OMAHA SYSTEMS RESTORATION TEAM BRIEF

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SAME
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“The views, opinions and findings contained in this report are those of the author(s) and should not be construed as an official Department of the Army position, policy or decision, unless so designated by other official documentation.”
OVERVIEW – THE FLOOD

Flood Event Drivers
High soil moisture last fall leading into winter
Extraordinary cold Feb and early Mar
– Significant frost depths limiting infiltration
– Thick river ice
– Above normal, some record, snowfall
Cold rain/wet snow (~0.5-1”) Mar. 9-10
1-3” snow water equivalent across the lower basin
Warm-up starting Mon. Mar 11 with rain, 1-4 inches, later in the week with some ice jamming
Significant runoff across southeastern SD, eastern NE, and western IA

The devastation from the Flood of 2019 is unprecedented in the region.
– 45 River Gages set new records
  MO River (5); South Dakota (8); Iowa (8); Nebraska (24)

New Record River Stages Observed 14 – 20 March 2019
**RECORD FLOODING**

Columbus, NE – Loup River Flooding
14 Mar 2019
North Bend, NE – Platte River Flooding (16 Mar 2019)
Waterloo, NE – Elkhorn and Platte River Flooding (16 Mar 2019)
The devastation from the Flood of 2019 is unprecedented in the region.

- Widespread Damage – Over 50 Breaches
  - 4 of 4 priority Mo River breaches under contract
- Request for Assistance on Active Systems
  - 54 Levee Systems
  - 318 Miles of Levees
Omaha District Levee Status
Missouri River Levees

Omaha
Nebraska City
Rock Port

~80 miles (110 river miles)
INITIAL BREACH CLOSURES – TOP PRIORITIES
INLET BREACHES

L-611-614_AB_I
L-601_C_I
L-575_A_I
L-575_B_I
INITIAL BREACH CLOSURES – TOP PRIORITIES
INLET BREACHES (L-611-614_AB_I)

Scour depth 425ft downstream ~20ft below pre-flood ground elevation (elev. 939)
Max. scour depth ~70ft below top of levee (elev. 904)

450 feet

FLOW
L-611-614_A_I
Upper breach on L-611-614, ~4 miles SE of Offutt AFB on opposite side of river
Flying downstream, flow through breach is right to left, 27MAR2019
INITIAL BREACH CLOSURES – TOP PRIORITIES
INLET BREACHES (L-601_C_I)

Max. scour depth
~50ft below levee top

~600 ft
L-601 INLET BREACHES
FLYING SOUTH, 27MAR2019
INITIAL BREACH CLOSURES – TOP PRIORITIES
INLET BREACHES (L-575_A_I)
INITIAL BREACH CLOSURES – TOP PRIORITIES
INLET BREACHES (L-575_B_I)

Scour hole elev ~884 ft; pre-flood ground elev ~914 ft

Scour hole elev ~867 ft; top of levee elev ~922 ft

Max depth, ~55 ft below levee crest

600 ft downstream, depth ~30 ft below pre-flood ground elevation

FLOW
L-575_B_I
Middle breach on L-575, ~4.5 miles W of Hamburg, IA
Flying downstream, flow through breach is right to left, 27MAR2019
OUTLET BREACHES
L-611-614, DOWNSTREAM END
L-611-614, DOWNSTREAM END
20MAR2019
R-562, DOWNSTREAM END
TYPICAL TRIBUTARY DAMAGE
VALLEY-UNION DIKE – PLATTE RIVER, NE (DOUGLAS COUNTY)
INITIAL REPAIR
VALLEY-UNION DIKE – PLATTE RIVER, NE (DOUGLAS COUNTY)

PENDER – LOGAN CREEK RIGHT BANK
WHAT NOW?
ACTIVE PL84-99 LEVEE SYSTEMS WITH REQUESTS

Request for Assistance on Active Systems

• 54 Levee Systems
• 318 Miles of Levees
FOUR PRIORITY BREACHES – NOW UNDER CONTRACT
LEVEE L-575 INLET BREACHES
FIRM FIXED PRICE CONTRACTS ASSUMPTIONS

- Only 6 levee systems out of 54 are planned to be cost-reimbursable
  • Pieces of those 6 may also be broken off for fixed-price

- Variation in estimated quantities for most line items

- 100% bonding required

- Aggressive period of performance stated in terms of days
POTENTIAL INVITATION TO BID – FIXED-PRICED CONTRACTS

- Ames Dike
- Broken Bow
- Cedar Creek (Omaha F&W)
- Clear Creek-Platte RB
- Columbus – Loup River
- Council Bluffs
- Hooper
- Ida Grove
- L550-Rock Creek/Turkey Creek
- L-561
- Lake Waconda
- Norfolk - Elkhorn
- Omaha-Mo River RB
- Papio*

- Pender
- Pierce
- R548 – Little Nemaha & Happy Hollow
- R613/616
- Salt Creek (Lincoln)
- Scribner
- Union & No-Name
- Wakefield
- Waterloo
- Western Sarpy
- YMCA Camp Kitaki

* - Full & Open
POTENTIAL COST-REIMBURSABLE TASK ORDERS

• L611/614 Full Repairs RDI-1 (SB)
• L550-561 Interim Repairs RDI-1 (SDVO)
• L-594 Interim Repairs RDI-1 (SDVO)
• L550 Initial Breaches RDI-1 (UR)
• L575 Interim Repairs RDI-1 (UR)
• L-536 Full Repairs RDI-2 (UR)
• L-550 Full Repairs RDI-2 (UR)
• L-575 Full Repairs RDI-2 (UR)
• L-594 Full Repairs RDI-2 (UR)
CURRENT AND FUTURE COST-REIMBURSABLE MATOCS

Acquisition Overview
Rapid Disaster & Infrastructure (RDI)
Construction MATOC Vehicles
1st and 2nd Generation

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RDI #1 $30M Acquisition Plan (increased to $120M per JFKA signed 06.Nov.2018)

RDI #1 $455M UNR (July '14 – July '19)

RDI #1 $95M SDVOSB (Oct '17 – Oct '22)

RDI #1 $95M SIB (May '19 – May '24)

RDI #1 $95M Regional RfQ (Aug '19 – Aug '24) – ADVERTISED!!!

RDI #2 $2B Acquisition Plan and Consolidation Memos

RDI #2 $95M UNR (Oct '19 – Oct '27)

RDI #2 $654M Regional RfQ (Jan '20 – Jan '26) Planned

RDI #2 $459M SIB (Feb '20 – Feb '26) Planned

RDI #2 $145M SDVOSB (Mar '20 – Mar '26) Planned

RDI #2 $95M Hurricane (Apr '20 – Apr '26) Planned

AST Planning Tool

As of: 05/16/19
DAMAGES TO DAMS AND NAVIGATION

• Damages to flood control dams, including Gavins Point Dam and Fort Randall Dam, are currently be assessed.
• Damage to the Bank Stabilization and Navigation Project is anticipated to be assessed in 2020.
Iowa
56 counties

Nebraska
81 counties

No counties in South Dakota or Missouri
STAFFORD ACT

- Applies to contracts after a disaster declaration by the President

- Local Area Preference

  “…preference shall be given, to the extent feasible and practicable, to local firms…”

- Types of Local Area Preference
  • Evaluation Preference
  • Local Area Set-Aside
PREQUALIFICATION OF SOURCES

48 CFR § 236.272 Prequalification of Sources

(a) Prequalification procedures may be used when necessary to ensure timely and efficient performance of critical construction projects. Prequalification –

(1) Results in a list of sources determined to be qualified to perform a specific construction contract; and

(2) Limits offerors to those with proven competence to perform in the required manner.