<table>
<thead>
<tr>
<th>CELL / MODEL NAME</th>
<th>DESCRIPTION</th>
<th>DATE</th>
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<tbody>
<tr>
<td>SDI-BT6372-1</td>
<td>Superstructure Details; Integral; Bulb T-Beam 63-72 inch beam depth; Single span</td>
<td>2/17/2017</td>
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<tr>
<td>SDI-BT6372-2</td>
<td>Superstructure Details; Integral; Bulb T-Beam 63-72 inch beam depth; Multi-span</td>
<td>2/17/2017</td>
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<tr>
<td>SDI-I3642-1</td>
<td>Superstructure Details; Integral; I-Beam 36-42 inch beam depth; Single span</td>
<td>2/17/2017</td>
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<tr>
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<td>Superstructure Details; Integral; IL 27 inch beam depth; Single span</td>
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<td>SDI-IL27-2</td>
<td>Superstructure Details; Integral; IL 27 inch beam depth; Multi-span</td>
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<tr>
<td>SI-BT6372-1-0</td>
<td>Superstructure; Integral; I-Beam 63-72; Single span; No skew</td>
<td>2/17/2017</td>
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<tr>
<td>SI-BT6372-1-L-Greater than 30 degrees</td>
<td>Superstructure; Integral; Bulb T-Beam 63-72; Single span; Left skew; Greater than 30 degrees</td>
<td>2/17/2017</td>
</tr>
<tr>
<td>SI-BT6372-1-L-Less than or equal to 30 degrees</td>
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<tr>
<td>SI-BT6372-1-R-Greater than 30 degrees</td>
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<tr>
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<td>2/17/2017</td>
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SUPERSTRUCTURE
BILL OF MATERIAL

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<tr>
<th>Bar No.</th>
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<th>Grade</th>
<th>Shape</th>
<th>Length</th>
<th>Quantity</th>
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<td>#5</td>
<td>Epoxy Coated Reinforcement Bars, Epoxy Coated</td>
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<tr>
<td>#6</td>
<td>Concrete Superstructure</td>
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<td>4'-0&quot;</td>
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<tr>
<td>#5</td>
<td>Polyurethane Sealant</td>
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<td></td>
<td></td>
<td>5'-7&quot;</td>
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</tbody>
</table>

Notes:
- Fiber glass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
- The exterior surfaces of the fiber glass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.
- The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
- The clamping device and inserts shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.
- All of aluminum shall be ASTM B 209 alloy 6061-T6 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
- The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade (not 30,000 p.s.i. minimum).
- Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.
- Use AASHTO M 232. Cost of clamping device included with Floor Drains.
- The Polyurethane Shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type 5, Grade NS, Class 25. Use T with a 3" backer rod.
- The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type 5, Grade NS, Class 25. Use T with a 3" backer rod.
- The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type 5, Grade NS, Class 25. Use T with a 3" backer rod.
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SDI-BT6372-2
2-17-2017
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLOT DATE
PLOT SCALE
CHECKED
DESIGNED
REVISED
CHECKED
**For insert locations, see sheet of**
MINIMUM BAR LAP
(Faper) #4 bar = 2'-5" #8 bar = 3'-11"

PARAPET JOINT DETAILS

Notes:
- Fiberglass pipe shall conform to ASTZ D9996, with short-time rupture strength high tensile strength of 35,000 psi. minimum.
- The exterior surfaces of the fiberglass floor drains shall be pigmented by the manufacturer with a color that matches the concrete.
- The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.
- The clamping device and inserts shall be galvanized according to AASTHO N 332. Cost of clamping device included with Floor Drains.
- The 3/8 aluminum sheet shall be ASTM B 209 alloy 6061-T6 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.
- The Polyurethane Sealant shall be non-staining gray one component non-sag elastomeric gun grade meeting the requirements of ASTM C-920, Type 5, Grade NS, Class 25. Use T with a 3/8 backer rod.
- The 3/8 Prefilled Self-Expanding Cork Joint Filler shall be according to Article 1051.07 of the Std. Spec. Cost included with Concrete Superstructure.
- The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete. Cost included with Reinforcement Bars, Epoxy Coated.
- Headed bars shall conform to ASTM A615 with threaded attachment; Class I4, and reinforcement bars conforming to ASTM A416. Cost included with Reinforcement Bars, Epoxy Coated.

**SUPERSTRUCTURE DETAILS**
See sheet of for superstructure details and Bill of Material. Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

Notes:

out to out deck

end to end deck

effect to effect parapets

Total drop =

CROSS SECTION

(Looking )
MINIMUM BAR LAP

#5 bar = 7'-0"

* Order #5(E) & #6(E) bars full length.
Cut to fit skew and use remainder of bars in opposite end.

Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x #5(E) etc. indicates 20 lines of bars with 3 lengths per line.

PLAN

out to out deck

CROSS SECTION
(Looking )

Total drop =
PLAN

MINIMUM BAR LAP

#5 bar = 2'-0"

- Order #5(E) bars full length
- Cut to fit skew and use remainder of bars in opposite end.

-#5 a(E) bars at ± 12" cts.
-#5 b(E) bars at ± 12" cts.
-#5 a1(E) bars at ± 12" cts.
-#5 a(E) bars at ± 12" cts., top
-#5 a1(E) bars at ± 12" cts., bottom
-#5 b(E) bars at ± 12" cts.
-#5 b1(E) bars at ± 12" cts.

Bend a1(E) bar to fit
Back of Abut.

1'-7"  1'-7"

each end

out to out deck

out to out deck

Notes:
- See sheet of for superstructure details and Bill of Material.
- Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

20 lines of bars with 3 lengths per line.

CROSS SECTION

(Looking )

Total drop =
1. Bend d1(E) bar to fit.
2. #5 a1(E) bars at ±12" cts., to top of slab.
3. #5 a(E) bars at ±12" cts., top of slab.
4. #5 b(E) bars at ±12" cts., to top of slab.
5. #5 d(E) bars at ±12" cts., to top of slab.
6. #5 a1(E) bars at ±12" cts., bottom.
7. #5 a(E) bars at ±12" cts., top.
8. #5 b(E) bars at ±12" cts., bottom.
9. #5 d(E) bars at ±12" cts., bottom.
10. #5 b(E) bars at ±12" cts., top.
11. #5 b1(E) bars at ±12" cts., top.
12. #5 b1(E) bars at ±12" cts., bottom.
13. #5 b(E) bars at ±12" cts., to bottom.
14. #5 b1(E) bars at ±12" cts., to bottom.
15. #5 b(E) bars at ±12" cts., to top.
16. #5 b1(E) bars at ±12" cts., to top.
17. #5 d(E) bars at ±12" cts., to top.
18. #5 d1(E) bars at ±12" cts., to top.
19. #5 d(E) bars at ±12" cts., to bottom.
20. #5 d1(E) bars at ±12" cts., to bottom.

Notes:
- See sheet 1 for superstructure details and Bill of Material.
- Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
- Order a(E) & a1(E) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.

Si-BT6372-1-R(≤30°) 2-17-2017
MINIMUM BAR LAP

#6 bar = 7'-8"

Order #6(E) & #8(E) bars full length.
Cut to fit slope and use remainder of bars in opposite end.

PARTIAL PLAN

FACE to FACE PARAPETS

MINIMUM BAR LAP

slope %

#5 bar = 3'-6"

CUT BACK LEG OF #6(E) BAR TO FIT

Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

SI-BT6372-2-R(≤30°) 2-17-2017

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

FILE NAME = USER NAME = CHECKED = DRAWN = CHECKED = DESIGNED = REVISED = REVISED = REVISED = REVISED =
out to out deck

1'-7"

face to face parapets

spaces at
d(E)
d1(E)
b(E)
a2(E)

Total drop =

Notes:
See sheet 1 for superstructure details
and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates
20 lines of bars with 3 lengths per line.
MINIMUM BAR LAP

Order #5(E) & #5(E) bars full length.
Cut to fit skew and use remainder of bars in opposite end.

Notes:
- See sheet of for superstructure details
  and Bill of Material.
- Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

PLAN

out to out deck

CROSS SECTION

(Total drop =

spaces at
MINIMUM BAR LAP

\#6 bar = 2'-6"

- Order \#6(E) & \#10(E) bars full length
- Cut to fit skew and use remainder of bars in opposite end.

PLAN

Cut back leg of \#10(E) bar to fit

Back of Mod.

Cut back leg of \#10(E) bar to fit

- \#5 \#10(E) bars at 11" cts.
- \#5 \#10(E) bars at 6 1/2" cts.

PLAN

Notes:
- See sheet of for superstructure details and Bill of Material.
- Bars indicated thus 20 x 3-\#5 etc. indicates 20 lines of bars with 3 lengths per line.

CROSS SECTION

(Looking )
MINIMUM BAR LAP
#5 bar = 7'-0"

Order #6 & #8 bars full length.
Cut to fit skew and use remainder of bars in opposite end.

Notes:
See sheet for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

PLAN

CROSS SECTION
(looking )
MINIMUM BAR LAP

- #5 bar = 7'-0"
- Order #5 & #6 bars full length.
- Cut to fit skew and use remainder of bars in opposite end.

Notes:
- See sheet of for superstructure details and Bill of Material.
- Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

PLAN

OUT TO OUT DECK

CROSS SECTION
(looking)
MINIMUM BAR LAP
#5 bar = 2'-8"

- Order #6(1) & #6(2) bars full length
  Cut to fit skew and use remainder of bars in opposite end.

PARTIAL PLAN

out to out deck

1' 7"

slope %

face to face parapets

slope %

Total drop =

near pier

crossection

slope %

near midspan

2'-17-2017

SI-13654-2-(>30°)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

FILE NAME

CHECKED

DRAWN

DESIGNED

REVISED

DEPARTMENT OF TRANSPORTATION
STATE OF ILLINOIS

F.A.
RTE.
SECTION
CONTRACT NO.
TOTAL
SHEETS
SHEET
MINIMUM BAR LAP

- Order #6 & #3 bars full length
- Cut to fit skew and use remainder of bars in opposite end.

Notes:
- See sheet for superstructure details and Bill of Material
- Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

PARTIAL PLAN

1'-0"

2'-17-2017
MINIMUM BAR LAP
\#5 bar = 2'-6"
* Order \#61(E) & \#10(E) bars full length.
Cut to fit skew and use remainder of bars in opposite end.

PARTIAL PLAN
out to out deck

Notes:
See sheet for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-\#5 etc. indicates 20 lines of bars with 3 lengths per line.

Notes:
1-0"
each end
2-17-2017
SI-I3654-2-R(>30°)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUPERSTRUCTURE
STRUCTURE NO.

DEPARTMENT OF TRANSPORTATION
STATE OF ILLINOIS
F.A.
RTE.
SECTION
FED. AID PROJECT
COUNTY
CONTRACT NO.
TOTAL SHEETS
SHEET NO.
2-17-2017
SI-13654-2-R(>30°)

Notes:
See sheet for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-\#5 etc. indicates 20 lines of bars with 3 lengths per line.

Notes:
1-0"
each end
2-17-2017
SI-I3654-2-R(>30°)
MINIMUM BAR LAP
#5 bar = 7'-6"

PLAN
east to east deck

CROSS SECTION
(west to east deck)

Notes:
- See sheet of for superstructure details and Bill of Material.
- Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 01

FILE NAME = USER NAME =

PLOT SCALE = PLOT DATE =

CHECKED = DRAWN =
CHECKED = DESIGNED =
REVISED = REVISED = REVISED = REVISED =

DEPARTMENT OF TRANSPORTATION

F.A. RTE. SECTION
FED. AID PROJECT CNTY.
CONTRACT NO.
TOTAL SHEETS SHEET NO.

#5 6(E) bars at 17" cts.

Back of Abut.

#5 a(E) bars at cts. top
(Lap with #5 e(E) bars)

#5 a1(E) bars at cts., bottom

#5 a1(E) bars at cts., top

Back of Abut.

#5 d1(E) bars at 11" cts.

2 x #5 (E) bars at top of slab

3 x -#5 (E) bars

Top of slab

2-17-2017

2'-17"

4-#5 a(E) bars

Each End at 12" cts., top

#5 a(E) bars at 12" cts., each end

#5 b(E) bars at 12" cts., each end

Spaces "M"
**PLAN**

- #5 d(E) bars at 11' cts.
- Cut back leg of d(E) bar to fit

**CROSS SECTION** (Looking )

- #5 d(E) bars at cts. top
- #5 d(E) bars at cts. bottom

- #5 a(E) bars at cts., top
- #5 a(E) bars at cts., bottom

**Notes:**
- Use sheet 3 for superstructure details and Bill of Material.
- Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

**MINIMUM BAR LAP**

- #5 bar = 7'-0"

* Order #5 & #3 bars full length.
* Cut to fit skew and use remainder of bars in opposite end.

**Cut to fit skew**
MINIMUM BAR LAP
#5 bar = 2'-6"

- Order #6(E) & #10(E) bars full length
  Cut to fit skew and use remainder of bars in opposite end.

PLAN

CROSS SECTION
(Looking )

Notes:
See sheet 1 for superstructure details
and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates
20 lines of bars with 3 lengths per line.
MINIMUM BAR LAP

#5 bar = 2'-6"

Order #5EF & #5F bars full length.
Cut to fit skew and use remainder of bars in opposite end.

Notes:
See sheet of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

PLAN

FACE TO FACE PARAPETS

CROSS SECTION

(LOOKING )
MINIMUM BAR LAP

* Order #6(E) & #5(E) bars full length.
* Cut to fit skew and use remainder of bars in opposite end.

-#5(E) bars at 12" cts., top of slab
-#5(E) bars at 12" cts., bottom
-#5(E) bars at 17" cts.
-#5(E) bars at 17" cts.
-#5(E) bar to fit skew and use remainder of bars in opposite end.

Notes:
- See sheet of for superstructure details and Bill of Material.
- Bars indicated thus 20 x #5 etc. indicates 20 lines of bars with 3 lengths per line.

PLAN

CROSS SECTION

Total drop =

SI-IL2772N-1-R(≤30°) 2-17-2017
### MINIMUM BAR LAP

<table>
<thead>
<tr>
<th>Bar</th>
<th>Lap</th>
</tr>
</thead>
</table>
| #5 | 2'-0"

Order #5 & #10 bars full length.

Cut to fit skew and use remainder of bars in opposite end.

### Notes:
- See sheet for superstructure details and Bill of Material.
- Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
**MINIMUM BAR LAP**

- Order #6(E) & #3(E) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.

**PARTIAL PLAN**

- Cut back leg of d1(E) bar to fit.
- Bend d1(E) bar at top & bottom each end.

**CROSS SECTION**

- #5 bar = 3'-6"
- Total drop =
- Slope %
- Slope %
- Slope %
- Slope %
- Slope %

**Notes:**

- See sheet of for superstructure details and Bill of Material.
- Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
STRUCTURE NO. SUPERSTRUCTURE

out to out deck
1'-7"

face to face parapets
d(E)
d1(E)
b(E)
a2(E)
a1(E)

Total drop =

spaces at (Looking)

out to out deck
1'-0"

PLAN

MINIMUM BAR LAP
#5 bar = 7'-6"

PLAN

Notes:
See sheet 1 for superstructure details and Bill of Material.
Bars indicated thus 20 x #5 etc. indicates 20 lines of bars with 5 lengths per line.
MINIMUM BAR LAP
#5 bar = 3'-0"

- Order #6(E) & #5(E) bars full length
  Cut to fit skew and use remainder
  of bars in opposite end.

PLAN

out to out deck

MINIMUM BAR LAP
#5 bar = 3'-0"

- Order #6(E) & #5(E) bars full length
  Cut to fit skew and use remainder
  of bars in opposite end.

PLAN

out to out deck

CROSS SECTION
(looking )

#5 d(E) bars at 11" cts.
#5 d(E) bars at 11" cts.
#5 d(E) bars at 11" cts.
#5 d(E) bars at 11" cts.

Note:
See sheet for superstructure details
and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates
20 lines of bars with 5 lengths per line.

Notes:
See sheet for superstructure details
and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates
20 lines of bars with 5 lengths per line.
MINIMUM BAR LAP

#5 bar = 7'-6"

- Order #6(13 & 3#5) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.

Notes:
- See sheet of superstructure details and Bill of Material.
- Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
MINIMUM BAR LAP

#5 bar = 7'-8"

- Order #6(E) & #5(E) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.

Notes:
- See sheet of for superstructure details and Bill of Material.
- Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

CROSS SECTION

MINIMUM BAR LAP

#5 bar = 7'-8"

- Order #6(E) & #5(E) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.

Notes:
- See sheet of for superstructure details and Bill of Material.
- Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
MINIMUM BAR LAP

-#5 bar = 7'-6"

PARTIAL PLAN

Total drop =

Notes:
See sheet  of for superstructure details and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates
20 lines of bars with 3 lengths per line.
MINIMUM BAR LAP

* Order d(E) & a(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

PARTIAL PLAN

Notes:
See sheet of for superstructure details
and Bill of Material.
Bars indicated thus 20 x 3-#5 etc. indicates
20 lines of bars with 3 lengths per line.

CROSS SECTION

Total drop =

NEAR PIER

NEAR MIDSPAN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

FILE NAME =
USER NAME =
PLOT SCALE =
PLOT DATE =
CHECKED =
DRAWN =
CHECKED =
DESIGNED =
REVISED =

DEPARTMENT OF TRANSPORTATION
STATE OF ILLINOIS
F.A. RTE.
SECTION
CONTRACT NO.
TOTAL SHEETS
SHEET NO.
SHEETS

2-17-2017
PARTIAL PLAN

MINIMUM BAR LAP

- Order #6(E) & #13(E) bars full length.
- Cut to fit skew and use remainder of bars in opposite end.

Notes:
- See sheet of for superstructure details and Bill of Material.
- Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.

CROSS SECTION

Spaces at

NEAR PIERR

NEAR MIDSPAN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO.

FILE NAME =
USER NAME =
PLOT SCALE =
PLOT DATE =
CHECKED =
DRAWN =
CHECKED =
DESIGNED =
REVISED =
REVISED =
REVISED =
REVISED =

DEPARTMENT OF TRANSPORTATION
STATE OF ILLINOIS
F.A.
RTE.
SECTION
TOTAL SHEETS
SHEET NO.
CONTRACT NO.
FED. AID PROJECT