

ENGINEERING CHANGE NOTICE

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1. ECN ~~100220~~

Proj. ECN ER2567-1

2. ECN Category (mark one)		Supplemental <input checked="" type="checkbox"/>	Change ECN <input type="checkbox"/>	Supersedure <input type="checkbox"/>
Cancel/Void <input type="checkbox"/>	Direct Revision <input type="checkbox"/>	Temporary <input type="checkbox"/>	Discovery <input type="checkbox"/>	
3. Originator's Name, Organization, MSIN, and Telephone No. J.D. Axford, KEH, E6-31, 6-6071			4. Date 10/16/92	
5. Project Title/No./Work Order No. Grout Processing Support Facility Drain Field Expansion/ER3077		6. Bldg./Sys./Fac. No. MO-392		7. Impact Level 4 / SC-3
8. Document Number Affected (include rev. and sheet no.) see Block 12		9. Related ECN No(s). NONE		10. Related PO No. NONE
11a. Modification Work <input type="checkbox"/> Yes (fill out Blk. 11b) <input checked="" type="checkbox"/> No (NA Blks. 11b, 11c, 11d)	11b. Work Package Doc. No. NA	11c. Complete Installation Work NA	11d. Complete Restoration (Temp. ECN only) NA	
			Cog. Engineer Signature & Date	

SC-3

12. Description of Change  
Documents affected: ER2567-C1, Rev 0, H-2-140591, sheets 1 & 2, Rev 0

Changes: see pages 3-7



13a. Justification (mark one)	Criteria Change <input type="checkbox"/>	Environmental <input type="checkbox"/>	Facilitate Const. <input type="checkbox"/>
Design Error/Omission <input type="checkbox"/>	Design Improvement <input checked="" type="checkbox"/>	As-Found <input type="checkbox"/>	Const. Error/Omission <input type="checkbox"/>

13b. Justification Details  
Items A through I and M are per WDOH review comments;  
Item K expidites procurement;  
Item L clarifies inspection requirements;  
Items J and N expedite construction document processing.

14. Distribution (include name, MSIN, and no. of copies)

KEH DISTRIBUTION WHC DISTRIBUTION  
Const. Doc Cntrl E2-50 Project Files RI-28  
V. J. Chamberlain E2-30 R. L. Moxin S4-43 W. H. Clemens R4-02  
A. G. Sanford E2-30 J. E. Turnbaugh H4-57 J. M. Cleavenger  
STA 10 A3-87 sos: A. L. Rodriguez A4-02 A S-15 S4-43  
STA 6 T2-03 M. E. McKinney R3-27 K. A. GIESE H4-57  
L. GARCIA 16-76 R. W. Clayton S1-54 J. K. EPPERLEY RI-29



RELEASE STAMP

OFFICIAL RELEASE BY WHC  
DATE OCT 28 1992  
STA 4

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1. ECN (use no. from pg. 1)

ER2567-1

15. Design Verification Required  
 Yes  
 No

16. Cost Impact

ENGINEERING		CONSTRUCTION	
Additional	<input checked="" type="checkbox"/> \$ 500	Additional	<input checked="" type="checkbox"/> \$ 1000
Savings	<input type="checkbox"/> \$	Savings	<input type="checkbox"/> \$

17. Schedule Impact (days)

Improvement   
 Delay  *None*

18. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19.

SDD/DD	<input type="checkbox"/>	Seismic/Stress Analysis	<input type="checkbox"/>	Tank Calibration Manual	<input type="checkbox"/>
Functional Design Criteria	<input type="checkbox"/>	Stress/Design Report	<input type="checkbox"/>	Health Physics Procedure	<input type="checkbox"/>
Operating Specification	<input type="checkbox"/>	Interface Control Drawing	<input type="checkbox"/>	Spares Multiple Unit Listing	<input type="checkbox"/>
Criticality Specification	<input type="checkbox"/>	Calibration Procedure	<input type="checkbox"/>	Test Procedures/Specification	<input type="checkbox"/>
Conceptual Design Report	<input type="checkbox"/>	Installation Procedure	<input type="checkbox"/>	Component Index	<input type="checkbox"/>
Equipment Spec.	<input type="checkbox"/>	Maintenance Procedure	<input type="checkbox"/>	ASME Coded Item	<input type="checkbox"/>
Const. Spec.	<input type="checkbox"/>	Engineering Procedure	<input type="checkbox"/>	Human Factor Consideration	<input type="checkbox"/>
Procurement Spec.	<input type="checkbox"/>	Operating Instruction	<input type="checkbox"/>	Computer Software	<input type="checkbox"/>
Vendor Information	<input type="checkbox"/>	Operating Procedure	<input type="checkbox"/>	Electric Circuit Schedule	<input type="checkbox"/>
OM Manual	<input type="checkbox"/>	Operational Safety Requirement	<input type="checkbox"/>	ICRS Procedure	<input type="checkbox"/>
FSAR/SAR	<input type="checkbox"/>	IEFD Drawing	<input type="checkbox"/>	Process Control Manual/Plan	<input type="checkbox"/>
Safety Equipment List	<input type="checkbox"/>	Cell Arrangement Drawing	<input type="checkbox"/>	Process Flow Chart	<input type="checkbox"/>
Radiation Work Permit	<input type="checkbox"/>	Essential Material Specification	<input type="checkbox"/>	Purchase Requisition	<input type="checkbox"/>
Environmental Impact Statement	<input type="checkbox"/>	Fac. Proc. Samp. Schedule	<input type="checkbox"/>		<input type="checkbox"/>
Environmental Report	<input type="checkbox"/>	Inspection Plan	<input type="checkbox"/>		<input type="checkbox"/>
Environmental Permit	<input type="checkbox"/>	Inventory Adjustment Request	<input type="checkbox"/>		<input type="checkbox"/>

19. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

Document Number/Revision	Document Number/Revision
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20. Approvals

	Signature	Date	Signature	Date
OPERATIONS AND ENGINEERING			ARCHITECT-ENGINEER	
Cog./Project Engineer	<i>[Signature]</i>	10/27/92	PE <i>[Signature]</i> FOR J.L. HENNING	10/27/92
Cog./Project Engr. Mgr.	<i>[Signature]</i>	10/27/92	OR <i>[Signature]</i>	10-26-92
QA	<i>[Signature]</i>	10/27/92	Safety <i>[Signature]</i>	10-26-92
Safety			Design <i>[Signature]</i>	10/26/92
Security			Other <i>[Signature]</i>	10/26/92
Proj. Prog./Dept. Mgr.				
Def. React. Div.				
Chem. Proc. Div.				
Def. Wst. Mgmt. Div.				
Adv. React. Dev. Div.				
Proj. Dept.				
Environ. Div.				
IRM Dept.				
Facility Rep. (Ops.)				
Other				

10-27-92 R. Maxin

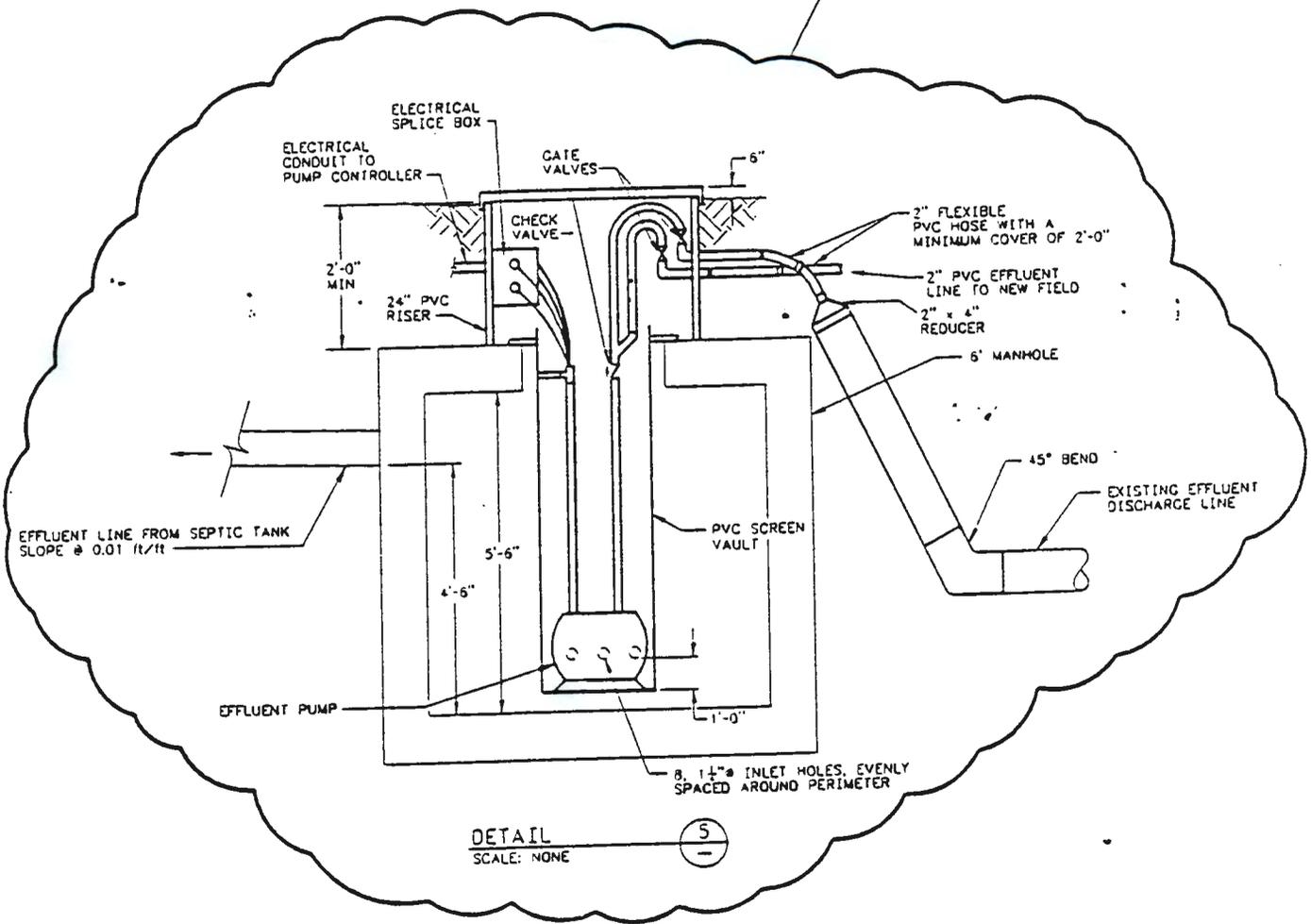


- A) 02740-1.1.1.4: Add: M-21-01-92, Standard Plans for Road, Bridge, and Municipal Construction.
- B) 01010-1.2.2.1 Change: '3' to '4.'
- C) 01010-1.2.2.5 Revise to read: Furnish and install pump chamber, pump, and pump control panel.
- D) 01010-1.3 revise section as follows:
- 1.3.1.1 Install new drainfield, pressure line and pump chamber; install pump alarm/control panel, and level operating switches; connect power supply.
- 1.3.1.2 Empty (see subparagraph 1.2.3.1) the second tank and modify the existing effluent line as shown on the Drawings.
- 1.3.1.3 Perform final system tests.
- E) Delete 01010-1.3.1.4 and 1.3.1.5
- F) Add: 02740-2.2.5.6: Pumping Chamber: 72" DIA manhole as per WSDOT M21-01 Standard Plan B-23c, with the accessway modified as shown in the Drawings, and without the access ladder.
- G) 02740-3.1.5 Revise to read as follows: Place pumping chamber and install screen. . . . Off Switch shall be set 2 inches above the PVC vault inlet holes, with the On and Alarm switches 21 and 24 inches above the Off switch, respectively.
- H) 02740-3.1.7.3: Revise to read: Backfill pumping chamber, septic . . . . Add Sentence: WDOH shall inspect the absorption trenches prior to backfill. Inspection shall be scheduled a minimum of five working days in advance.
- I) 02740-2.1.5: revise to read: . . .weighing 4 oz/sq yd or less.
- J) 02740-1.2: Add sentence: Submit 6 copies of each required submittal.
- K) 02740-2.2.5.2: revise to read: Pump shall be a 1/2 hp, 115 volt submersible effluent pump providing 40-100 gpm at 5-22 feet TDH. A check valve and 2 gate valves shall be incorporated in the discharge lines as shown on the drawings. A representative item is Orenco Systems Inc. Model WE05H. Pump shall be fitted. . .
- L) 02740-3.1.1.4 Revise to read: Excavate for new pressure line and absorption trenches. Make excavations to line and grade shown on the Drawings and wide enough to make connections. Store and maintain materials in manner preventing their falling or sliding into excavation. Absorption trenches shall be inspected by KEH design engineer prior to placement of drainrock. Inspection of absorption surface shall be scheduled a minimum of 24 hours in advance.
- M) 02740-3.1.4: revise to read: Construct distribution lines to the line and grade shown on the Drawings, leveled to within 1/4" per 80'.
- N) 16400-1.2 Revise to read as follows: . . .procedures. Submit 6 copies each required submittal.
- O) 02740-2.2.5.1 Change 1-1/2-inch to 1-1/4-inch, change SV1548 to SV1560, and insert the following: . . . of the vault, one foot from the bottom. A representative. . . .

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ZONE A-C5.6

REVISE



KAISER ENGINEERS  
HANFORD

ENGINEERING CHANGE NOTICE SKETCH

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ZONE B1.2

REVISE

NOTES:

1. EXISTING EFFLUENT DISCHARGE LINE TO BE CUT AND REDIRECTED TO PUMPING CHAMBER. CUT AT DISTANCE FROM TANK SUFFICIENT TO INCORPORATE A 90° BEND.
2. FIELD LOCATE COMPONENTS WITHIN PVC RISER. SUBJECT TO APPROVAL OF KEH CONSTRUCTION MANAGEMENT.

ADD

Ref. Dwg.  
H-2-140591

Sh.  
1

Rev.  
0

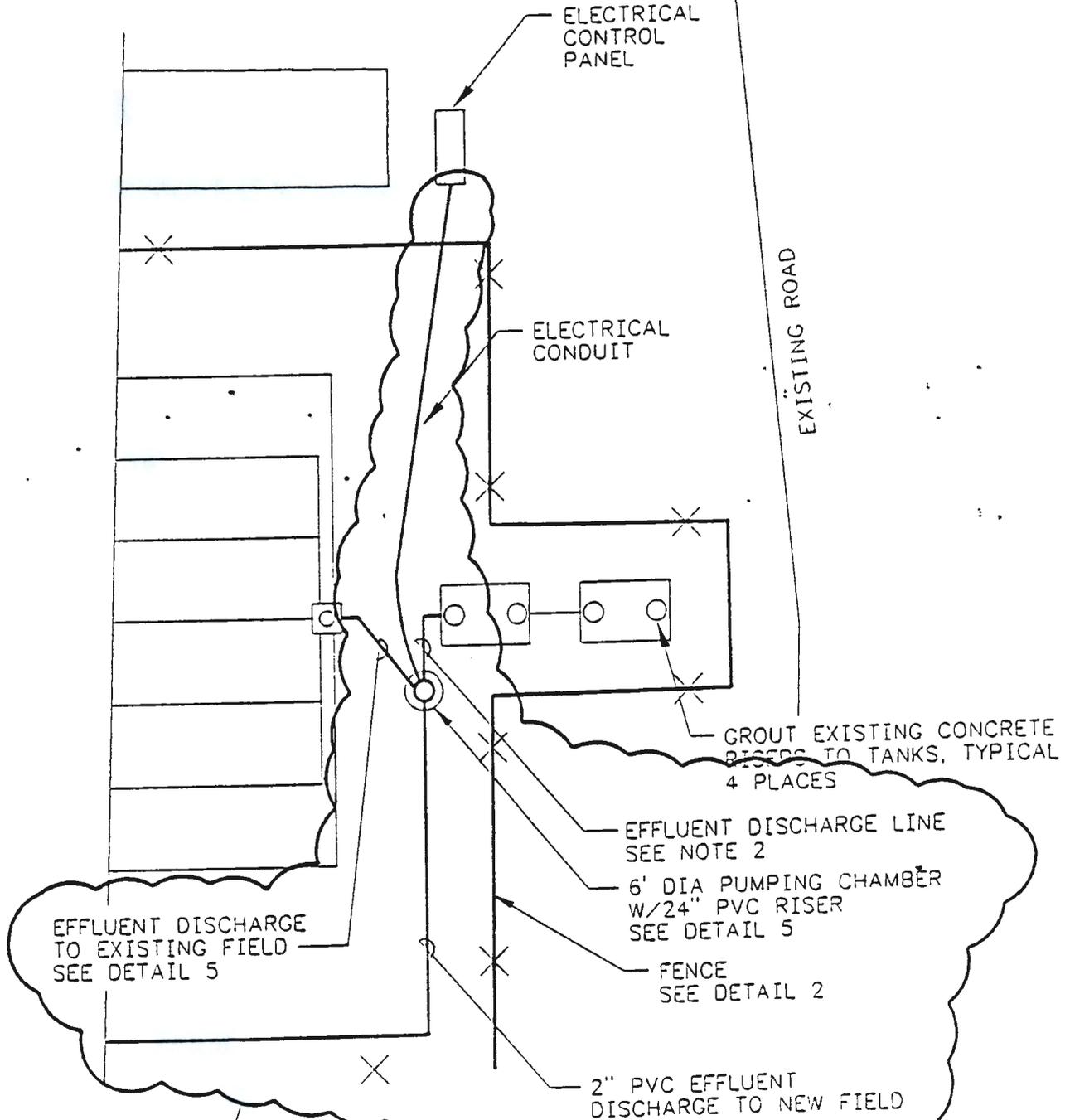
Prepared By  
BA LORENZO

Checked By  
*C. S. [Signature]*

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ZONE D-F4



REVISE

Ref. Dwg.  
H-2-140591

Sh.  
2

Rev.  
0

Prepared By  
BA LORENZO

Checked By  
*[Signature]*

ECN No.  
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ZONE E6

