

PUBLIC NOTICE

US Army Corps
of Engineers
Rock Island District

Applicant: Dallas County

Date: December 11, 2008
Expires: January 9, 2009

CEMVR-OD-P-2008-723

Section 404

**Joint Public Notice
US Army Corps of Engineers
Iowa Department of Natural Resources**

1. Applicant. Dallas County, 415 River Street, Adel, Iowa 50003.
2. Locations.
 - a. Project Location. The North Raccoon River and various adjacent wetlands in Section 3, Township 81 North, Range 29 West, Dallas County, Iowa.
 - b. Mitigation Location. Voas Nature Area in Sections 1 and 12, Township 80 North, Range 28 West, Dallas County, Iowa.
3. Project Description. The applicant proposes to replace the County Road P46 (D Avenue) bridge over the North Raccoon River and make general improvements on the roadways near the bridge. The project also includes construction of a wing dike, possible construction of a temporary crossing and work pads, channel shaping, placement of riprap, wetland impacts, and wetland mitigation. The purpose of this project is to provide improved service and safety levels for existing County Road P46 traffic.
 - a. Bridges. The existing 403-foot-long steel beam bridge will be replaced with a 384-foot-long pretensioned prestressed concrete beam bridge. The old bridge and its piers will be removed to one foot below the natural river bed.
 - b. General Roadway Improvements. The roadway improvements will include widening of the pavement, widening of the roadway shoulders, and re-sloping of the roadway embankments. The improved roadway will have 22-foot-wide pavement, 6-foot-wide shoulders, and average embankment slopes of 3:1.
 - c. Wing Dike. One wing dike will be constructed on the upstream north side of the bridge to protect the bridge abutment from out-of-bank flows. The wing dike will be approximately 106 feet long with a 20-foot top width and side slopes no steeper than 2.5:1. The side slope nearest the river will be protected with stone riprap.
 - d. Temporary Crossing and Work Pads. Demolition of the existing bridge structures and construction of the new bridge features will likely require a temporary crossing and work pads in the river. Any temporary crossing and/or work pads will be designed and constructed to maintain pre-construction downstream flow conditions. The temporary structures will be constructed using methods and materials that will prevent their erosion. Following removal of the old bridge and the construction of the new bridge, the temporary structures will be removed and all disturbed areas reshaped and stabilized to restore pre-construction streambed conditions. All structures will be fish passable and able to pass and withstand expected high flows.
 - e. Channel Shaping. The applicant will increase channel capacity at the bridge through excavation. A 33,000-square-foot un-vegetated sandbar will be removed from the north side of the river and approximately 5,500 square feet of river bank will be removed from the south side of the river. Approximately 2,000 square feet of riprap exists within the 5,472-square-foot area. The excavated riprap may be used elsewhere on this project.

f. Riprap Placement. In addition to the riprap to be placed on the wing dike (described above), the applicant proposes to place riprap along approximately 480 feet of the south river bank and 200 feet of the north river bank.

g. Wetland Impacts. The project will result in the permanent loss of 1.21 acres of wetland (0.75 acres of forested wetland and 0.46 acres of emergent wetland). Wetland losses will result from the placement of roadway embankment, the construction of the wing dike, the placement of riprap, and the construction of roadside ditches.

h. Wetland Mitigation. To compensate for wetland impacts, the applicant proposes to create and/or restore at least 1.5 acres of forested wetland and 0.69 acres of emergent wetland at the Voas Nature Area, approximately 10 miles southwest of the project area. The Voas Nature Area is owned and managed by the Dallas County Conservation Board. The mitigation area was actively farmed through 2004 and currently contains no wetland. The mitigation plan includes the construction of a 400-foot-long earthen berm with an in-line stop-log water control structure, grading, and the removal and day-lighting of drain tile. Wetland hydrology will be provided by storing rainfall runoff and tile discharge. The entire wetland mitigation area will be seeded with a diverse native wetland and prairie mix. On the 1.5-acre area to be forested wetland, the applicant proposes the planting of 40 Swamp White Oak trees.

4. Agency Review and Where to Reply.

a. Department of the Army, Corps of Engineers. The Department of the Army application is being processed under the provisions of Section 404 of the Clean Water Act (33 U.S.C. 1344).

b. State of Iowa. The project plans have been submitted to the Iowa Department of Natural Resources for state certification of the proposed work in accordance with Section 401 of the Clean Water Act. The certification, if issued, will express the Department's opinion that the proposed activity will comply with Iowa's water quality standards (Chapter 61 IAC). The applicant has also applied for authorization of work in the floodplain pursuant to Chapter 455B of the Iowa Code and other applicable state permits. Written comments concerning possible impacts to waters of Iowa should be addressed to: Iowa Department of Natural Resources, 900 East Grand Avenue, Des Moines, Iowa 50319. A copy of the comments should be provided to the Corps of Engineers office (see paragraph 11 of this public notice for address).

5. Historical/Archaeological. The Corps consulted with the District geographic information systems (GIS) archeological site and survey databases. The query determined that the permit area (including the wetland mitigation area) has not been surveyed for historic properties. The applicant will have to provide the Corps with two (2) original hard copies (and a digital copy in PDF format generated from original software, not scanned from the hard copy) of a Phase I archaeological survey report and geomorphological evaluation for both the footprint of the bridge construction and wetland mitigation areas. This must include the status of the old bridge in relation to the Iowa Bridge Inventory. The applicant may be required to conduct additional studies, site avoidance, or data recovery as may be the case.

6. Endangered Species. District staff have performed a preliminary review of this application for the potential impact on threatened or endangered species pursuant to Section 7 of the Endangered Species Act as amended. The U.S. Department of the Interior, Fish and Wildlife Service (FWS) list of Threatened and Endangered Species in Iowa lists the Prairie bush clover (*Lespedeza leptostachya*), Western prairie fringed orchid (*Platanthera praeclara*), and Topeka shiner (*Notropis topeka*) as having "Potential Habitat" in Dallas County. Based on the information provided by the applicant, there is no prairie in the project area, so it is unlikely that Prairie bush clover or Western prairie fringed orchid exist there. Also, as long as the applicant agrees to abide by the Best Management Practices for the Topeka shiner, this type of work in the North Raccoon River should have no effect on that species. While no formal consultation has been initiated with the FWS at this time, we are further coordinating this application with the FWS and the respective resource agencies through this public notice. Accordingly, our preliminary determination is subject to change should further information become available.

7. Dredge/Fill Material Guidelines. The evaluation of the impact of the proposed activity on the public interest will also include application of the guidelines promulgated by the Administrator of the United States Environmental Protection Agency under authority of Section 404(b) of the Clean Water Act (40 CFR Part 230).

8. Public Interest Review. The decision whether to issue the Corps permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the

proposal will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food production and, in general, the needs and welfare of the people.

9. Who Should Reply. The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity. These statements should be submitted on or before the expiration date specified at the top of page 1. These statements should bear upon the adequacy of plans and suitability of locations and should, if appropriate, suggest any changes considered desirable.

10. Public Hearing Requests. Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, the reasons for holding a public hearing. A request may be denied if substantive reasons for holding a hearing are not provided.

11. Reply to the Corps. Comments concerning the Corps permit should be addressed to the District Engineer, US Army Corps of Engineers, Rock Island District, ATTN: OD-P, Clock Tower Building - Post Office Box 2004, Rock Island, Illinois 61204-2004. **Mr. Neal Johnson (309/794-5379)** may be contacted for additional information.

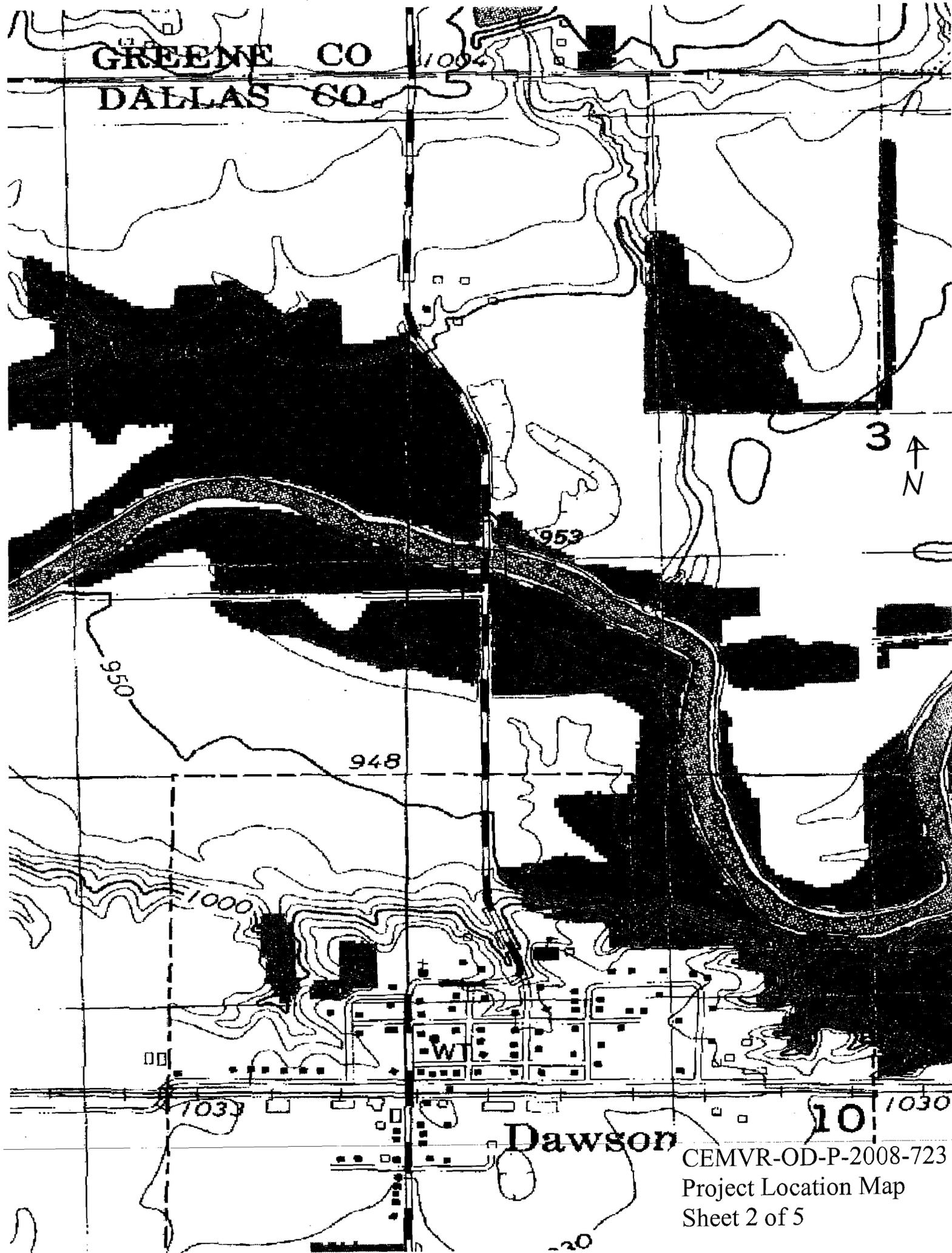


Neal Johnson
Project Manager
Regulatory Branch

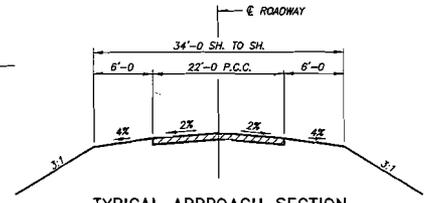
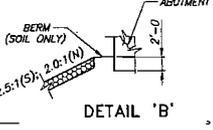
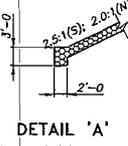
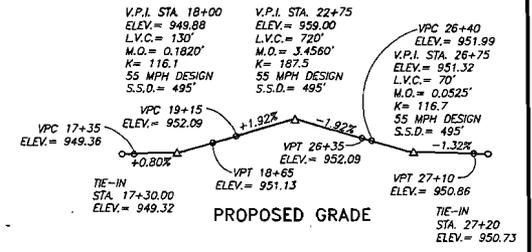
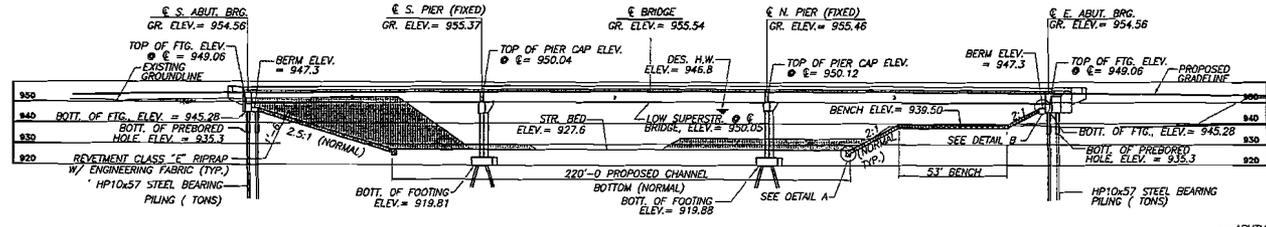
Attach
Plan

REQUEST TO POSTMASTERS: Please post this notice conspicuously and continuously until the expiration date specified at the top of page 1.

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CEMVR-OD-P-2008-723
Project Location Map
Sheet 2 of 5



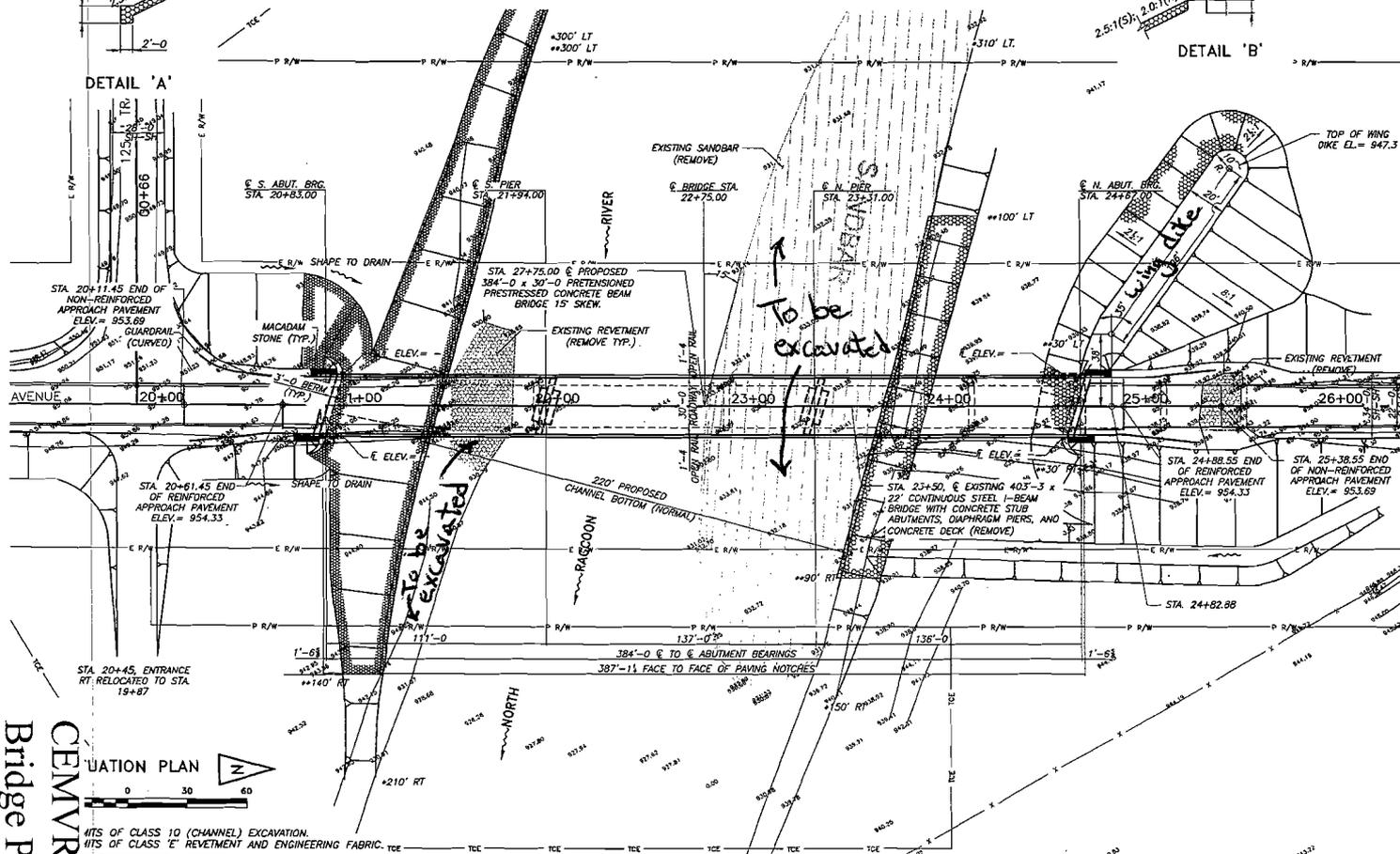
LOCATION
 DALLAS COUNTY
 T-81M, R-29W
 SECTION 3
 DALLAS TOWNSHIP
 OVER NORTH RACCOON RIVER

HYDRAULIC DATA
 DRAINAGE AREA = 2125.1 SQ. MI.
 DESIGN DISCHARGE = 23,800 C.F.S.
 DESIGN HIGH WATER ELEV. = 946.8
 MANNING SLOPE = .000263 FT./FT.
 BRIDGE WATERWAY AREA = 5,296 SQ. FT.
 DESIGN VELOCITY = 4.5 F.P.S.
 025 = 20,100 C.F.S. STAGE ELEV. = 946.1
 050 = 23,800 C.F.S. STAGE ELEV. = 946.8 (DESIGN)
 0100 = 27,300 C.F.S. STAGE ELEV. = 947.4
 0500 = 35,900 C.F.S. STAGE ELEV. = 948.7
 EXT. H.W. ELEV. = -
 ANTICIPATED O_{100} SCOUR ELEV. = -
 ANTICIPATED O_{500} SCOUR ELEV. = -

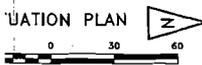
384'-0 x 30'-0 PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGE

INTEGRAL ABUTMENTS TEE PIERS
 111'-0 END SPANS 137'-0 INTERIOR SPAN
 136'-0

STATION 22+75 15' SKEW, LT AHEAD
 DALLAS COUNTY, IOWA



Sheet 3 of 5
 Bridge Plans
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NOTES:
 1. ALL CLASS 10 (CHANNEL) EXCAVATION.
 2. ALL CLASS 'E' RETAINMENT AND ENGINEERING FABRIC.
 3. BURNS & ASSOCIATES, INC. CONSULTING ENGINEERS
 4. MOINES, IOWA 50265 (515)224-4344

JOB NO. 2007254

DESIGNED BY: _____
 DRAWN BY: _____
 CHECKED BY: _____

DALLAS COUNTY

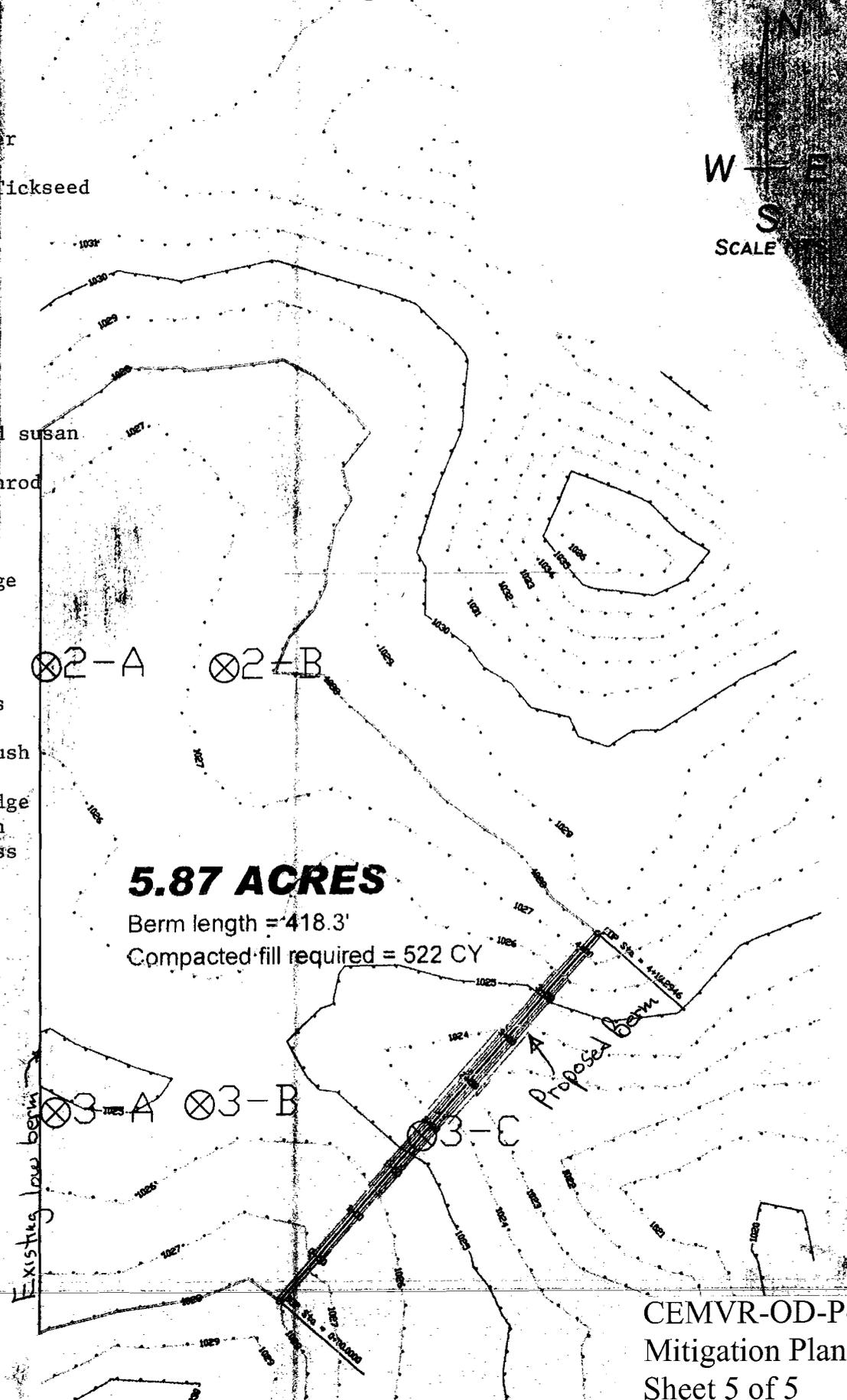
PROJECT NO. BRS-C025(72)--60-25

SHEET 2 OF 5

FIGURE 1-PROJECT AREA MAP

⊗1-A ⊗1-B

- Seed Mix
- Sweet Flag
- Flat-top Aster
- Bur Marigold
- Purple Topped Tickseed
- Field Aster
- Blue Top Aster
- Winged Hemp
- Trough Top Weed
- Blackberry
- Red Top Aster
- Blackberry
- Water Dock
- Riddell's Goldenrod
- Blue Vervain
- Ironweed
- Fringed Sedge
- Bottlebrush Sedge
- Hop Sedge
- Lurid Sedge
- Fox Sedge
- Spike Rush
- Reed Manna Grass
- Baltic Rush
- Dark Green Bulrush
- Wool Grass
- Three-square Sedge
- Softstem Bulrush
- Prairie Cordgrass



5.87 ACRES

Berm length = 418.3'

Compacted fill required = 522 CY