. INTERCONNECT 5 SPKRS WITH 2#18 SPKR WIRES TO PAGING SYS PNL.
6. 30 AMP, 3 POLE, NONFUSIBLE, HEAVY DUTY, 250 VAC, SAFETY SWITCH MOUNTED 5'-0" ABOVE FLOOR ON COLUMN ADJACENT TO THE DOOR.

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

R. J. HARMAN
Reviewing Official/ADC
Kaiser Engineers Hanford Company
8-15-90
Date

PHASE 4

NUMBER	TITLE
H-7-1275	ELECTRICAL SYMBOL LIST
H-2-80894	DRAWING LIST

DRAWING TRACEABILITY LIST — REFERENCES — NEXT USED ON

MF	REV NO.	DESCRIPTION	REV BY / DATE	KEH APPROVALS	APVD FOR IMPL./INC FOR DATE
RS	2	AS-BUILT FOR PROJ W-016H a) ECN W-016-65 Z D,E,1,2,C7,F6	REE 10/92	YCA	
RS	1	ECN W-016H-101 GENERAL REVISION PER	RCC 7/92	WLA SCA 7/30/92	RJB DPL 7/31 LDS DCA 8/3/92 HEW 8/5/92

REVISIONS

CAD FILE B080918A CAD CODE 2J:IBM:ACD2:10.0:NN

DRAWN EE COYNE DATE
CHECKED M. L. ALEXANDER 8-15-90
SAFETY D. LUNDGREN 8-17-90
ENVIR R. HOLLENBECK 8-20-90
QC TIMOTHY C. OTEN 8-17-90
LEAD ENG APVD E. E. COYN 8-15-90

APPROVED FOR IMPLEMENTATION BY H. E. WELLSFRY FOR WHC DATE 9-27-90

IMPACT LEVEL 3 EDT 125914

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

ELECTRICAL PLAN

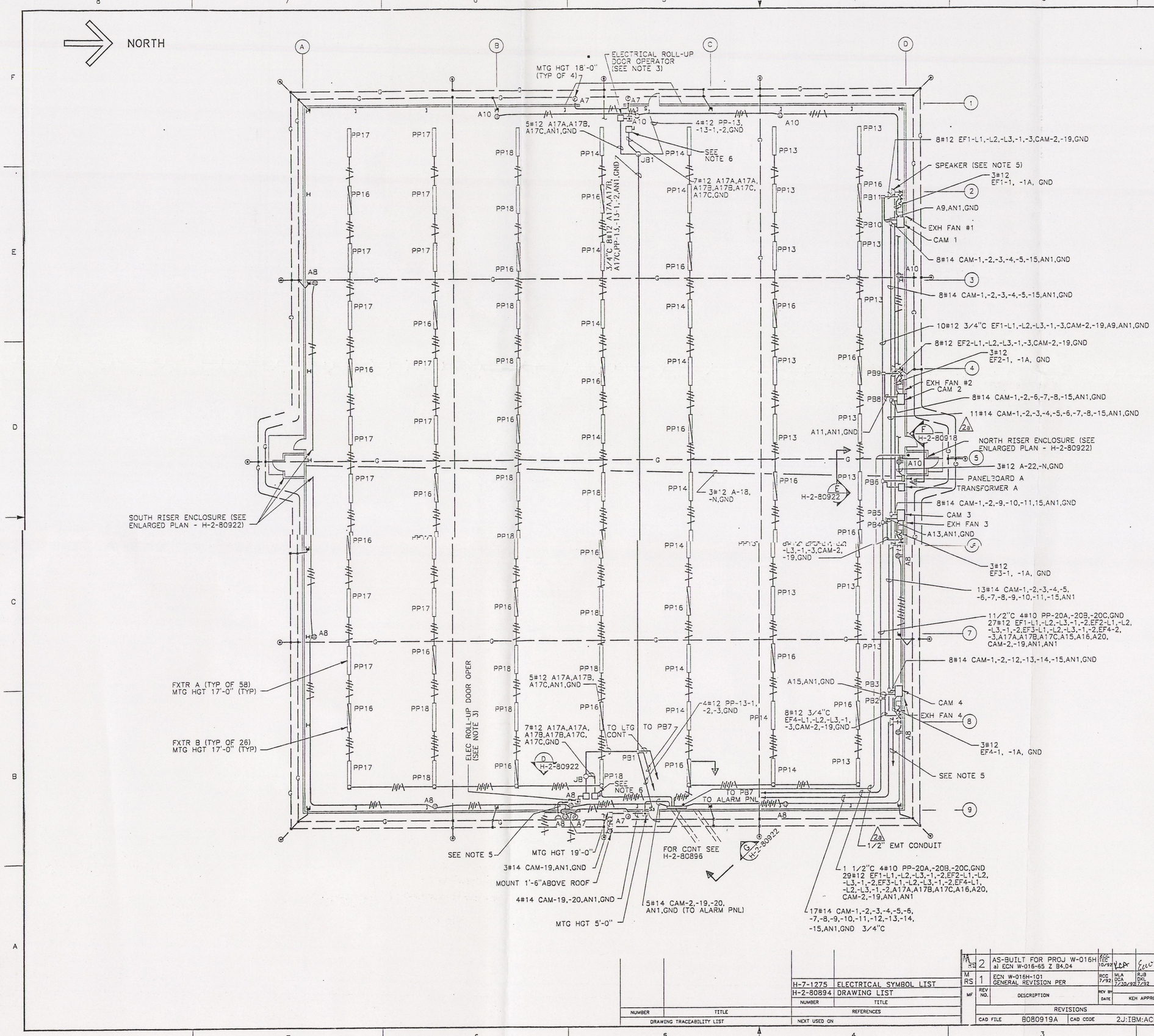
PROJECT W-016H RMW STORAGE FACILITY

SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403 -WB	7301 7401	H-2-80918	2

SCALE 3/32" = 1'-0" JOB NO. CR9265 SHEET 1 OF 1

KEHCAD

CAUTION
NOT COMPLETE WITHOUT CURRENT STATUS OF OUTSTANDING ECNS FROM DATA BASE
JAN 14 1993



NOTES:

1. FOR MATERIAL CALL OUTS & INSTALLATION INSTRUCTIONS SEE CONSTRUCTION SPECIFICATION.
2. CONDUIT TO BE 1/2", CONDUCTORS TO BE #12 AWG EXCEPT AS NOTED.
3. ELECTRICAL OPERATORS FOR THE ROLL-UP DOORS ARE VENDOR SUPPLIED AND INCLUDE SAFETY INTERLOCKS, LIMIT SWITCHES AND PUSHBUTTON STATION. INSTALLATION SHALL BE AS DIRECTED BY DOOR VENDOR INSTALLATION INSTRUCTION WITH DOOR CONTROL PUSHBUTTON STATIONS MOUNTED 5'-0" ABOVE THE FLOOR IMMEDIATELY ADJACENT TO THE DOOR.
4. SEE H-2-80908 FOR WIRING OF EXHAUST FAN FIRE ALARM SYSTEM INTERLOCK CIRCUITS.
5. INTERCONNECT 5 SPKRS WITH 2#18 SPKR WIRES TO PAGING SYS PNL.
6. 30 AMP, 3 POLE, NONFUSIBLE, HEAVY DUTY, 250 VAC, SAFTEY SWITCH MOUNTED 5'-0" ABOVE FLOOR ON COLUMN ADJACENT TO THE DOOR.

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

R. J. HARMAN
Reviewing Official/ADC
Kaiser Engineers Hanford Company
8-15-90
Date

NUMBER	TITLE
H-7-1275	ELECTRICAL SYMBOL LIST
H-2-80894	DRAWING LIST

DRAWING TRACEABILITY LIST — REFERENCES — NEXT USED ON

MF	REV NO.	DESCRIPTION	REV BY	DATE	KEH APPROVALS	APVD FOR IMPL/INC FOR DATE
RS	2	AS-BUILT FOR PROJ W-016H a) ECN W-016-65 Z B4.D4	RCC RCC	10/92		
M	1	ECN W-016H-101 GENERAL REVISION PER	RCC MLA RJB LDS HEW	7/92 DCA DHE DCA 8/3/92	7/30/92 7/92 8/3/92	8/5/92

REVISIONS

CAD FILE 8080919A — CAD CODE 2J:IBM:ACD2:10.0:NN

DRAWN EE COYNE DATE
CHECKED L. ALEXANDER 8-15-90
SAFETY D. LUNDGREN 8-17-90
CNTR R. HOLLENBECK 8-20-90
OC TIMOTHY C. OTEN 8-17-90
LEAD ENG APVD F. E. COYNE 8-15-90

APPROVED FOR IMPLEMENTATION BY H. E. WELLSFRY FOR WHC DATE 9-27-90

PHASE 3

IMPACT LEVEL 3 — EDT 125914

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

ELECTRICAL PLAN

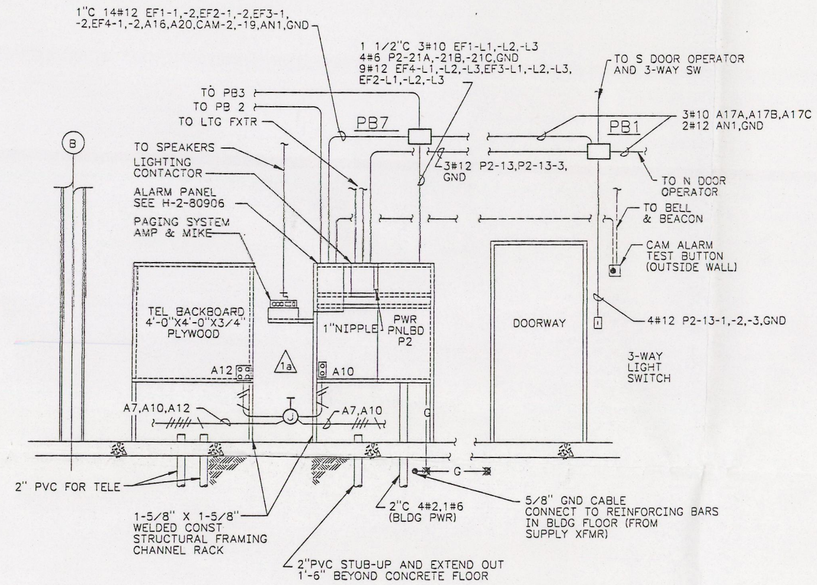
PROJECT W-016H RMW STORAGE FACILITY

SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403 -WC	7301 7401	H-2-80919	2

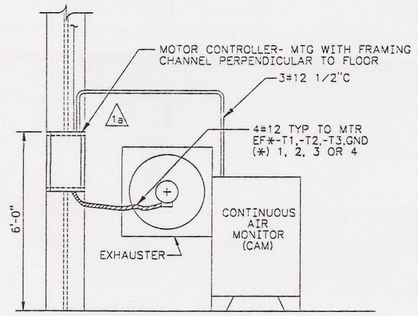
SCALE 3/32" = 1'-0" — JOB NO. CR9265 — SHEET 1 OF 1

KEHCAD

CAUTION
NOT COMPLETE WITHOUT CURRENT STATUS OF OUTSTANDING ECNS FROM DATA BASE
JAN 14 1993

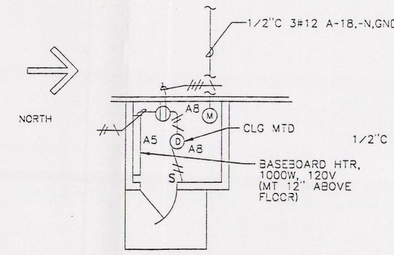


ELEVATION (A) H-2-80917
SCALE: 1/2" = 1'-0"

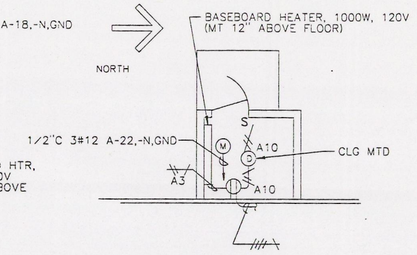


ELEVATION - CAM 3 & 4
COL 9 & 12
SCALE: 1/2" = 1'-0"

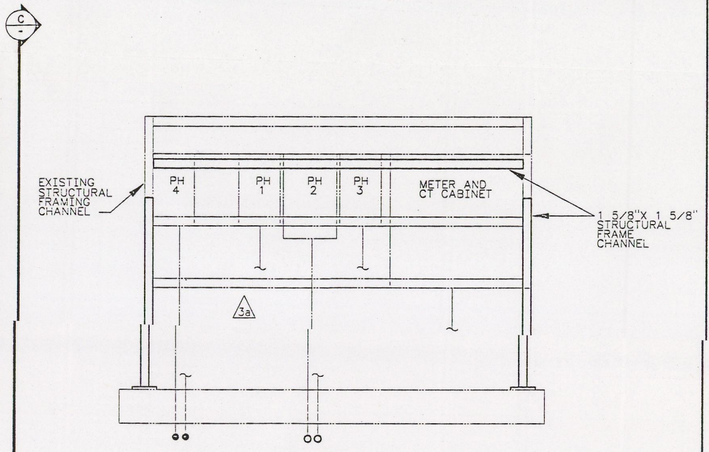
ELEVATION - CAM 1 & 2
COL 3 & 6
OPPOSITE HAND



ENLARGED PLAN
EAST RISER ENCLOSURE
SCALE:NONE



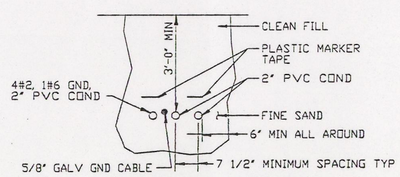
ENLARGED PLAN
WEST RISER ENCLOSURE
SCALE:NONE



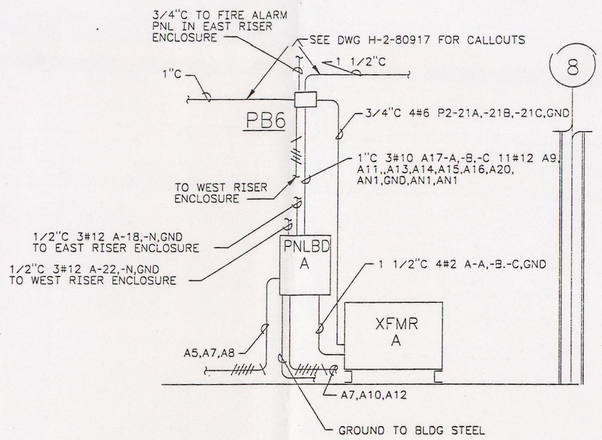
MAIN DISCONNECT SWITCH RACK
S.E. CORNER OF 2403 WA

NOTES:

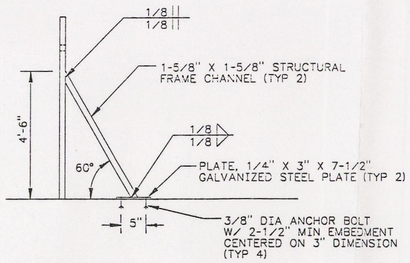
1. FOR MAIN BUILDING PLAN SEE H-2-80917.
2. STRUCTURAL FRAME CHANNEL ADDED TO EXISTING MAIN DISCONNECT SWITCH RACK.



SECTION (G) H-2-80917
SCALE: NONE



ELEVATION (B) H-2-80917
SCALE: 1/4" = 1'-0"



SECTION (C) -
SCALE: NONE
SEE NOTE 2

REVIEWING OFFICIAL/ADC: R.J. HARMAN
DATE: 8-15-90

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

PHASE 2

NUMBER	TITLE	NUMBER	TITLE
		H-2-80894	DRAWING LIST
DRAWING TRACEABILITY LIST		NEXT USED ON	REFERENCES

REV NO.	DESCRIPTION	REV BY / DATE	KEH APPROVALS	APVD FOR IMPL/INC FOR DATE
3	AS-BUILT FOR PROJ W-016H b) ECN W-016H-108 Z A6,7 D.E3,4 a) ECN W-016-94 Z C, D2	Rec TEC 10/92	EGA, EGW, WHK, HEW	
2	ECN-W016H-101 GENERAL REVISION PER	DXS 7-92	MLA DCA 7/30/92, RJB DKL 7/92, LDS DCA 8/3/92, HEW 8/3/92	
1	C-D1-3 b) ECN W016-53 Z B1,2:B3-4: a) ECN W016-53 Z D,E7,8,E5	MAK ADT 5-91 DJ 5-91 KEW 4-91, KCA 5-30-91	MLA 5-29-91, WAH 5-30-91, HEW 5-30-91	

REVISIONS

CAD FILE B080920A | CAD CODE 2J:IBM:ACD2:10.0:NN

DRAWN E.E. COYNE	DATE 8-15-90
CHECKED M. ALEXANDER	8-15-90
SAFETY D. LUNDGREN	8-17-90
ENVIR R. HOLLENBECK	8-20-90
QE T.C. OTEN	8-17-90
LEAD ENG APVD ED COYNE	8-15-90
APPROVED FOR IMPLEMENTATION BY H.E. WELLSERY FOR WHC	DATE 9-27-90

IMPACT LEVEL 3 | EDT 125914

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

M — ELECTRICAL ELEVATIONS & DETAILS

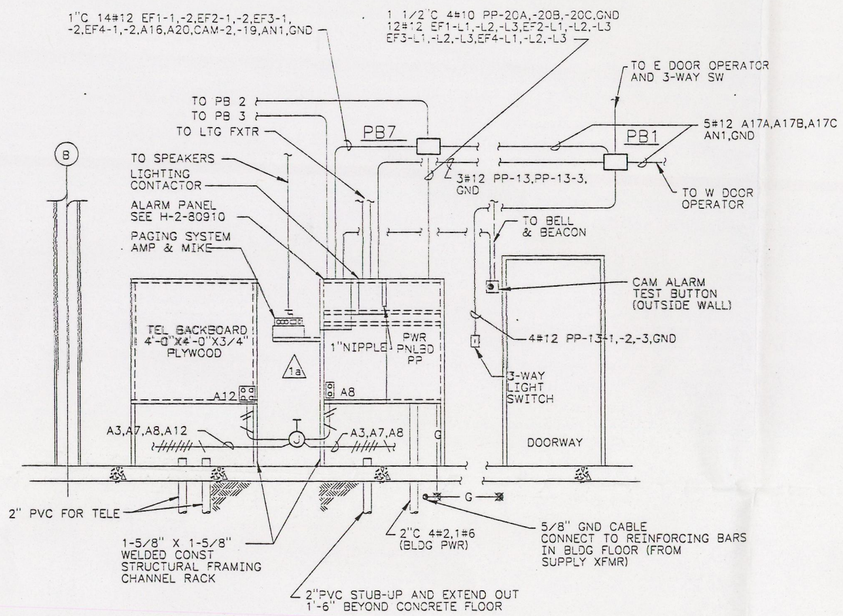
PROJECT W-016H RMW STORAGE FACILITY

SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403-WD	7301	H-2-80920	3

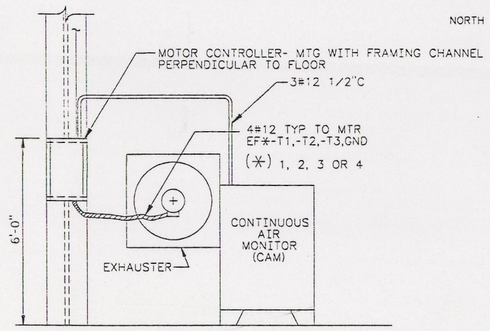
SCALE SHOWN | JOB NO. CR9265 | SHEET 1 OF 1

KEHCAD

CAUTION
NOT COMPLETE WITHOUT CURRENT STATUS OF OUTSTANDING ECNS FROM DATA BASE
JAN 14 1993

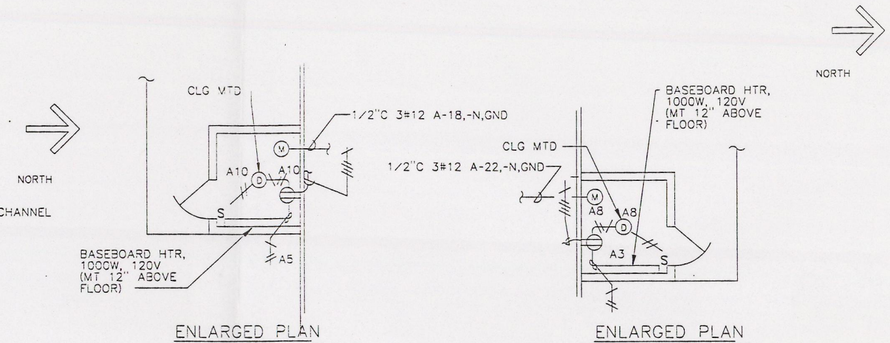


ELEVATION (D) H-2-80918
SCALE: 1/2" = 1'-0"



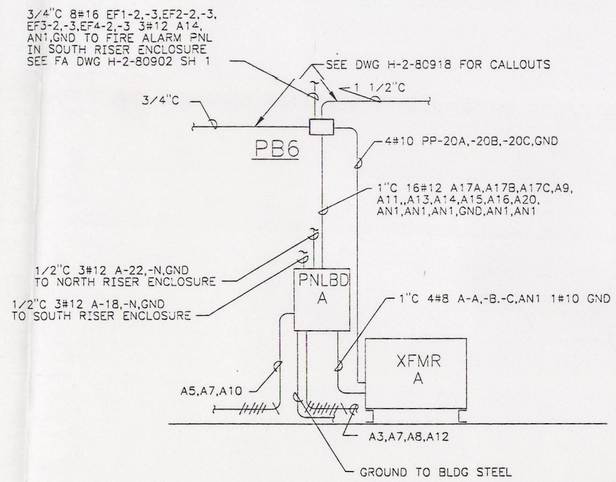
ELEVATION - CAM 1 & 2
COL 8 & 6
SCALE: 1/2" = 1'-0"

ELEVATION - CAM 3 & 4
COL 4 & 2
OPPOSITE HAND

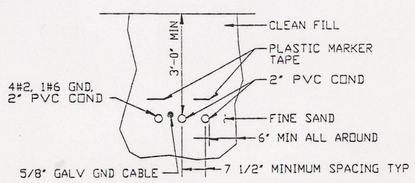


ENLARGED PLAN
SOUTH RISER ENCLOSURE
SCALE:NONE

ENLARGED PLAN
NORTH RISER ENCLOSURE
SCALE:NONE



ELEVATION (E) H-2-80918
SCALE: 1/4" = 1'-0"



SECTION (G) H-2-80918
SCALE: NONE

NOTES:

1. FOR MAIN BUILDING PLAN SEE H-2-80918.

REVIEWING OFFICIAL/ADC: R.J. HARMAN
DATE: 8-15-90

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

PHASE 4

NUMBER	TITLE
H-7-1275	ELECTRICAL SYMBOL LIST
H-2-80894	DRAWING LIST

DRAWING TRACEABILITY LIST — NEXT USED ON

REV NO.	DESCRIPTION	REV BY / DATE	KEH APPROVALS	APVD FOR IMPL/INC FOR DATE
3	AS-BUILT FOR PROJ W-016H b) ECN W-016H-108 Z C-E, 1-4 a) ECN W-016H-108 Z A3	R&C TEC 10-92		
2	ECN-W016H-101 GENERAL REVISION PER	DXS 7-92	MLA DCA 7/30/92; RJB DKL 7/92; LS DCA 8/3/92; HEW 8/5/92	
1	a) ECN W016-53 Z E7, E5	DG EEW 4-91	KCA 5-30-91; MLA 5-8-91; WAH 5-30-91; HEW 5-30-91	

REVISIONS

CAD FILE B080921A — CAD CODE 2J:IBM:ACD2:10.0:NN

DRAWN E.E. COYNE DATE
CHECKED M ALEXANDER 8-15-90
SAFETY D LUNDGREN 8-17-90
CNVIR R. HOLLENBECK 8-20-90
QE T.C. OTEN 8-17-90
LEAD ENG APVD ED COYNE 8-15-90

APPROVED FOR IMPLEMENTATION BY H.E. WELLSFRY FOR WHC DATE 9-29-90

IMPACT LEVEL 3 — EDT 125914

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

M ELECTRICAL ELEVATIONS & DETAILS

PROJECT W-016H RMW STORAGE FACILITY

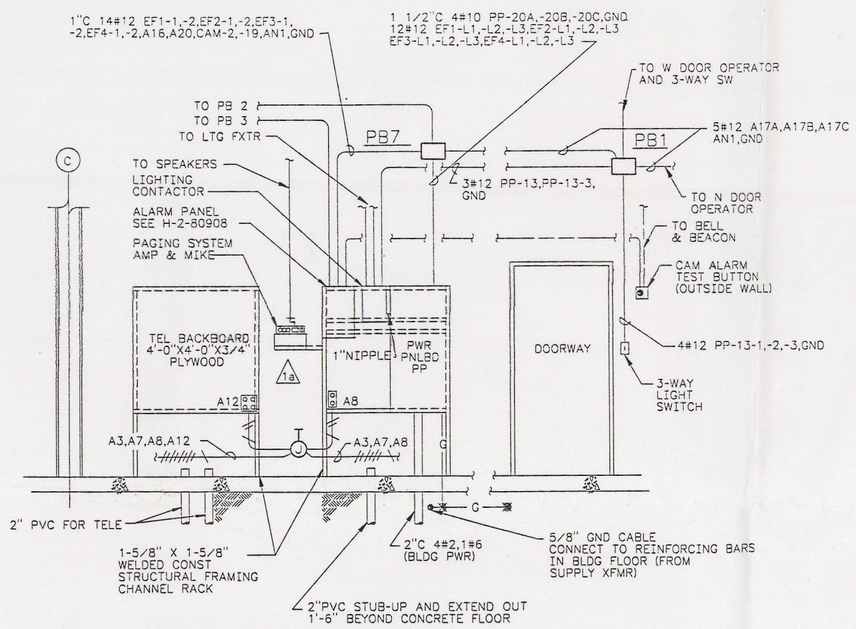
SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403-WB	7301	H-2-80921	3

SCALE SHOWN — JOB NO. CR9265 — SHEET 1 OF 1

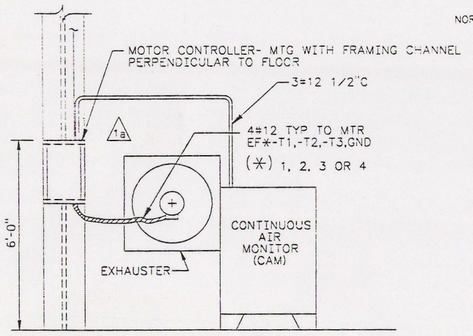
KEHCAD

CAUTION
NOT COMPLETE WITHOUT CURRENT STATUS OF OUTSTANDING ECNS FROM DATA BASE

23 JAN 14 1993

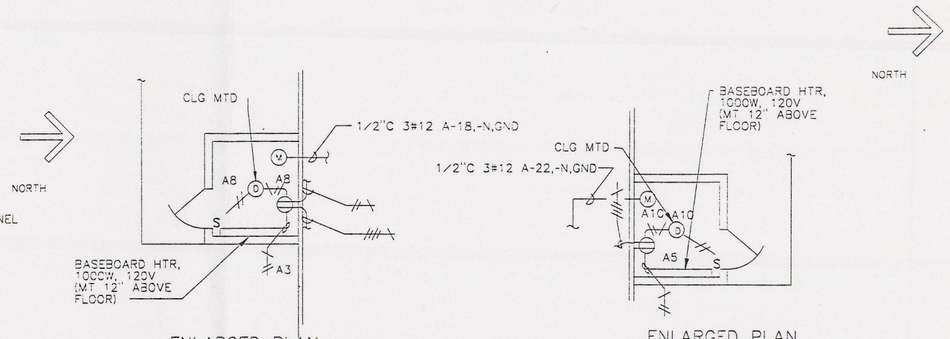


ELEVATION (D / H-2-80919)
SCALE: 1/2" = 1'-0"



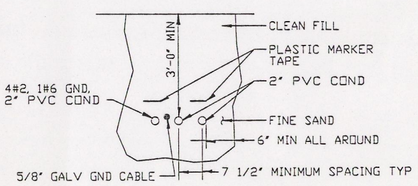
ELEVATION - CAM 1 & 2
COL 2 & 4
SCALE: 1/2" = 1'-0"

ELEVATION - CAM 3 & 4
COL 6 & 8
OPPOSITE HAND

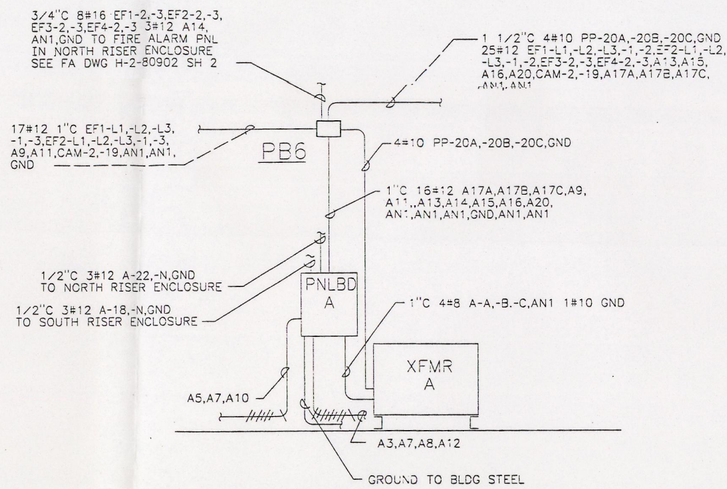


ENLARGED PLAN
SOUTH RISER ENCLOSURE
SCALE:NONE

ENLARGED PLAN
NORTH RISER ENCLOSURE
SCALE:NONE



SECTION (G / H-2-80919)
SCALE: NONE



ELEVATION (E / H-2-80919)
SCALE: 1/4" = 1'-0"

NOTES:

1. FOR MAIN BUILDING PLAN SEE H-2-80919.

REVIEWING OFFICIAL/ADC: R.J. HARMAN
DATE: 8-15-90

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

PHASE 3

REV NO.	DESCRIPTION	REV BY DATE	KEH APPROVALS			APVD FOR IMPL/INC FOR GATE
M RS 3	AS-BUILT FOR PROJ W-016H b) ECN W-016H-108 Z C-D, 1-4 a) ECN W-016H-108 Z A3	RCC TEC 10-92	KCA	GCW	WWK	7/15/92
M RS 2	ECN-W016H-101 GENERAL REVISION PER	DXS 7-92	MLA RCA 7/30/92	RJB DVL 7/92	LS DCA 8/3/92	HEW 8/3/92
M RS 1	a) ECN W016-53 Z E5,E7	DG EEW 4-91	KCA 5-30-91	MLA 5-8-91	WAH 5-30-91	HEW 5-30-91

REVISIONS

CAD FILE B080922A | CAD CODE 2J:IBM:ACD2:10.0:NN

NUMBER	TITLE
H-7-1275	ELECTRICAL SYMBOL LIST
H-2-80894	DRAWING LIST

DRAWING TRACEABILITY LIST — NEXT USED ON

		DATE
DRAWN	E.E. COYNE	8-15-90
CHECKED	M. ALEXANDER	8-15-90
SAFETY	D LUNDGREN	8-17-90
ENVIR	R HOLLENBACK	8-20-90
DE	T.C. OTEN	8-17-90
LEAD ENG APVD	ED COYNE	8-15-90

APPROVED FOR IMPLEMENTATION BY H.E. WELLSFRY FOR WHC DATE 9-27-90

IMPACT LEVEL 3 | EDT 125914

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

M ELECTRICAL ELEVATIONS & DETAILS

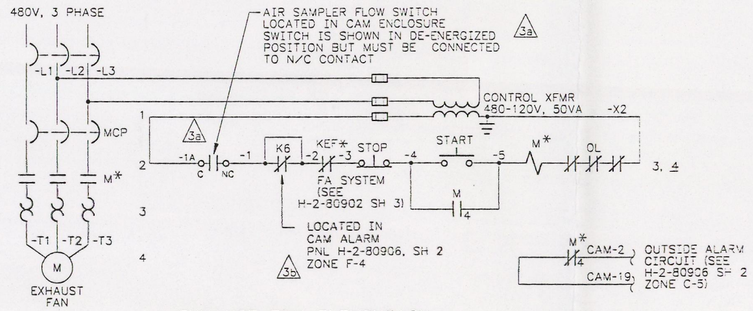
PROJECT W-016H RMW STORAGE FACILITY

SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO.
F	2403-WC	7301	H-2-80922	3

SCALE SHOWN | JOB NO. CR9265 | SHEET 1 OF 1

KEHCAD

CAUTION
NOT COMPLETE WITHOUT
CURRENT STATUS OF OUTSTANDING
ECNS FROM DATA BASE
23 JAN 14 1993



EXHAUST FAN ELEMENTARY

TYPICAL OF 4 - PREFIX WIRE NO W/EXH FAN NO. (EF1 THRU EF4)

* - INDICATES EXHAUST FAN NUMBER

PANELBOARD A LOCATION W WALL BET COL 7-8 VOLTS 120/208VAC 3PH, 4W

MFG & TYPE SQ D NQOD POWER SUPPLIED FROM 30KVA XFMR A

CKT BRKR TYPE BOLT-ON

NEMA TYPE ENCL 1

☒ SURFACE MOUNTED ☐ FLUSH MOUNTED

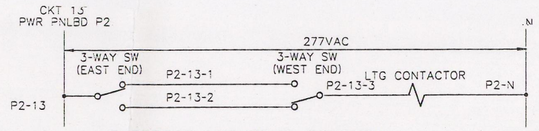
☒ MAIN CKT BRKR ☐ MAIN LUGS ONLY ☐ TOP ☒ BOT

☐ PANELBOARD GROUND FAULT PROTECTION ☒ GROUND BUS

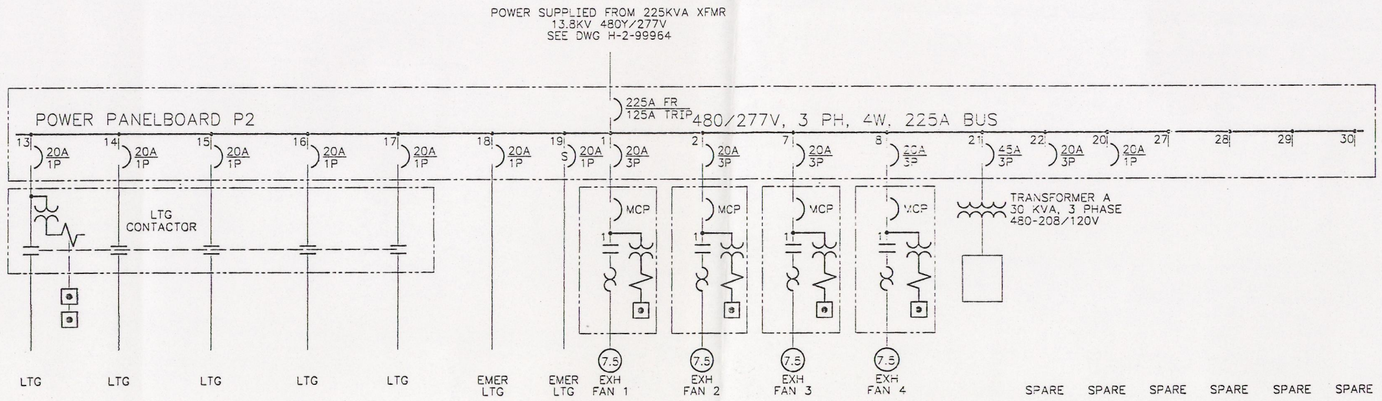
100A AMP BUS 100A AMP NEUT

SERVICE	VA	NO.	NO.	VA	SERVICE
SPARE		1	2		SPARE
W RISER ENCL HTR	1000	3			
E RISER ENCL HTR	1000	5	6		SPARE
EXTERIOR LTG N & S	540	7	8	1180	CONVENIENCE OUTLETS
CAM 1	1800	9	10	1900	CONVENIENCE OUTLETS
CAM 2	1800	11	12	360	TEL BACKBOARD RCPT
CAM 3	1800	13	14		FIRE ALARM SYS
CAM 4	1800	15	16	530	CAM ALARM PANEL
MOTOR OPERATED DOORS	1500	17	18	1127	FA AIR CPRSR EAST
			20	530	CAM ALARM PANEL
			22	1127	FA AIR CPRSR WEST
SPACE		23	24		SPACE

ALL CIRCUIT BREAKERS ARE 20A UNLESS OTHERWISE NOTED
G = GROUND FAULT INTERRUPTER BREAKER
* = CIRCUIT BREAKER WITH LOCKING DEVICE



INTERIOR LIGHTING CONTROL



ONE-LINE DIAGRAM

(CIRCUIT 18 & 19 CIRCUIT BREAKER SHALL BE APPROVED FOR SWITCHING DUTY)

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

R.J. HARMAN
Reviewing Official/ADC
Kaiser Engineers Hanford Company
8-15-90
Date

PHASE 2

NUMBER	TITLE	REFERENCES
H-7-1275	ELECTRICAL SYMBOL LIST	
H-2-80894	DRAWING LIST	

DRAWING TRACEABILITY LIST — NEXT USED ON

MF	REV NO.	DESCRIPTION	REV BY / DATE	KEH APPROVALS			APVD FOR IMPL/INC FOR DATE
M RS	3	AS-BUILT FOR PROJ W-016H a) ECN W016H-108 Z E6 a) ECN W-016H-106 Z E7,F8	EE COYNE 10/92	KEH	EEO	WAH	HEW
M RS	2	ECN W016H-101 GENERAL REVISION PER	CXS 7-92	MLA DCA 7/30/92	RJB DXL 7/92	LDS DCA 8/23/92	HEW 8/5/92
M RS	1	a) ECN W016-59 Z E7	DG EEW 4-91	KCA 5-30-91	MLA 5-8-91	WAH 5-30-91	HEW 5-30-91

REVISIONS

CAD FILE B080923A CAD CODE 2J:IBM:ACD2:10.0:NN

APPROVED FOR IMPLEMENTATION BY H.E. WELLSFRY FOR WHC DATE 9-27-90

DRAWN EE COYNE DATE
CHECKED ML ALEXANDER 6-21-90
SAFETY D LUNDGREN 6-27-90
ENVIR R HOLLENBECK 6-28-90
DE T.C. OTEN 6-28-90
LEAD ENG APVD ED COYNE 6-21-90

IMPACT LEVEL 3 EDT 125914

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

M ELECTRICAL DIAG - PNLBD SCHED

PROJECT W-016H RMW STORAGE FACILITY

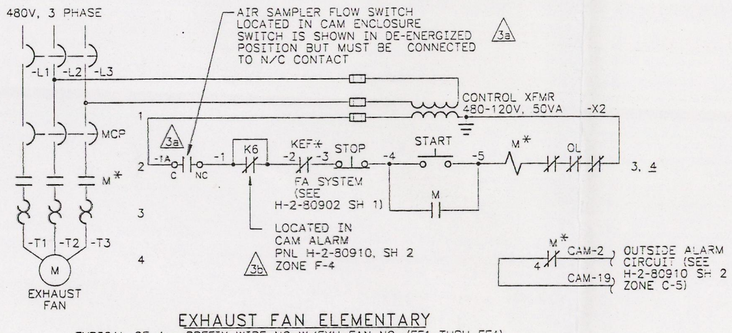
SIZE F | BLDG NO. 2-03 -WD | SYSTEM NO. 7201 7304 | DWG NO. H-2-80923 | REV NO. 3

SCALE NONE JOB NO. CR9265 SHEET 1 OF 1

KEHCAD

CAUTION
NOT COMPLETE WITHOUT
CURRENT STATUS OF OUTSTANDING
ECNS FROM DATA BASE

23 JAN 14 1993



EXHAUST FAN ELEMENTARY

TYPICAL OF 4 - PREFIX WIRE NO W/EXH FAN NO. (EF1 THRU EF4)

* - INDICATES EXHAUST FAN NUMBER

PANELBOARD A LOCATION RMW STOR FAC S WALL VOLTS 120/208Y VAC 3PH, 4W

MFG & TYPE SQ D NQOD POWER SUPPLIED FROM 15KVA XFMR A

CKT BRKR TYPE

NEMA TYPE ENCL

☒ SURFACE MOUNTED ☐ FLUSH MOUNTED

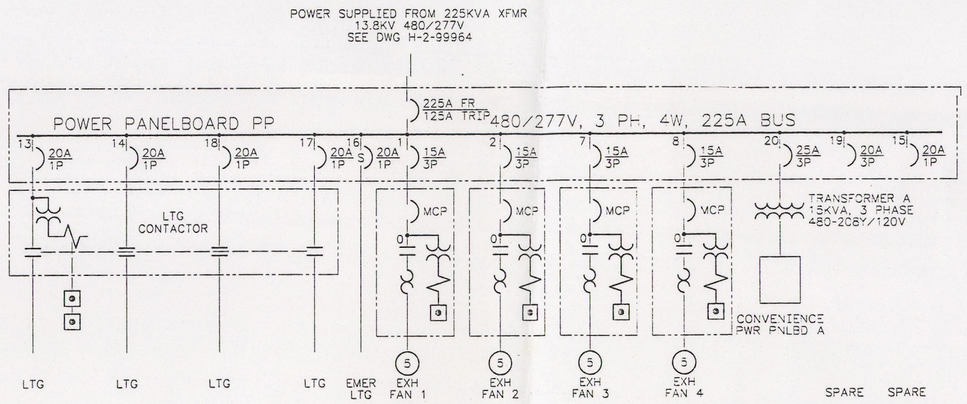
☒ MAIN CKT BRKR ☐ MAIN LUGS ONLY ☐ TOP ☒ BOT

☐ PANELBOARD GROUND FAULT PROTECTION ☒ GROUND BUS

100A AMP BUS 100A AMP NEUT

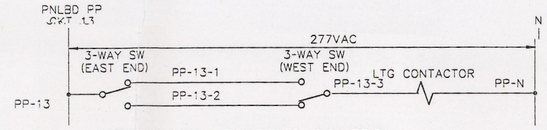
SERVICE	VA	NO.	NO.	VA	SERVICE
SPARE		1	2		SPARE
N RISER ENCL HTR	1000	3			
S RISER ENCL HTR	1000	5	6		SPARE
EXTERIOR LTG E & W	540	7	8	1720	CONVENIENCE OUTLETS (WEST END)
CAM 1	1045	9	10	1180	CONVENIENCE OUTLETS (EAST END)
CAM 2	1045	11	12	360	TEL BACKBOARD RCPT
CAM 3	1045	13	14		FIRE ALARM SYS
CAM 4	1045	15	16	530	CAM ALARM PANEL
MOTOR OPERATED DOORS	1500	17	18	1127	FA AIR CPRSR SOUTH
			20	530	CAM ALARM PANEL
			22	1127	FA AIR CPRSR NORTH
SPACE		23	24		SPACE

ALL CIRCUIT BREAKERS ARE 20A UNLESS OTHERWISE NOTED
G = GROUND FAULT INTERRUPTER BREAKER
* = CIRCUIT BREAKER WITH LOCKING DEVICE



ONE-LINE DIAGRAM

(CIRCUIT 16 CIRCUIT BREAKER SHALL BE APPROVED FOR SWITCHING DUTY)



INTERIOR LIGHTING CONTROL

DOES NOT CONTAIN CLASSIFIED OR UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION

R.J. HARMAN
Reviewing Official/ADC
Kaiser Engineers Hanford Company
8-15-90
Date

PHASE 4

MF	REV NO.	DESCRIPTION	REV BY / DATE	KEH APPROVALS	APVD FOR IMPL/INC FOR DATE
SS	3	AS-BUILT FOR PROJ W-016H b) ECN W-016H-108 Z E6, 7 a) ECN W-016H-108 Z E7,E8	KCC TEC 10/92	EEC	
MRS	2	ECN W016H-101 GENERAL REVISION PER	DXS 7-92	MLA DCA 7/30/92	RJB DKL 7/92	LOS DCA 8/3/92	HEW 8/3/92
MRS	1	a) ECN W016-59 Z E6,7	DG EEW 4-91	KCA 5-30-91	MLA 5-8-91	WAH 5-30-91	HEW 5-30-91

REVISIONS

CAD FILE B080924A CAD CODE 2J:IBM:ACD2:10.0:NN

NUMBER	TITLE
H-7-1275	ELECTRICAL SYMBOL LIST
H-2-80894	DRAWING LIST

DRAWING TRACEABILITY LIST — NEXT USED ON

REFERENCES

APPROVED FOR IMPLEMENTATION BY H.E. WELLSFRY FOR WHC DATE 9-27-90

DRAWN EE COYNE 8-15-90
CHECKED M ALEXANDER 8-15-90
SAFETY D LUNDGREN 8-17-90
ENVIR R HOLLENBECK 8-20-90
QE T.C. OTEN 8-17-90
LEAD ENG APVD ED COYNE 8-15-90

IMPACT LEVEL 3 EDT 125914

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

M ELECTRICAL
DIAG - PNLBD SCHED

PROJECT W-016H RMW STORAGE FACILITY

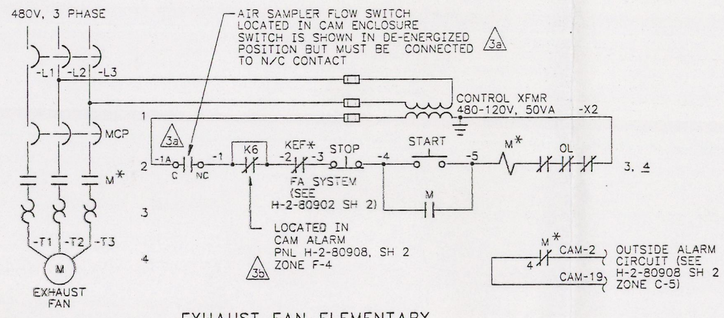
SIZE F | BLDG NO. 2403 -WB | INDEX NO. 7201 7304 | DWG NO. H-2-80924 | REV NO. 3

SCALE NONE | JOB NO. CR9265 | SHEET 1 OF 1

KEHCAD

CAUTION
NOT COMPLETE WITHOUT
CURRENT STATUS OF OUTSTANDING
ECNS FROM DATA BASE

23 JAN 14 1993



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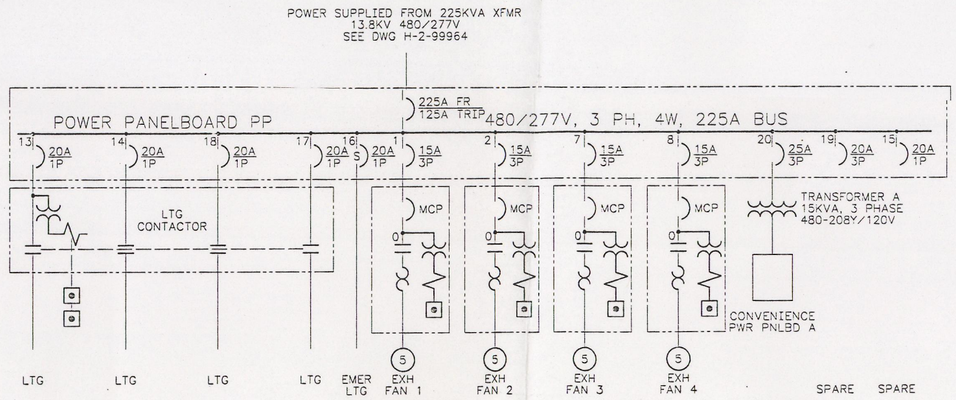

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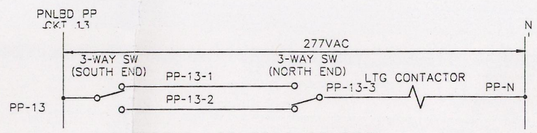

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R.J. HARMAN
Reviewing Official/ADC
Kaiser Engineers Hanford Company
8-15-90
Date

PHASE 3

H-7-1275	ELECTRICAL SYMBOL LIST	
H-2-80894	DRAWING LIST	

NUMBER	TITLE	REFERENCES
DRAWING TRACEABILITY LIST		NEXT USED ON

REV NO.	DESCRIPTION	REV BY / DATE	KEH APPROVALS			APVD FOR IMPL/INC FOR DATE
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2	ECN W-016H-101 GENERAL REVISION PER	DYS 7-92	MLA DCA 7/30/92	RJB DKL 7/92	LDS DCA 8/23/92	HDW 8/28/92
1	a) ECN W016-59 Z E6,7	DG EEW 4-91	KCA 5-30-91	MLA 5-8-91	WAH 5-30-91	HEW 5-30-91

REVISIONS

CAD FILE B080925A CAD CODE 2J:IBM:ACD2:10.0:NN

		DATE
DRAWN	EE COYNE	6-25-90
CHECKED	M ALEXANDER	6-26-90
SAFETY	D LUNDGREN	6-27-90
ENVIR	R HOLLENBECK	6-28-90
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M ELECTRICAL DIAG - PNLBD SCHED

PROJECT W-016H RMW STORAGE FACILITY

SIZE	BLDG NO.	INDEX NO.	DWG NO.	REV NO
F	2403 -WC	7201 7304	H-2-80925	3

SCALE NONE JOB NO. CR9265 SHEET 1 OF 1

KEHCAD

CAUTION
NOT COMPLETE WITHOUT CURRENT STATUS OF OUTSTANDING ECNS FROM DATA BASE

JAN 14 1993

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