City of Des Moines

Plans of Proposed Improvement for the Des Moines River

Simon Estes Amphitheater
Floodwall Improvements

Activity ID 08-2020-003

The Iowa statewide urban design and specifications for public improvements, plus current supplemental specifications and special provisions shall apply to construction work on this project.

Scales As Noted

City of Des Moines

Location Map

Department of Engineering
City of Des Moines, Iowa
TABLE OF ALIGNMENT COORDINATES (LINE):

<table>
<thead>
<tr>
<th>Number</th>
<th>Elevation</th>
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TABLE OF ALIGNMENT COORDINATES (CURVE):

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TYPICAL SECTION - FLOODWALL RAISE STA 138+90 TO STA 141+73

EXISTING FLOODWALL

FLOODWALL RAISE

EXISTING TO W ELEV. 30.2'

EXISTING GROUNDLINE

100-YR WATER SURFACE

ELEV. 26.7'

SCALE: 1"=10'

STA 140+50

FLOODWALL RAISE
<table>
<thead>
<tr>
<th>TASK</th>
<th>WORK CODE</th>
<th>UNIT</th>
<th>QUANTITY</th>
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<td>SF</td>
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<tr>
<td>2</td>
<td>614-001-C</td>
<td>LF</td>
<td>0.50</td>
</tr>
<tr>
<td>3</td>
<td>614-001-C</td>
<td>LF</td>
<td>0.50</td>
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**Temporary Traffic Control**

- *Type 1*
- *Type 2*
- *Type 3*
- *Type 4*

**Surveying**

- Temporary Survey Setting
- Shared Use Path, PCC, 6" Thick
- 9040-108-N-3
- 9040-108-N-2
- 9040-108-N-1

**Notes:**

- Petrolatum, 100% of the measured material area. This area is measured by a surveyor licensed in the State of Iowa.
- **Survey** shall be performed by a surveyor licensed in the State of Iowa.
- **Construction Surveying** includes, but is not limited to, construction staking, surveys required by the contract documents to verify locations of site features and grades, and as-built surveys.
- **Construction Surveying** includes, but is not limited to, providing construction surveying services pursuant to the contract documents.
- **Construction Surveying** includes, but is not limited to, providing construction surveying services pursuant to the contract documents.

**Mobilization**

- 600
- 350

**Concrete Washout**

- 5
- 3
- 4

**Miscellaneous**

- 7030-108-A-0
- 7030-108-C-0
- 8030-108-A-0

**Other**

- Note:

  - Measurement and payment descriptions in project specifications shall take precedence in cases of discrepancies.
GENERAL NOTES:

1. The purpose of the City of Des Moines levee improvements project is to raise the crest elevation at the Simon Estes Amphitheater site to increase the flood protection level.

2. The Contractor is responsible for providing all measures required by the Erosion and Sediment Control Plan. These measures may include, but are not limited to:

   a. Creating a sedimentation pond or sedimentation control structures.
   b. Implementing temporary erosion control measures.
   c. Conducting operations to minimize erosion and sedimentation.
   d. Mitigating the impact of construction activities on existing streams and water bodies.

3. Prior to any site work, the Contractor shall work with the Owner to develop and maintain a construction schedule that is consistent with the project schedule.

4. Before starting any work on the property, the Contractor shall notify the Owner and obtain a permit from the City of Des Moines.

5. The Contractor shall conduct all operations in accordance with applicable environmental, health, and safety regulations.

6. The Contractor shall maintain a 24-hour emergency response system for the duration of the project.

7. The Contractor shall ensure that all work is being conducted in accordance with the approved plans and specifications.

8. The Contractor shall provide temporary access to the project site as necessary to accommodate City events and projects.

9. The Contractor shall coordinate with other City projects and events as necessary.

10. The Contractor shall maintain a safe and secure construction site.

11. The Contractor shall be responsible for all construction activities in the vicinity of the project site.

12. The Contractor shall be responsible for all construction activities in the vicinity of the levee.

13. The Contractor shall conduct all operations in accordance with the approved plans and specifications.

14. The Contractor shall be responsible for all construction activities in the vicinity of the levee.

15. The Contractor shall be responsible for all construction activities in the vicinity of the levee.

16. The Contractor shall be responsible for all construction activities in the vicinity of the levee.

17. The Contractor shall be responsible for all construction activities in the vicinity of the levee.

18. The Contractor shall be responsible for all construction activities in the vicinity of the levee.

19. The Contractor shall be responsible for all construction activities in the vicinity of the levee.

20. The Contractor shall be responsible for all construction activities in the vicinity of the levee.

21. The Contractor shall be responsible for all construction activities in the vicinity of the levee.

22. The Contractor shall be responsible for all construction activities in the vicinity of the levee.

23. The Contractor shall be responsible for all construction activities in the vicinity of the levee.
NOTES:
1. See drawings U.04 to U.07 for stoplog closure details.
2. See drawings U.02 and U.03 for floodwall details.

REFERENCE SHEET:

SECTION OR DETAIL NO.
SHEET WHERE SHOWN

PROJECT
DATE
MARK
CITY OF DES MOINES, IOWA
DEPARTMENT OF ENGINEERING

AMPHITHEATER FLOODWALL IMPROVEMENTS
DES MOINES RIVER SIMON ESTES
12-20-2019

BEGIN FLOODWALL RAISE
STA. 138+90

END FLOODWALL RAISE
STA. 141+73

WALL RAISE FROM STA. 141+89 TO STA. 141+98 NEEDED FOR PRECAST SAWCUT PEDESTALS AS SIDEWALK REMOVAL.

STOPLOG CLOSURE CDM #77A
STOPLOG CLOSURE CDM #77B
STOPLOG CLOSURE CDM #77C
STOPLOG CLOSURE CDM #77D
STOPLOG CLOSURE CDM #77E

GATE CLOSURE CDM #75
SWING GATEWELL UNK1-D
GATE CLOSURE CDM #73C
NOT TO SCALE

DETAIL - WATTLE

1. ALL MATERIAL TO MEET SPECIFICATIONS.
2. FILTER MEDIA TO MEET APPLICATION REQUIREMENTS.
3. FILTER MEDIA TO BE REMOVED AND DISPOSED OFFSITE.

DETAIL - ROCK SOCK

1. ALL MATERIAL TO MEET SPECIFICATIONS.
2. FILTER MEDIA TO MEET APPLICATION REQUIREMENTS.
3. FILTER MEDIA TO BE REMOVED AND DISPOSED OFFSITE.

DETAIL - SILT FENCE

1. ALL MATERIAL TO MEET SPECIFICATIONS.
2. FILTER MEDIA TO MEET APPLICATION REQUIREMENTS.
3. FILTER MEDIA TO BE REMOVED AND DISPOSED OFFSITE.
1. **Concrete**
   - **General:**
     - **A.** Clear concrete areas near stoplog shall be 2
     - **B.** Reinforcing bars shall be spaced not more than 8
     - **C.** Concrete shall be provided where shown.

2. **Walls and Slabs**
   - **1.** Projected lines of all construction details shall be

3. **Foundation Concrete**
   - **A.** Concrete shall be provided where shown.

4. **Structural Notes**
   - **A.** Concrete cover shall be provided where shown.
   - **B.** Concrete cover shall be provided where shown.
   - **C.** Concrete cover shall be provided where shown.

5. **Walls and Slabs**
   - **1.** Concrete cover shall be provided where shown.

6. **Inspection**
   - **A.** Concrete cover shall be provided where shown.

7. **Walls and Slabs**
   - **1.** Concrete cover shall be provided where shown.

8. **Foundation Concrete**
   - **A.** Concrete cover shall be provided where shown.

9. **Walls and Slabs**
   - **1.** Concrete cover shall be provided where shown.

10. **Foundation Concrete**
    - **A.** Concrete cover shall be provided where shown.

11. **Walls and Slabs**
    - **1.** Concrete cover shall be provided where shown.

12. **Foundation Concrete**
    - **A.** Concrete cover shall be provided where shown.

13. **Walls and Slabs**
    - **1.** Concrete cover shall be provided where shown.

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**TABLE OF STOPLOGS**

<table>
<thead>
<tr>
<th>STOPLOGS</th>
<th>LENGTH OF LAP</th>
<th>TOP</th>
<th>BASE</th>
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<td>8</td>
<td>9.5</td>
<td>31.1</td>
<td>27.1</td>
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</tbody>
</table>

**REFERENCE SHEET**

- **DATE:** 12-20-2019
- **DRAWN BY:** AZM
- **CHECKED BY:** XXXXX
- **SURVEY:** XXXXX
- **NOTES:** XXXXX
**NOTES:**
1. CONTRACTOR TO PROVIDE SHOP (ERECTION) DRAWINGS FOR PRECAST RAISE CONSTRUCTION.
2. SHOP DRAWINGS TO INCLUDE CORNER CONNECTION TO PEDESTAL ALONG LINE OF PROTECTION WHERE STOPLOGS ARE BEING CONSTRUCTED.
3. CONTRACTOR TO CONSTRUCT THE RAISE WITH NO VOIDS ALONG THE LINE OF PROTECTION.
4. GROUT ANCHORS USING HILTI HIT-HY200 OR APPROVED EQUAL.
5. CONSTRUCTION OF RAISE TO ALIGN WITH EXISTING WALL.
6. EXISTING REINFORCEMENT NOT SHOWN FOR CLARITY.

**REFERENCES:**
- **SCALE:** 3"=1'-0"
- **SCALE:** 1/2"=1'-0"
- **SCALE:** 1"=1'-0"

**DIMENSIONS:**
- 2" MINIMUM EMBEDMENT (SEE NOTE 1)
- 2 4 HORIZ. BARS 2" MIN. EMBEDDMENT (SEE NOTE 2)
- 4 @ 18" (SEE NOTE)
- 95/8"± 3/8" (SEE NOTE)

**MATERIALS:**
- **EPOXY GROUT** (TYP.)
- **ELEV. 30.2' (TYP.)**
- **EXISTING GROUNDLINE**
- **荒7 4 HORIZ. BARS**
- **DESIGN CREST ELEV. 31.0'**
- **EXISTING WALL**

**PROJECT:** AMPLHETHEATER FLOODWALL IMPROVEMENTS

**DESIGN:**
- **FLOODWALL RAISE STA. 138+90 - STA. 141+73 (TYP.)**
- **ADA WALL RAMP RAISE STA. 141+89 - STA. 141+98**

**CONSTRUCTION:**
- **DETAIL - PRECAST CONCRETE CAP SECTION**
- **DETAIL - SAWCUT PEDESTALS FOR PRECAST CONCRETE CAP SECTION**
- **DETAIL - CORNER PEDESTAL RAISE**

**REFERENCES:**
- **REFERENCE KEY**
- **SECTION OR DETAIL NO.**
- **REFERENCE FILE NO.**
- **REFERENCE SHEET**
- **REFERENCE SHEET TITLE**
- **REFERENCE SHEET MARK**
- **DATE**
- **DESIGNED BY**
- **DRAWN BY**
- **SURVEY BY**
- **MARK**
- **ACTIVITY**
- **SHEET WHERE SHOWN**
- **REFERENCE KEY**
- **FILE NO.**
Notes:
1. Fresh weight of structural engineering and opening details shown in shop drawings.
2. Embraced stoplog shall be centered to be parallel to associated stoplog slot at other end in elevation.
3. Form 1/30-inch top to upper extension such that stoplog plaque flush with concrete surface.
4. Place embedded sill plaque flush with concrete surface.
5. Ensure top of sill plaque flush with concrete surface. Ensure form 1/2-inch recess in top of pedestrian extension such that sill plaque is free to move when bolts are removed.
6. Pedestal dimensions and opening of a shop drawing to be field verified and depicted in shop drawings.
7. Pedestal dimension of stoplog shall be shown at the scale of the existing structure such that existing pedestrian to be field verified and depicted in shop drawings.
8. Stoplog closure to be centered in existing sidewalk.
9. Pedestal to be maintained level with no more than 0.02-inch deviation from level.
10. Top of stoplog to be centered in existing sidewalk.

Details - Amphitheater Closures Locations #77B and #77C

Details and Engineering:
- CITY OF DES MOINES, IOWA
- DEPARTMENT OF ENGINEERING
- PROJECT NO. 01408014
- SHEET TITLE: AMPHITHEATER FLOODWALL IMPROVEMENTS
- SHEET DATE: 12-20-2019
- SHEET NUMBER: 08-2020-003

Section A-A'
- Footing to be protected, footing to remain.
- 2'-0" at 12" TF, 4-#6 bars.
- 1'-0" at 12" BF, 4-#6 bent bars.
- 2'-0" EF, 2-#6 bars.
- #6 U bar at 12".
- #6 L bar at 12".
- #5 bars at 12".
- #3 tie bar at 8".

Section B-B'
- Footing to be protected, footing to remain.
- 5'-6" at 12" TF, 6-#6 U bars.
- 8'-0" at 12" BF, 3-#6 L bars.
- 3" cover.
- #5 bars EF.
- #6 L bar.
- #6 bent bar.

Section C-C'
- Footing to be protected, footing to remain.
- 3'-0" at 12" TF, 4-#6 bars.
- 1'-0" at 12" BF, 2-#6 bars.
- #5 bars.
- #6 bar.
- #6 bent bar.

Section D-D'
- Footing to be protected, footing to remain.
- 5'-6" at 12" TF, 6-#6 U bars.
- 8'-0" at 12" BF, 3-#6 L bars.
- 3" cover.
- #5 bars EF.
- #6 L bar.
- #6 bent bar.

Section E-E'
- Footing to be protected, footing to remain.
- 3'-0" at 12" TF, 4-#6 bars.
- 1'-0" at 12" BF, 2-#6 bars.
- #5 bars.
- #6 bar.
- #6 bent bar.

Section F-F'
- Footing to be protected, footing to remain.
- 2'-0" at 12" TF, 4-#6 bars.
- 1'-0" at 12" BF, 2-#6 bars.
- #5 bars.
- #6 bar.
- #6 bent bar.

Section G-G'
- Footing to be protected, footing to remain.
- 3'-0" at 12" TF, 4-#6 bars.
- 1'-0" at 12" BF, 2-#6 bars.
- #5 bars.
- #6 bar.
- #6 bent bar.

Details - Structural Section or Detail No.
- Footing to be protected, footing to remain.
- 2'-0" at 12" TF, 4-#6 bars.
- 1'-0" at 12" BF, 4-#6 bent bars.
- 1'-0" at 12" EF, 2-#6 bars.
- #6 U bar at 12".
- #6 L bar at 12".
- #5 bars at 12".
- #3 tie bar at 8".
**Details - Structural**

**Sheet Where Shown**

**Reference Key**

**A**

**File No.**

**Sheet**

**Date**

**Notes**

**Survey**

**By**

**Drawn**

**Designed**

**Checked**

**Project**

**Mark**

**Scale: 3"=1'-0"**

**Scale: 6"=1'-0"**

**Scale: 3"=1'-0"**

**MIN. TOP OF STOPLOG ELEV. 31.0'**

**STOPLOGS INSTALLED**

**SECTION A-A WITHOUT**

**STOPLOGS INSTALLED**

**SECTION A-A WITH**
**Detail - Stoplog Slot - CDM #77E**

**Note:** All steel shall be stainless.

**Details:***

- **Stoplog Slot:**
  - **Material:** 3/8" steel
  - **Holes:** 5/8" dia. x 2 3/4" A307 bolts

**Surface Mounted Stoplog Slot - CDM #77E**

**Note:** All steel shall be stainless.