

**WASTE TREATMENT PLANT PROJECT (WTP)
REQUEST FOR INTEREST (RFI)**

High Level Waste Facility HVAC Duct System

Requisition Number: 24590-QL-SRA-MDHM-00010
Submit Interest By: Thursday July 9, 2026
Quality Level: QL (NQA-1-2022); Parts 1&2, Subparts 2.2 and 2.7
Award Type: Firm Fixed Price / Fixed Unit Price

ESTIMATED SCHEDULE:

Issue Request for Proposal: 3rd Quarter CY2026
Award and Notice to Proceed: 1st Quarter of CY2027

PROJECT DESCRIPTION AND LOCATION:

The Hanford Tank Waste Treatment and Immobilization Plant (WTP) is a complex of radioactive waste treatment processing facilities designed and constructed by Bechtel National, Inc. for the Department of Energy (DOE).

SCOPE OF WORK:

INTERESTED PARTIES SHALL HAVE AN EXISTING QUALITY PROGRAM MEETING THE REQUIREMENTS OF ASME NQA-1, 2022 OR CONFIRM ESTABLISHING AN ASME NQA-1 QUALITY PROGRAM.

This Scope of Work is specific to the High-Level Waste (HLW) facility (see attached pictorial illustration) consisting of approximately 175,000 lbs. of welded stainless-steel ductwork, AG-1, ranging in size up to 60" in diameter.

SUBCONTRACTOR's work shall include, but shall not be limited to, design review of CONTRACTOR installed duct systems, design, procurement, fabrication and installation of all ductwork materials, supports, hangers, expansions joints for thermal expansion and/or stress reduction, inline components, the seismic qualification of those items and components to furnish, install, and test the HVAC ductwork systems and inline components in the HLW facility, testing, technical support services, transportation, documentation and other work necessary. Performance of this Scope of Work will be executed in parts consisting of:

Design:

Design review of CONTRACTOR previously installed duct system for compliance with current design criteria and specifications.

Full and complete design resulting in issuance of Issued for Fabrication (IFF) document package for the procurement and fabrication of structural supports, ductwork, inline components and miscellaneous ductwork accessories associated with described installation work scopes/packages.

Two (2) representative "Example" orthographic drawings are attached for interested parties information depicting WTP has achieved and will provide 90% complete drawings in the RFP.

Procurement & Fabrication: Procurement of all duct material and in-line components such as dampers, grills, etc., and Off-Site fabrication of duct work and transportation to the jobsite.

Installation: SUBCONTRACTOR shall construct the HVAC System in accordance with the CONTRACTOR approved design, and SUBCONTRACTOR approved Issue for Installation (IFI) drawings/work Package.

QUALITY ASSURANCE (QA) REQUIREMENTS:

Programmatic Quality Assurance (QA) requirements for subcontracts or purchase orders performed in the WTP Jobsite will be:

Nuclear Level Quality- Based on ASME NQA-1 2022.

COMMERCIAL GRADE DEDICATION:

The CONTRACTOR will review the SUBCONTRACTOR'S program for dedication of commercial grade items and services, including sub-supplier dedication activities should the SUBCONTRACTOR choose to dedicate commercial grade items.

BIDDER REGISTRATION AND PRE-QUALIFICATION:

The BNI Acquisition Services Subcontracts/Purchasing group is responsible for collection, evaluation, and internal publication of potential Bidders' information for the purpose of pre-qualifying to bid on any particular subcontract or purchase order.

As part of this process, BNI requires all potential Bidders to register at the Supplier and Contractor Portal at: <https://www.Bechtel.com/supplier/>

If your Bidder has registered previously, then only supplemental information should be sent to the Bechtel National, Inc. representative noted below.

Information to be provided by potential Bidders must include:

- Dun and Bradstreet Number
- Company Name
- Company Address
- Contact Phone Number
- Contact Person
- Email Address
- Safety Data and Information
- Applicable Work Experience and Projects
- Size of Business (Small, Large)

WTP BACKGROUND:

Information about the WTP Project can be found on <http://www.hanfordvitplant.com>

RFI CONTACT:

Bechtel National, Inc.

450 Hills Street

Richland, WA 99354

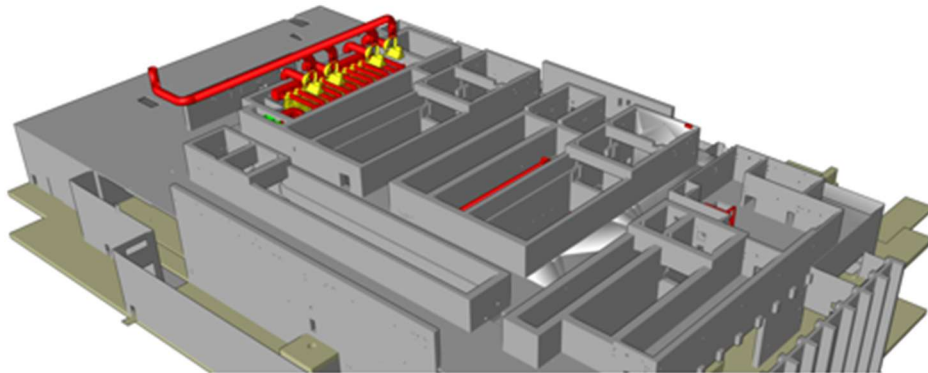
Attn: Matthew Jackson

Phone: (509) 371-5997

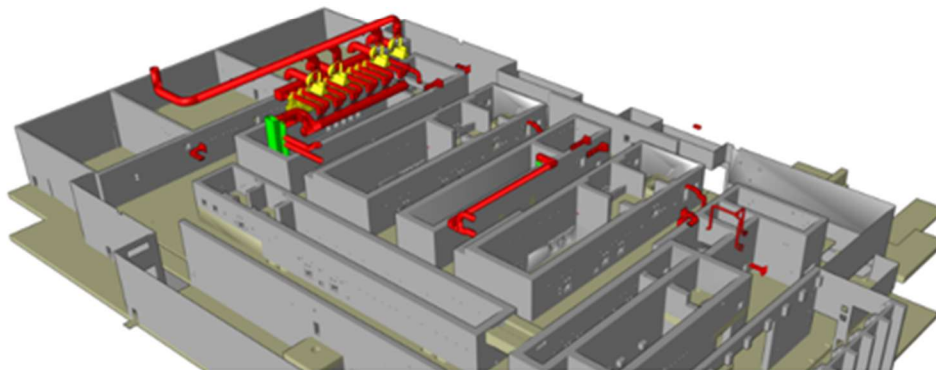
Email Address: mjjackso@bechtel.us

Mailstop: MS10-E

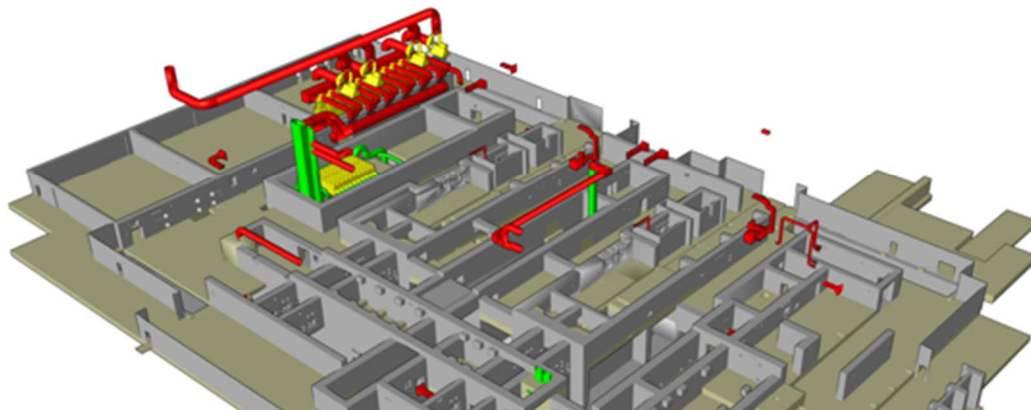
**HLW Pictorial Illustration of HVAC Ductwork by Elevation Cut
(Red To-Go, Green Installed, Yellow Equipment)**



Elevation 58' HLW



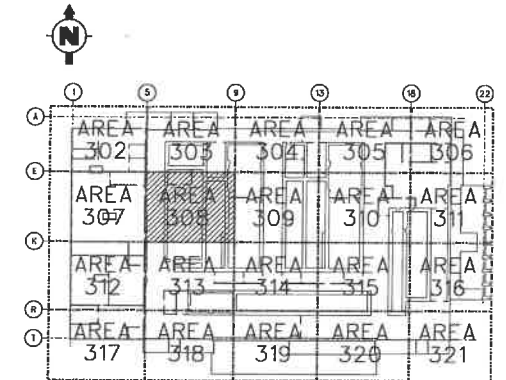
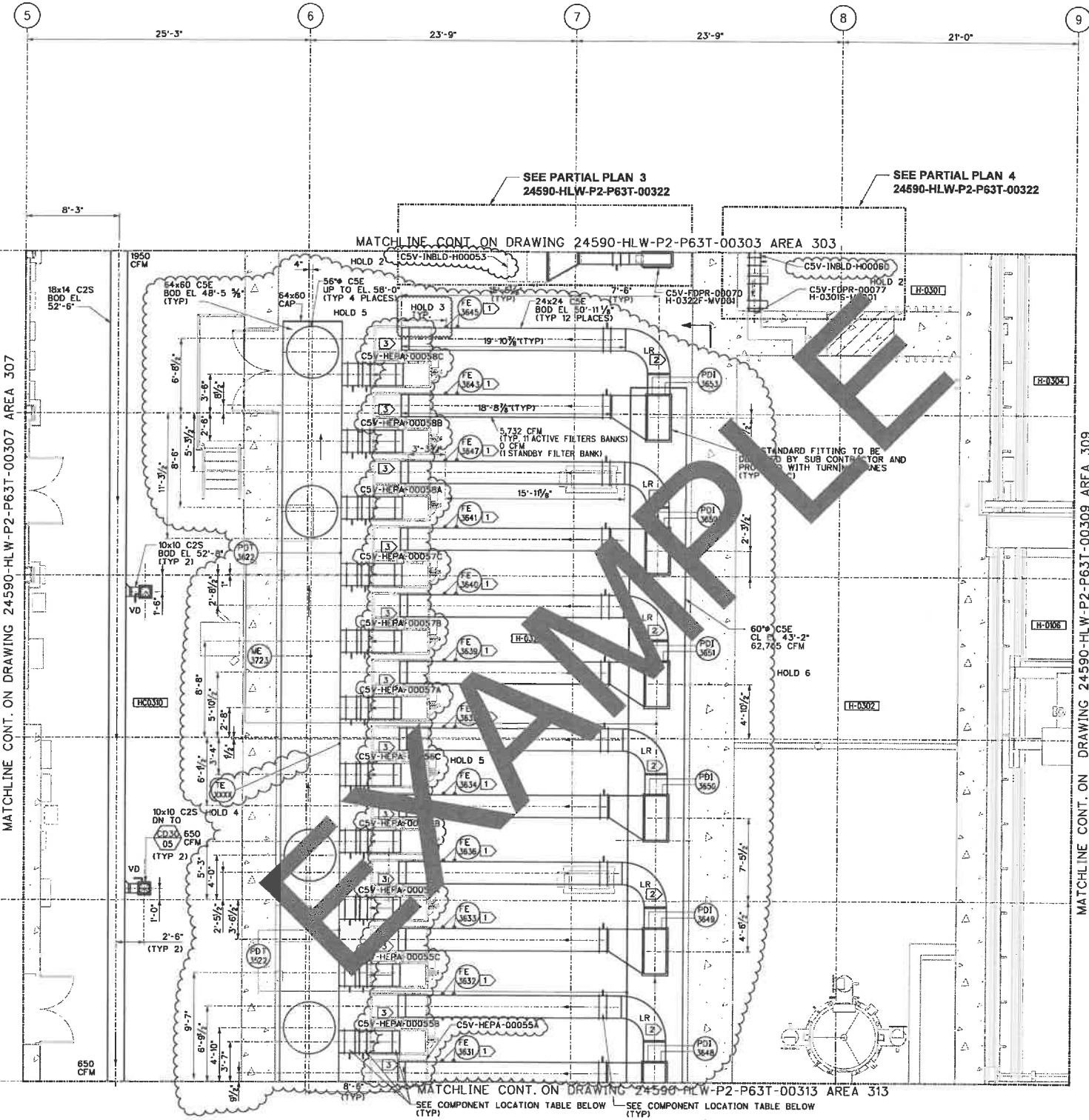
Elevation 37' HLW



Elevation 0' HLW

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- NOTES:**
- FOR GENERAL NOTES SEE 24590-HLW-P2-P63T-00001.
 - FACE OF DIFFUSERS ARE AT EL. 46'-0" UNLESS OTHERWISE NOTED.
 - FOR CONCRETE PENETRATION DETAILS ON INLEED ASSEMBLY H00053, SEE DRAWING 24590-HLW-DB-S13T-00071 & 24590-HLW-DD-S13T-00089, AND H00060, 24590-HLW-DB-S13T-00327 & 24590-HLW-DD-S13T-00076.
 - FOR CSV SUPPORT DRAWINGS, SEE 24590-HLW-SS-S13T-00517, 00518 AND 00519.
 - FOR SECTION VIEWS SEE DWG. 24590-HLW-P2-P63T-00322.
 - TURNING VANES IN MITRED ELBOWS PER SMACNA HVAC SYSTEM DUCT DESIGN (2006, 4TH ED. OR LATER).
 - CSV DUCT DESIGN PRESSURE CLASS G/M EQUAL TO -4.3 IN.WG. UP TO SECONDARY HEPA FILTER INLET DAMPER AND -5.3 IN.WG. FROM SECONDARY HEPA FILTER INLET DAMPER (DAMPER INCLUDED) TO CSV FAN INLET ISOLATION DAMPER. VALUES INCLUDE 25% MARGIN. REF. CALCULATION 24590-HLW-MAC-CSV-00014 REV. A.
 - CSV DUCT DESIGN TEMPERATURE EQUAL TO 165F CONTINUOUS EXPOSURE. REF. CALCULATION 24590-HLW-MAC-CSV-00014 REV. A PROVIDE EXPANSION JOINTS AS REQUIRED. HOLD ON DESIGN. TEMPERATURE PENALTY ASSUMPTION CONFIRMATION, I.F. CFD & FQ CALCULATION CONFIRMATION.
 - DUCTWORK SUBCONTRACTOR TO CONFIRM DIMENSIONAL DATA PRIOR TO FINAL TIE-INS. MATCH DRILL SUPPLIER PROVIDED EQUIPMENT.
 - ALARA DESIGN REVIEW REFERENCES:
24590-HLW-ADR-HV-02-001, REV. 3
24590-HLW-ADR-HV-02-003, REV. 5

- HOLD:**
- ALL OF THE CSV EXHAUST DUCTWORK TO BE INSULATED PER 24590-WTP-3PS-M000-T0001.
 - PENDING VENDOR INFORMATION AND DESIGN DEVELOPMENT
 - PENDING BNI CMI ASSESSMENT FOR OPTIMUM FE LOCATION.
 - PENDING VMDI DESIGN CHANGE.
 - PENDING VENDOR DRAWINGS FOR HEPA FILTERS
 - PENDING RADIOLOGICAL CALCULATION REVISION AND ADR REVIEW

- REVISION 2 NOTE:**
- COMPLETE REVISION CHANGE CLOUDS NOT SHOWN, INCORPORATED 24590-HLW-EIE-HV-14-0001 REV. 0, 24590-HLW-EIE-HV-16-0011 REV. 0, 24590-HLW-EIE-HV-20-0004 REV. 0, 24590-HLW-EIE-HV-21-0003 REV. 0, 24590-HLW-EIE-HV-22-0001 REV. 1 CHANGE DOCUMENTS INCORPORATED BY REFERENCE-NONE

- REVISION 3 NOTE:**
- COMPLETE REVISION CHANGE CLOUDS NOT SHOWN, INCORPORATED 24590-HLW-P2N-P63T-0018A, 24590-HLW-P2N-P63T-0018S, 24590-HLW-EIE-HV-24-0020 REV. 0

- KEY NOTES:**
- ADD TEST PORT UPSTREAM OF EACH FE, FOR TEST PORT SPACING REFER TO INDUSTRIAL VENTILATION A MANUAL OF RECOMMENDED PRACTICE, 23RD EDITION OR LATER.
 - ELBOW RECTANGULAR WITH 3 SPLITTER VANES PER SMACNA (TYP)
 - FOR CONNECTION DETAILS TO FILTER HOUSINGS SEE 24590-HLW-MK-CSV-00001001 (TYP 12 PLACES)

COMPONENT LOCATION TABLE

HEPA FILTER	INLET DAMPER	INLET BELLOW	OUTLET BELLOW	OUTLET DAMPER	OUTLET DAMPER
CSV-HEPA-00055A	CSV-DPR-00358C	CSV-BLWS-00012	CSV-BLWS-00013	CSV-DPR-00359C	CSV-DPR-00526
CSV-HEPA-00055B	CSV-DPR-00358D	CSV-BLWS-00016	CSV-BLWS-00017	CSV-DPR-00359D	CSV-DPR-00527
CSV-HEPA-00055C	CSV-DPR-00358E	CSV-BLWS-00020	CSV-BLWS-00021	CSV-DPR-00359E	CSV-DPR-00528
CSV-HEPA-00055D	CSV-DPR-00358F	CSV-BLWS-00023	CSV-BLWS-00024	CSV-DPR-00359F	CSV-DPR-00529
CSV-HEPA-00055E	CSV-DPR-00358G	CSV-BLWS-00015	CSV-BLWS-00016	CSV-DPR-00359G	CSV-DPR-00530
CSV-HEPA-00055F	CSV-DPR-00358H	CSV-BLWS-00019	CSV-BLWS-00020	CSV-DPR-00359H	CSV-DPR-00531
CSV-HEPA-00057A	CSV-DPR-00362C	CSV-BLWS-00024	CSV-BLWS-00025	CSV-DPR-00363C	CSV-DPR-00532
CSV-HEPA-00057B	CSV-DPR-00362D	CSV-BLWS-00028	CSV-BLWS-00029	CSV-DPR-00363D	CSV-DPR-00533
CSV-HEPA-00057C	CSV-DPR-00362A	CSV-BLWS-00032	CSV-BLWS-00033	CSV-DPR-00363A	CSV-DPR-00534
CSV-HEPA-00057D	CSV-DPR-00362B	CSV-BLWS-00036	CSV-BLWS-00037	CSV-DPR-00363B	CSV-DPR-00535
CSV-HEPA-00058A	CSV-DPR-00366C	CSV-BLWS-00031	CSV-BLWS-00032	CSV-DPR-00365C	CSV-DPR-00536
CSV-HEPA-00058B	CSV-DPR-00366D	CSV-BLWS-00035	CSV-BLWS-00036	CSV-DPR-00365D	CSV-DPR-00537
CSV-HEPA-00058C	CSV-DPR-00366A	CSV-BLWS-00039	CSV-BLWS-00040	CSV-DPR-00365A	CSV-DPR-00538
CSV-HEPA-00058D	CSV-DPR-00366B	CSV-BLWS-00043	CSV-BLWS-00044	CSV-DPR-00365B	CSV-DPR-00539

FLOW ELEMENT CONNECTIONS TO FILTERS & SIDE OF DUCT

ITEM	CONNECTION	FILTER UNIT	FLOW ELEMENT
•	HORIZONTAL OUTLET	-00055A	FE 3631
•	HORIZONTAL OUTLET	-00055B	FE 3632
•	HORIZONTAL OUTLET	-00055C	FE 3633
•	HORIZONTAL OUTLET	-00055D	FE 3634
•	HORIZONTAL OUTLET	-00055E	FE 3635
•	HORIZONTAL OUTLET	-00055F	FE 3636
•	HORIZONTAL OUTLET	-00057A	FE 3637
•	HORIZONTAL OUTLET	-00057B	FE 3638
•	HORIZONTAL OUTLET	-00057C	FE 3641
•	HORIZONTAL OUTLET	-00057D	FE 3642
•	HORIZONTAL OUTLET	-00058A	FE 3643
•	HORIZONTAL OUTLET	-00058B	FE 3644
•	HORIZONTAL OUTLET	-00058C	FE 3645

REFERENCE DRAWINGS

DWG NO	TITLE
24590-HLW-P1-P01T-00004	HLW VITRIFICATION BLDG GENERAL ARRANGEMENT PLAN AT EL. 37'-0"
24590-HLW-P1-P01T-00008	HLW VITRIFICATION BLDG GENERAL ARRANGEMENT SECTION AL THRU CC
24590-HLW-P1-P01T-00011	HLW VITRIFICATION BLDG GENERAL ARRANGEMENT SECTION JU AND KV
24590-HLW-MB-CSV-00003001	HLW VITRIFICATION BLDG SYS CSV V & ID AIR DISTRIBUTION EL. 57'-0"
24590-HLW-MB-CSV-00003002	HLW VITRIFICATION BLDG SYS CSV V & ID AIR DISTRIBUTION EL. 57'-0"
24590-HLW-MB-CSV-00002001	HLW VITRIFICATION BLDG SYS CSV V & ID METER CAVE NO. 2
24590-HLW-MB-CSV-00008001	HLW VITRIFICATION BLDG SYS CSV PLANT RM VMDI CS EXH IMPLEDGS
24590-HLW-MB-CSV-00006003	HLW VITRIFICATION BLDG SYS CSV PLT RM SECONDARY EXHAUST FILTERS
24590-HLW-MB-CSV-00006004	HLW VITRIFICATION BLDG SYS CSV PLT RM SECONDARY EXHAUST FILTERS

REVISION HISTORY

REV	DESCRIPTION	ORG	CHKD	RVWD	APVD	DATE
3	SEE REV 3 NOTE					10-8-24
2	COMPLETE REVISION SEE REVISION 2 NOTE	JC	NL	TS	LAL	3-17-23
1	INCRP 24590-HLW-P2N-P63T-00167					
0	RELEASED HOLD 1 & T.O. 58 FOR FABRICATION	CKI	LMB	SKX	AH	6-7-12
0	ISSUED FOR FABRICATION TO S. RM H-0322	CKI	LMB	RH	PM	1-27-11

REVISION 10-8-24

ISSUED BY: RFP-WIP-FIX
 CHECKED BY: LISA BALDOWSKI
 APPROVED BY: KEITH HUBER

PROJECT NO: 24590
 SITE: HANFORD
 AREA: 200
 BUILDING NO: 308

ORIGINATOR: OK INGRESOLL
 CHECKER: LISA BALDOWSKI
 APPROVER: PAUL MILLER
 REVIEWER: KEITH HUBER

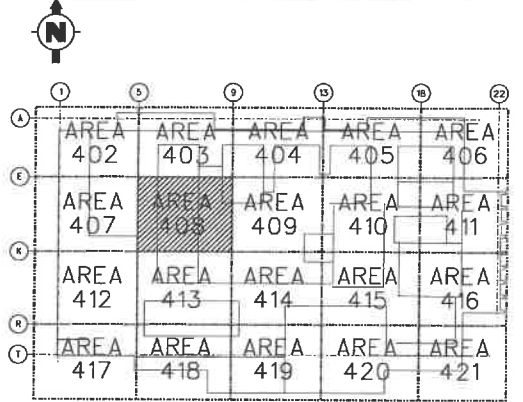
CONTRACT NO: DE-AC22-07RV14138

RIVER PROTECTION PROJECT
 WASTE TREATMENT PLANT
 2435 STEVENS CENTER PLACE
 RICHLAND, WA 99354

**HLW VITRIFICATION BUILDING
 HVAC ORTHOGRAPHIC
 PLAN AT ELEV. 37'-0" AREA 308**

SCALE: 1/4"=1'-0"
 24590-HLW-P2-P63T-00308

DATE: 10/1/2024 10:07:31 AM



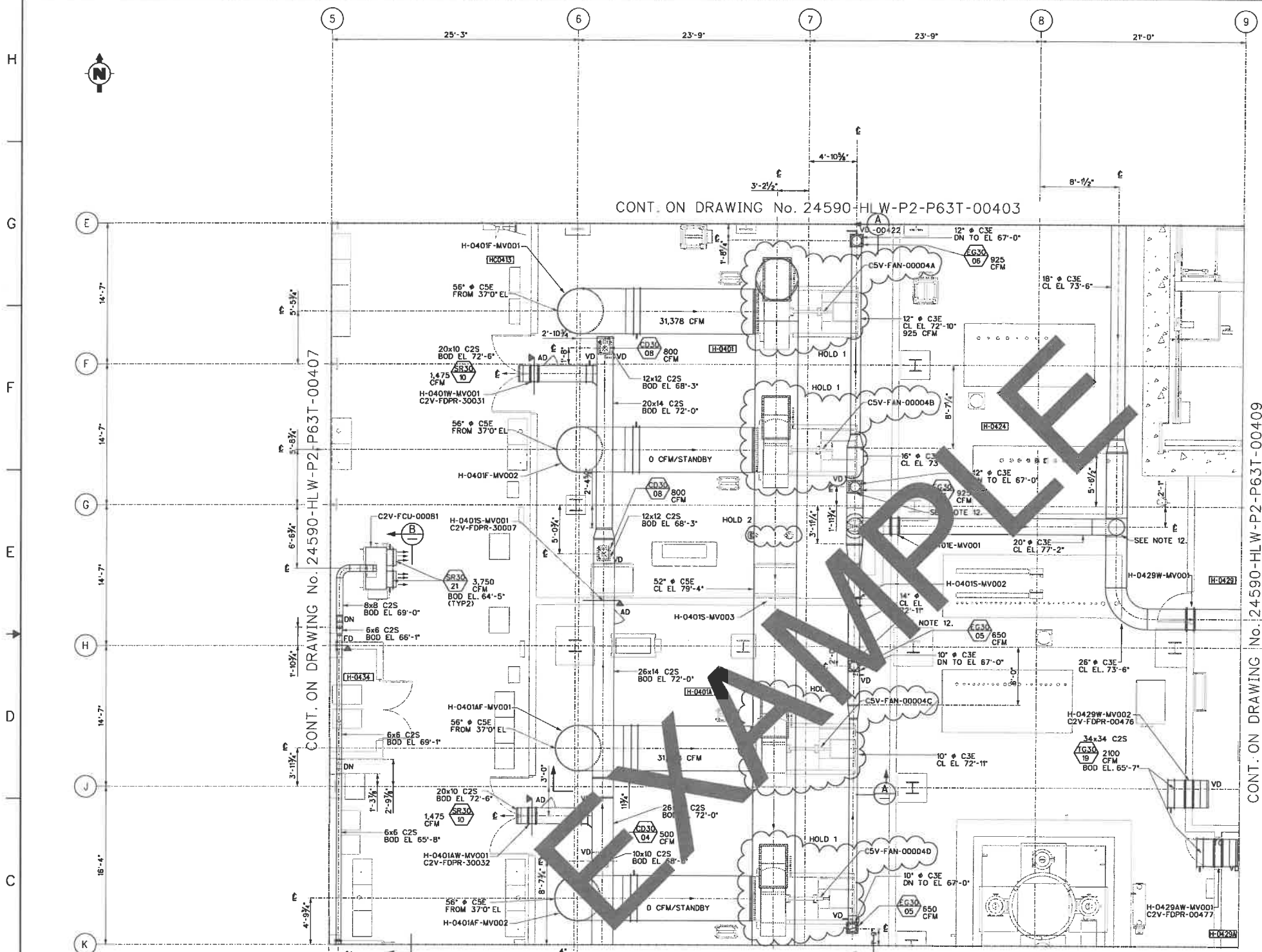
58'-0" ELEVATION KEY PLAN

NOTES:

- FOR LEGEND, SYMBOLS, ABBREVIATIONS, SEE DRAWING 24590-WTP-P0-P13T-01000, FOR DIFFUSER SCHEDULE, GENERAL NOTES AND HOLDS, SEE DRAWING 24590-HLW-P2-P63T-00000, FOR DUCT CLASSIFICATION DESIGNATOR, SEE HVAC V & ID SYMBOLS AND LEGENDS DRAWING NO. 24590-WTP-MB-MBOT-00001.
- PENETRATIONS AND FIRE DAMPER TAG NUMBERS ARE IDENTIFIED IN THE DRAWING. FOR REFERENCE SEE DRAWINGS 24590-HLW-MB-30-00005.
- FOR ACCESS DOORS SIZES SEE SPECIFICATION 24590-HLW-3PS-MD00-10001.
- FOR WALL PENETRATION AND FIRE DAMPER DETAILS REFER TO DRAWINGS 24590-HLW-MB-M3T-00001001 THRU 24590-HLW-MB-M3T-00001004.
- REFER TO DWG 24590-WTP-J0-50-0000B001 THRU 24590-WTP-J0-50-0000B004 FOR INSTRUMENTATION DUCT TAP DETAILS, UNLESS SPECIFIED OTHERWISE.
- SMOKE/ FIRE COMBINATION DAMPERS ARE SHOWN WITH S/FD DESIGNATION.
- FACE OF DIFFUSERS ARE AT EL 67'-0" UNLESS OTHERWISE NOTED.
- OFFSETS IN DUCT ROUTING AND CHANGES IN ELEVATION ARE SHOWN WITH A "WP" DESIGNATION.
- SYSTEM DUCT DESIGNATIONS UNLESS NOTED OTHERWISE:
C2 SUPPLY - C-4-A/H-3-D
C2 EXHAUST - B-4-D/H-3-D
C2 TRANSFER - C-4-A/H-3-D
C3 EXHAUST - B-3-B/N-3-D
C5 EXHAUST - A-1-G/M-1-A
- ALARA DESIGN REVIEW REFERENCES:
24590-HLW-ADR-HV-02-003 REV 4
24590-HLW-ADR-HV-02-004 REV 7
- FOR ADDITIONAL NOTES FOR CSE DUCT SEE DWGS 24590-HLW-P2-P63T-000122 THRU 24590-HLW-P2-P63T-000124.
- USE A SHOE TAP FITTING IN DIRECTION OF FLOW FOR BRANCH CONNECTION ON ROUND CSE DUCT WHERE NOTED.

HOLD:

- PENDING VENDOR DRAWINGS FOR CSV FANS.
- PENDING V&ID 24590-HLW-MB-SDJ-00001002 AND 24590-HLW-MB-SDJ-00007001 REVISION.

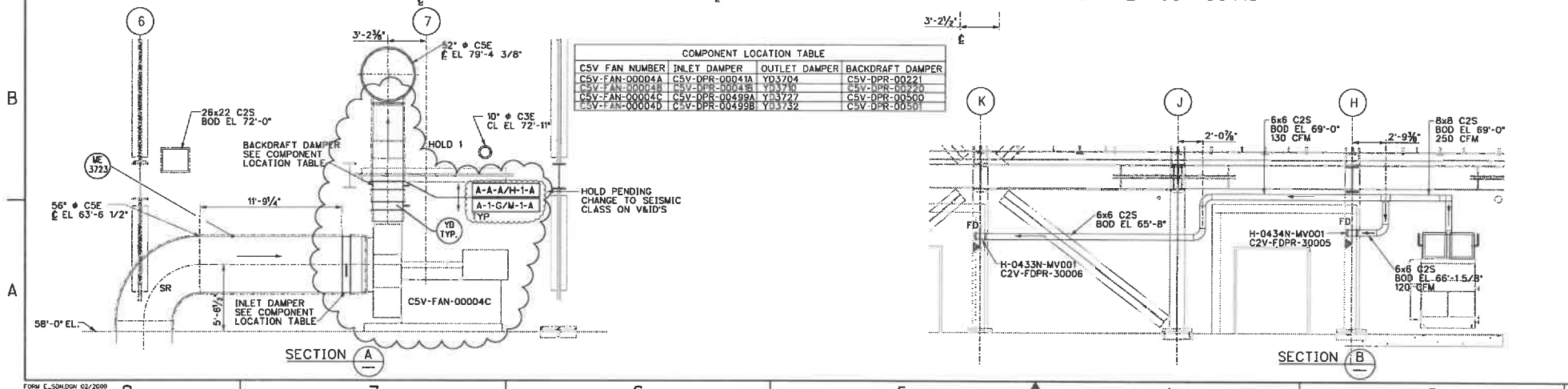


CONT. ON DRAWING No. 24590-HLW-P2-P63T-00403

CONT. ON DRAWING No. 24590-HLW-P2-P63T-00407

CONT. ON DRAWING No. 24590-HLW-P2-P63T-00409

CONT. ON DRAWING No. 24590-HLW-P2-P63T-00413



COMPONENT LOCATION TABLE			
CSV FAN NUMBER	INLET DAMPER	OUTLET DAMPER	BACKDRAFT DAMPER
CSV-FAN-00004A	CSV-DPR-00041A	YD3704	CSV-DPR-00221
CSV-FAN-00004B	CSV-DPR-00041B	YD3710	CSV-DPR-00222
CSV-FAN-00004C	CSV-DPR-00499A	YD3727	CSV-DPR-00500
CSV-FAN-00004D	CSV-DPR-00499B	YD3732	CSV-DPR-00501

DWG NO	TITLE
24590-HLW-P1-POIT-00005	HLW VITRIFICATION BLDG GENERAL ARRANGEMENT PLAN AT EL 58'-0"
24590-HLW-P1-POIT-00008	HLW VITRIFICATION BLDG GENERAL ARRANGEMENT SECTION AA, BB, CC
24590-HLW-P1-POIT-00011	HLW VITRIFICATION BLDG GENERAL ARRANGEMENT SECTION JJ AND KK
24590-HLW-MB-CV-00002001	HLW VITRIFICATION BLDG SYS C2V V&ID AIR DIST. EL. 58'-0" & 9F5H 10F 2
24590-HLW-MB-CV-00005002	HLW VITRIFICATION BLDG SYS C3V V&ID AIR DIST. EL. 58'-0" & 9F5H 10F 2

REV	ISSUED FOR FABRICATION	DESCRIPTION	DATE
0	ISSUED FOR FABRICATION	SEE STAMPS	9-18-24

PROJECT No.	24590
SITE	WAFORD
AREA	300C
BUILDING No.	30
ORIGINATOR	SEE STAMPS
CHECKER	SEE STAMPS
APPROVER	9-18-24
REVIEWER	SEE STAMPS

CONTRACT No. DE-AC27-DRV14136
HLW VITRIFICATION BUILDING HVAC ORTHOGRAPHIC PLAN AT ELEV 58'-0" / AREA 408