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### Notes:
- Pour steps monolithically with cap.

### PILE DATA
- Type: Nominal Required Bearing
- Factored Resistance Available: Est. Length
- No. Production Piles: No. Test Piles:

### BILL OF MATERIAL

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### FIELD CUTTING DIAGRAM
- Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite face.

### STATE OF ILLINOIS
- DEPARTMENT OF TRANSPORTATION
- ABUTMENTS
- STRUCTURE NO.

### PLAN

- Optional Construction Joint
- Elev.
- beam spaces at:
- typ. between bms.
- at cts., Each End
- typ. between bms.
- at cts., each End
- typ. between bms.

### ELEVATION
- beam spaces at:
- typ. between bms.
- at cts., Each End
- typ. between bms.

### SEC THRU ABUT

### FOR DETAILS OF PILES SEE SHEET
<table>
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<tr>
<th>No.</th>
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<th>Production Piles</th>
<th>Est. Length</th>
<th>Type</th>
<th>Factored Resistance Available</th>
<th>Nominal Required Bearing</th>
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**PILE DATA**

- **Type:**
- **Nominal Required Bearing:**
- **Factored Resistance Available:**
- **Elev.:**
- **No. Production Piles:**
- **No. Test Piles:**

**PLAN**

- **Dimensions at right angles to abutment.**
- **Skew:**
- **Plan:**
- **Section Thru Abut & Piles:**

**ELEVATION**

- **#8 @ 2'6" bars at cts., Each End**
- **Typ. btwn. bms. at cts., -#8 v2(E) bars**
- **(Place parallel to beams.)**
- **Elev.:**
- **See field cutting diagram**

**FIELD CUTTING DIAGRAM**

- **Order h1(E) and v4(E) Full length. Cut as shown and use remainder of bars in opposite face.**
- **2'-10"**
- **3'-10"**
- **6"**
- **5'-11"**
- **1'-0"**
- **3'-10"**
- **2'-10"**
- **3'-10"**
- **1'-0"**
- **6"**
- **5'-11"**
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- **3'-10"**
- **1'-0"**
- **6"**
- **5'-11"**
- **1'-0"**
- **3'-10""
Notes:
Pour steps monolithically with cap.

Optional Construction Joints

Elev.

2" Chamfer
Pour steps monolithically with cap.

Notes:
- typ. between bms.
- typ. between bms.

Elev.

Dimensions at right angles to abutment.

BILL OF MATERIAL

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<td>v4(E)</td>
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For details of piles see sheet 2 of 2.

FIELD CUTTING DIAGRAM

ORDER h(E) and v4(E) full length. Cut as shown and use remainder of bars in opposite face.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENTS
STRUCTURE NO.
Notes:
Pour steps monolithically with cap.

Pour steps monolithically with cap.

Optional Construction Joints

Beam spaces at =

Pitch 3" diagram)

(See field cutting diagram)

Ea. side of pile, typ.

Provide 1# extra turns, top & bott.

Provide 3# spacers or equivalent.

Cut as shown and

Order h1(E) and v4(E) full length. Cut as shown and

use remainder of bars in opposite face.

Length is height of spiral.

For details of piles see sheet  of .
Notes:
Pour steps monolithically with cap.

2" Chamfer Sta.
Back of Abutment

Optional Construction Joints

Order M10E and V4E Full length. Cut as shown and use remainder of bars in opposite face.

* Length is height of spiral. For details of piles see sheet of.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENTS
STRUCTURE NO.
Pour steps monolithically with cap.

Notes:
- Place parallel to beams.
- Use remainder of bars in opposite face.
- Provide 1½ extra turns, top & bottom.
- Optional Construction Joints.
- Use #4 or #5 spacers or equivalent.

Bill of Material

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Field Cutting Diagram

Order H2(E) and V4(E) full length. Cut as shown and use remainder of bars in opposite face.

Each End
- #5 H1(E) bars
- #5 V4(E) bars
- 2'-0" H2(E) bars, typ. btwn. bms.

Each Face
- 1'-0" V3(E) bars, typ. btwn. bms.
- 2'-0" V2(E) bars
- 6'-2" H2(E) bars, typ. btwn. bms.
- 2'-7" V2(E) bars

Pile Data

Type:
- Nominal Required Bearing
- Factored Resistance Available
- Est. Length
- No. Production Piles
- No. Test Piles
- No. Test Piles

Dimensions at right angles to abutment.
**PILE DATA**

**Type:**

Nominal Required Bearing:
Factored Resistance Available:
Est. Length:
No. Production Piles:
No. Test Piles:

**BAR DATA**

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**FIELD CUTTING DIAGRAM**

Order h(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.

**PLAN**

Dimensions at right angles to abutment.

**ELEVATION**

Dimensions at right angles to abutment.

**SEC. THRU ABUT.**

Dimensions at right angles to abutment.

**BILL OF MATERIAL**

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For details of piles see sheet of...
Pour steps monolithically with cap.

Optional Construction Joints

Dimensions at right angles to abutment.

**Notes:**

- Pour steps monolithically with cap.
- Use remainder of bars in opposite face.
- For details of piles see sheet of.
- Order h1(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.

**Bill of Material**

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**Pile Data**

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**Plan**

Field Cutting Diagram

Sec Thru Abut.

Dimensions at right angles to abutment.

**Elevation**

State of Illinois

Department of Transportation

Abutments

Structure No.
Notes:
Pour steps monolithically with cap.

For details of piles see sheet (See field cutting diagram).

ORDER h1(E) and v3(E) Full length. Cut as shown and use remainder of bars in opposite face.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
Notes:
Pour steps monolithically with cap.

PILL DATA
Type: H-16
Nominal Required Bearing: 2900
Factored Resistance Available: 1770
Est. Length: 15'9"
No. Production Piles: 6
No. Test Piles:

Order N(E) and V(E) full length. Cut as shown and use remainder of bars in opposite face.

FIELD CUTTING DIAGRAM
BAR h(E)
BAR h(E)
BAR s2(E) & s4(E)
BAR s3(E)
BAR u(E)

BILL OF MATERIAL

Type of pile: 40S-L

Dimensions at right angles to abutment.

Optional Construction Joint

Pour steps monolithically with cap.
Notes:
Pour steps monolithically with cap.  

Optional Construction Joints

Bar h(E), h1(E) or h2(E) use remainder of bars in opposite face.

Order h(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.

For details of piles see sheet of.

Dimensions at right angles to abutment.

Bill of Material

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<thead>
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<td>u(E)</td>
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Type:  
Nominal Required Bearing:
Factored Resistance Available:
Est. Length:

No. Test Piles:

Each End
-#5 u1(E) bars, each pile. Provide 1 #4 sp(E) spiral, 2'-0" Ø. Provide 3-#4 spacers or equivalent.

Order h(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.

Each End
-#5 v(E) bars at 12" cts. Each Face

Each End
-#5 v2(E) bars at 12" cts.

Each Face
-#5 v3(E) bars at 12" cts.

Beam spaces at =

Beam spaces at =

Back of Abut.

Abut and Piles

Provide 3-#4 spacers or extra turns, top & bottom.

Provide 3-#4 spacers or equivalent.

Each End
-#5 v2(E) bars

Each End
-#5 v(E) bars at 12" cts.

Each End
-#5 v(E) bars at 12" cts.

Each End
-#5 v(E) bars at 12" cts.

Each End
-#5 v(E) bars

Each End
-#5 v(E) bars

Typ. btwn. bms.

Typ. btwn. bms.

Back of Abut.

Each Face
-#5 v(E) bars

Each Face
-#5 v(E) bars

Each Face
-#5 v(E) bars

Each Face
-#5 v(E) bars

Elev.

Elev.

Elev.

Elev.

Elev.

Elev.

ELEVATION

PLAN

FIELD CUTTING DIAGRAM

2-17-2017

AI-40S-R
PILE DATA

Type: 
Nominal Required Bearing: 
Factored Resistance Available: 
Est. Length: 
No. Production Piles: 
No. Test Piles:

PLOT SCALE

PLOT DATE

CHECKED

DRAWN

CHECKED

REVISED

REVISED

DEPARTMENT OF TRANSPORTATION
STATE OF ILLINOIS

F.A.  
RTE.  
SECTION  
COUNTY

F.AID PROJECT  
CONTRACT NO.

TOTAL SHEETS

SHEET NO.

FILE NAME

USER NAME

STRUCTURE NO.

ABUTMENTS

BILL OF MATERIAL

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Concrete Structures 12 T.F.  
Reinforcement Bars  
Epoxy Coated  
Found  
Furnishing - Piles, Fuels  
Driving Piles  
Fuel Bars  

For details of piles see sheet of .

BILL OF MATERIAL

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Concrete Structures 12 T.F.  
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For details of piles see sheet of .
FIELD CUTTING DIAGRAM

PILE DATA

Type:
Nominal Required Bearing:
Factored Resistance Available:
Est. Length:
No. Production Piles:
No. Test Piles:

PLAN

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Structure Excavation
Concrete Structures
Concrete Bar
Epoxy Coated
Furnishing - Piles, Post
Furnishing Pipes
Test Pile
E.F.

For details of piles see sheet of .