

DOE-ID NEPA CX DETERMINATION

Idaho National Laboratory

SECTION A. Project Title: EBR-I and CFA Miscellaneous Concrete Replacement

SECTION B. Project Description and Purpose:

Sidewalks and other miscellaneous concrete structures (e.g. curbs, gutters, etc.) at the Central Facilities Area (CFA) and Experimental Breeder Reactor (EBR)-1 are experiencing deterioration and cracking. These conditions present a safety hazard to personnel and need to be corrected.

The summary of work includes but is not limited to the following:

- Remove concrete ramps, stairs and slabs, sidewalks and railings
- Acquire aggregate
- Excavate materials as needed to replace concrete
- Backfill excavations for footings and foundations
- Backfill excavation for slabs and sidewalks
- Backfill pit run gravel and leveling course base for paving
- Compact all backfill and subgrade
- Grade for surface drainage
- Test soils and compaction.

Excavated material suitable and required for backfilling, grading, or topsoil will be piled in a safe manner and kept free of vegetation. Topsoil for finish grading will be kept free from subsoil and vegetation.

Asphalt damaged or disturbed by concrete repair or replacement will be patched. Asphalt will be repaired by removing damaged material by sawcutting, and base material will be removed to a depth of 12 inches. Twelve inches of leveling course will then be placed in two lifts and compacted. The subbase and leveling course will be compacted with a vibratory plate compactor or a rammer/tamper compactor. New asphalt will be placed flush with adjacent asphalt and match slope.

New sidewalks will have minimum 4-inches of compacted gravel base over compacted sub-base, be a minimum of 5-inches thick, and be reinforced with #4 bars.

The proposed action removes and replaces concrete ramps, stairs and slabs, sidewalks and railings as described below:

CFA-674 Loading Dock Replacement

The proposed action replaces the CFA-674 loading dock. Activities associated with loading dock replacement include the following:

- A. Demolition and disposal of old loading dock and stair
- B. Excavation and backfill for new loading dock
- C. Installation of new loading dock and stair
- D. Site grading and paving.

Figures 1 and 2 detail the scope of work for replacing the loading dock.

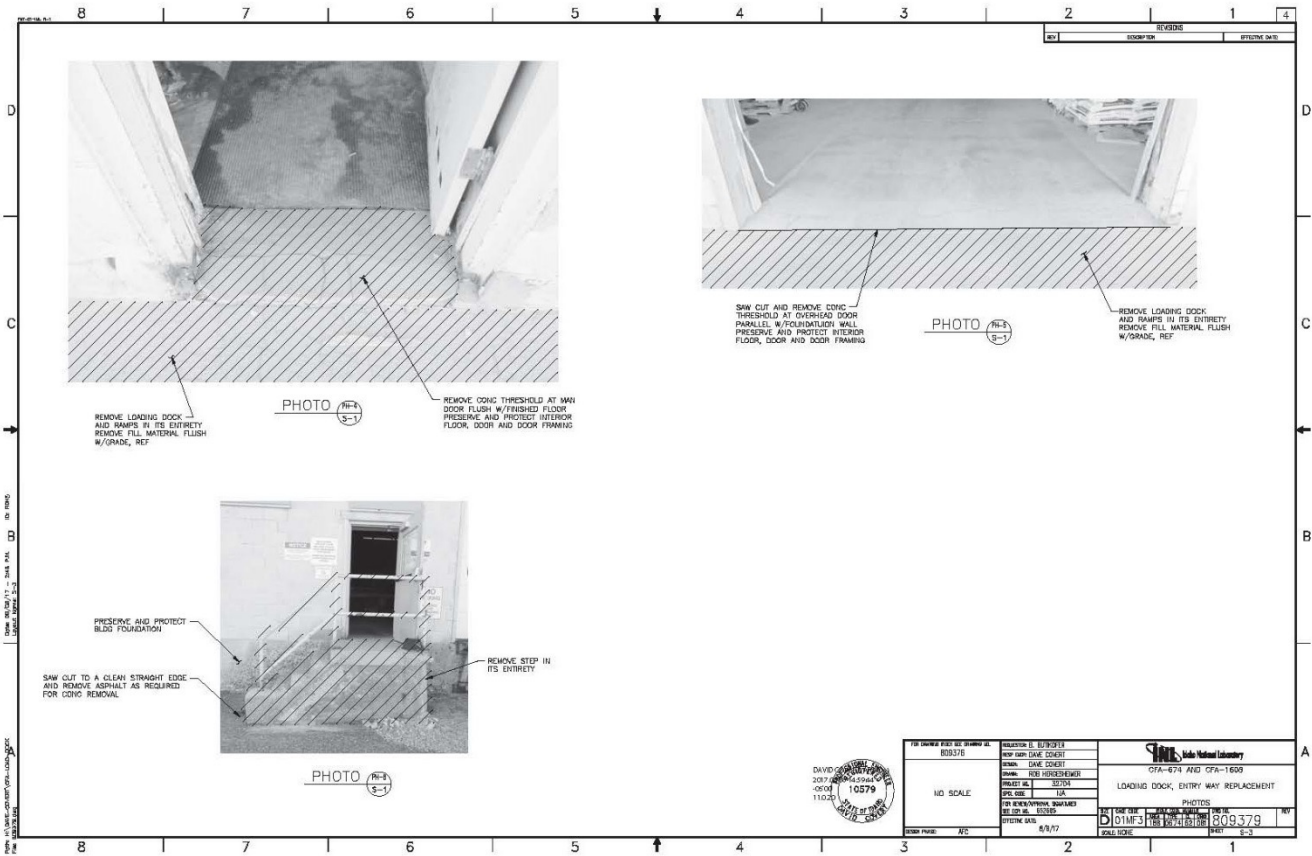
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Figure 1. CFA-674 Loading Dock Replacement

REVISIONS	
NO.	DESCRIPTION

FOR OWNER USE ONLY	PROJECT NO. 8790218	
808378	REP TASK DATE CODE:01	
DESIGNER: DALE GENTRY	DATE: 08/20/18	CFA-674 AND CFA-1600
DRAWN: BOB HERRSCHMIDT	SCALE: 3/8"=1'-0"	LOADING DOCK, ENTRY WAY REPLACEMENT
CHECKED: BOB HERRSCHMIDT	DATE: 08/20/18	PHOTOS
DATE: 08/20/18	SCALE: 3/8"=1'-0"	PROJECT NO. 8790218
DATE: 08/20/18	SCALE: 3/8"=1'-0"	PROJECT NO. 809378
DATE: 08/20/18	SCALE: 3/8"=1'-0"	PROJECT NO. 809378

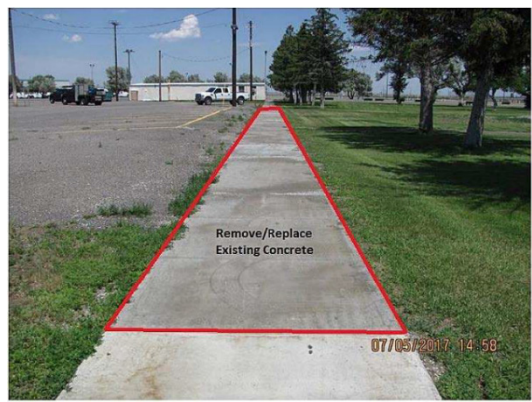
Figure 2. CFA-674 Loading Dock Removal Details



CFA-614 Sidewalk Repair and Replacement

Project activities remove and replace the sidewalk between CFA-614 and CFA-685 (See Figures 3).

Figure 3. CFA-614 to CFA-685 Sidewalk Replacement



CFA-615 East Side Sidewalk

The sidewalk on the east side of CFA-615 will be replaced as shown in Figure 4.

Figure 4. CFA-615 East Side Sidewalk Replacement



CFA-1608 Concrete Repair and Replacement

Project activities remove and replace concrete at CFA-1608 as shown in figures 5 and 6.

Figure 5. CFA-1608 Concrete Improvements

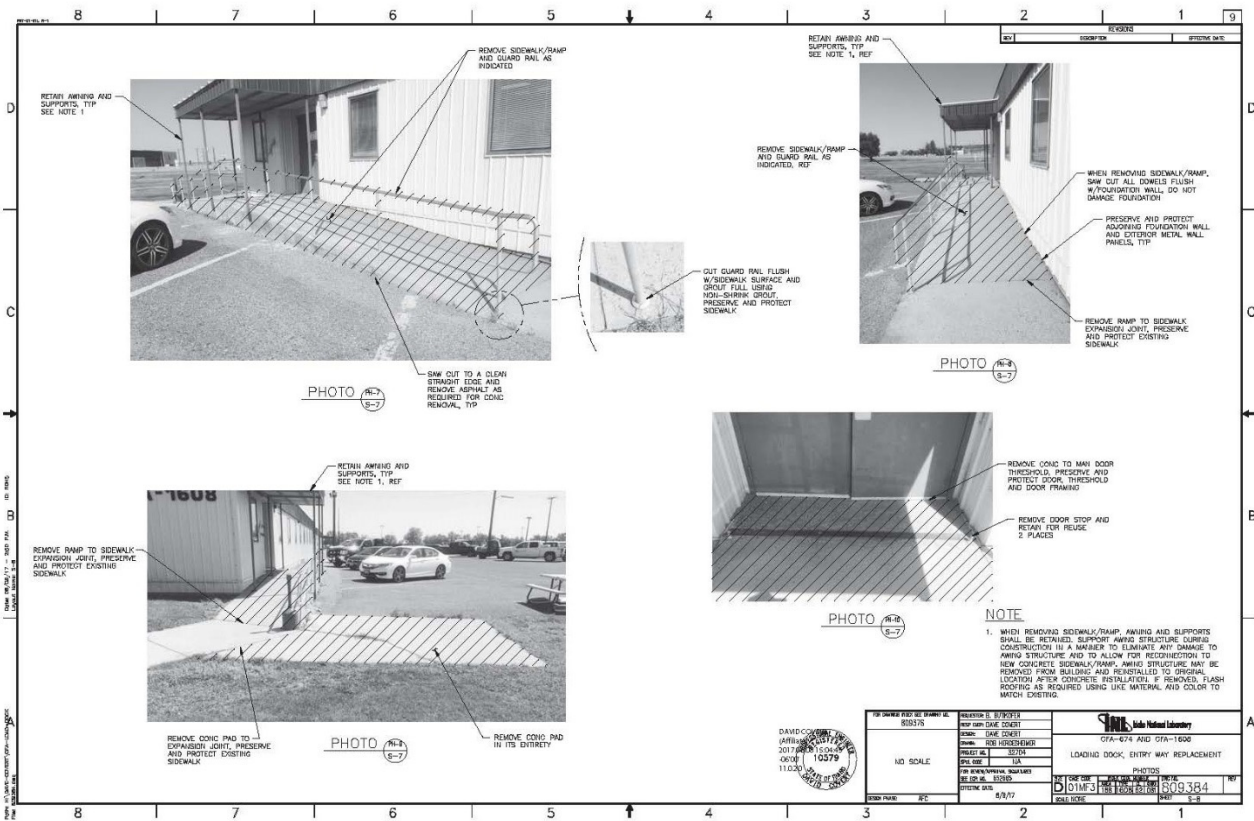
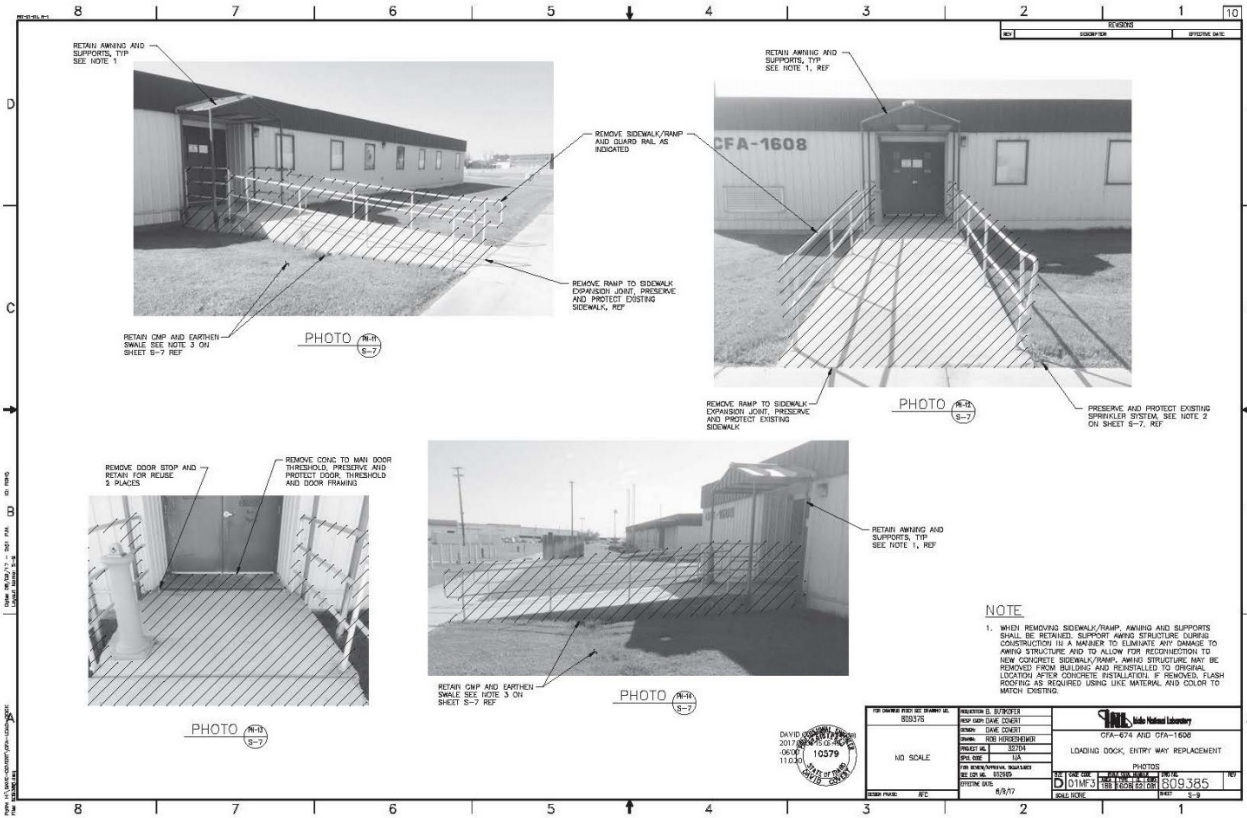


Figure 6. CFA-1608 Entryway Improvement



EBR-I Concrete Improvements

The proposed action also replaces sidewalks, curbing, a ramp, and railroad ties with concrete curbing at EBR-1 as detailed in Figure 7.

Figure 7. EBR-I Concrete Improvements



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SECTION C. Environmental Aspects or Potential Sources of Impact:

Air Emissions

Fugitive dust may be generated during construction.

Disturbing Cultural or Biological Resources

Project activities have the potential to disturb biological and cultural resources.

There are no known archaeological properties within the proposed project area. Additionally, the activity type described is exempt as ground disturbance within a fences facility perimeter in Table 1 of the INL Cultural Resource Management Plan (CRMP) (Idaho National Laboratory Cultural Resource Management Office. Idaho National Laboratory Cultural Resource Management Plan. DOE/ID-10997, revision 6, Idaho Falls, Idaho: U.S. Department of Energy, Idaho Operations Office, 2016, pg. 49). However, If at any time during project implementation cultural resources (i.e., bones, flakes of obsidian, "arrowheads" or other stone tools, bottles, tin cans, etc.) are discovered, all work in the area must cease until a CRMO Archaeologist can evaluate the resources. Contact L. Suzann Henrikson (208.526.2985) should any inadvertent or late discoveries occur during project implementation to arrange archaeological evaluation and cultural resource review.

EBR-I is listed on the National Register of Historic Places (NRHP) as a National Historic Landmark (NHL), and is considered a Signature historic property. CFA-674 (Warehouse) is eligible for nomination to the National Register of Historic Places and is considered a Category 3 historic property. Removal and/or changes of original features may adversely affect these historic properties; however, the project activities are exempt and may proceed as described without further cultural resource review. The described project activities fall under exemptions 2 (routine maintenance), 3 (replacement-in-kind), and 6 (safety systems) listed in Table 2 of the CRMP (Idaho National Laboratory Cultural Resource Management Office. Idaho National Laboratory Cultural Resource Management Plan. DOE/ID-10997, revision 6, Idaho Falls, Idaho: U.S. Department of Energy, Idaho Operations Office, 2016, pg. 51).

Generating and Managing Waste

The work scope will generate construction waste materials. Waste Generator Services (WGS) will assist in characterizing all waste and will manage any hazardous waste generated.

Releasing Contaminants

Typical construction chemicals such as fuels, lubricants, adhesives, etc. will be used during construction activities. Although not anticipated, there is a potential for spills when using chemicals or fueling equipment. In the event of a spill, notify facility PEL. If the PEL cannot be contacted, report the release to the Spill Notification Team (208-241-6400). Clean up the spill and turn over spill cleanup materials to WGS.

Using, Reusing, and Conserving Natural Resources

Recycled materials will be used to the greatest extent practicable in the selection of building materials.

SECTION D. Determine Recommended Level of Environmental Review, Identify Reference(s), and State Justification: Identify the applicable categorical exclusion from 10 Code of Federal Regulation (CFR) 1021, Appendix B, give the appropriate justification, and the approval date.

For Categorical Exclusions (CXs), the proposed action must not: (1) threaten a violation of applicable statutory, regulatory, or permit requirements for environmental, safety, and health, or similar requirements of Department of Energy (DOE) or Executive Orders; (2) require siting and construction or major expansion of waste storage, disposal, recovery, or treatment or facilities; (3) disturb hazardous substances, pollutants, contaminants, or Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)-excluded petroleum and natural gas products that pre-exist in the environment such that there would be uncontrolled or unpermitted releases; (4) have the potential to cause significant impacts on environmentally sensitive resources (see 10 CFR 1021). In addition, no extraordinary circumstances related to the proposal exist that would affect the significance of the action. In addition, the action is not "connected" to other action actions (40 CFR 1508.25(a)(1) and is not related to other actions with individually insignificant but cumulatively significant impacts (40 CFR 1608.27(b)(7)).

References: 10 CFR 1021, Appendix B to Subpart D, B2.5 "Facility safety and environmental improvements."

Justification: : Project activities are consistent with 10 CFR 1021, Appendix B to Subpart D, B2.5 "Safety and environmental improvements of a facility (including, but not limited to, replacement and upgrade of facility components) that do not result in a significant change in the expected useful life, design capacity, or function of the facility and during which operations may be suspended and then resumed. Improvements include, but are not limited to, replacement/upgrade of control valves, in-core monitoring devices, facility air filtration systems, or substation transformers or capacitors; addition of structural bracing to meet earthquake standards and/or sustain high wind loading; and replacement of aboveground and belowground tanks and related

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pipng, provided that there is no evidence of leakage, based on testing in accordance with applicable requirements (such as 40 CFR part 265, "Interim Status Standards for Owners and Operators Hazardous Waste Treatment, Storage, and Disposal Facilities" and 40 CFR part 280, "Technical Standards and Corrective Action Requirements for Owners and Operators of Underground Storage Tanks"). These actions do not include rebuilding or modifying substantial portions of a facility (such as replacing a reactor vessel)."

Is the project funded by the American Recovery and Reinvestment Act of 2009 (Recovery Act) Yes No

Approved by Jason Sturm, DOE-ID NEPA Compliance Officer on: 3/05/2018