

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
80/94		COOK	631	496
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
	• (2425 & 2626) R-2			CONTRACT NO. 62111

**PIER 1  
BAR LIST**

Bar	No. I	Size	Length (m)	Shape
<del>h31(E)</del>	<del>4</del>	<del>#20</del>	<del>12.15</del>	<del>—</del>
<del>h32(E)</del>	<del>14</del>	<del>#25</del>	<del>11.00</del>	<del>—</del>
<del>p31(E)</del>	<del>12</del>	<del>#30</del>	<del>4.72</del>	<del>—</del>
<del>p32(E)</del>	<del>6</del>	<del>#30</del>	<del>10.12</del>	<del>—</del>
<del>p33(E)</del>	<del>6</del>	<del>#30</del>	<del>10.00</del>	<del>—</del>
<del>p34(E)</del>	<del>6</del>	<del>#30</del>	<del>2.09</del>	<del>—</del>
<del>p35(E)</del>	<del>12</del>	<del>#30</del>	<del>11.15</del>	<del>—</del>
<del>p40(E)</del>	<del>12</del>	<del>#30</del>	<del>3.09</del>	<del>—</del>
<del>s31(E)</del>	<del>38</del>	<del>#25</del>	<del>3.80</del>	<del>—</del>
<del>s32(E)</del>	<del>6</del>	<del>#20</del>	<del>2.93</del>	<del>—</del>
<del>s33(E)</del>	<del>3</del>	<del>#15</del>	<del>5.22</del>	<del>—</del>
<del>s34(E)</del>	<del>18</del>	<del>#15</del>	<del>2.50</del>	<del>—</del>
<del>s35(E)</del>	<del>4</del>	<del>#15</del>	<del>2.80</del>	<del>—</del>
<del>s36(E)</del>	<del>8</del>	<del>#15</del>	<del>1.96</del>	<del>—</del>
<del>s37(E)</del>	<del>24</del>	<del>#15</del>	<del>2.10</del>	<del>—</del>
<del>s38(E)</del>	<del>44</del>	<del>#15</del>	<del>3.40</del>	<del>—</del>
<del>s39(E)</del>	<del>40</del>	<del>#15</del>	<del>3.76</del>	<del>—</del>
<del>s40(E)</del>	<del>2</del>	<del>#15</del>	<del>2.60</del>	<del>—</del>
<del>s41(E)</del>	<del>38</del>	<del>#25</del>	<del>4.86</del>	<del>—</del>
<del>s42(E)</del>	<del>33</del>	<del>#15</del>	<del>0.96</del>	<del>—</del>
<del>t31(E)</del>	<del>26</del>	<del>#15</del>	<del>1.90</del>	<del>—</del>
<del>t32(E)</del>	<del>39</del>	<del>#25</del>	<del>2.70</del>	<del>—</del>
<del>u31(E)</del>	<del>4</del>	<del>#20</del>	<del>4.13</del>	<del>—</del>
<del>v31(E)</del>	<del>48</del>	<del>#35</del>	<del>5.55</del>	<del>—</del>
<del>w31(E)</del>	<del>11</del>	<del>#15</del>	<del>11.25</del>	<del>—</del>

**BILL OF MATERIAL**

Item	Unit	Total
<del>Concrete Structures</del>	<del>Cu m</del>	<del>53.0</del>
<del>Reinforcement Bars, Epoxy Coated</del>	<del>kg</del>	<del>7,750</del>
<del>Structure Excavation</del>	<del>Cu m</del>	<del>31</del>

**PIER 2  
BAR LIST**

Bar	No. I	Size	Length (m)	Shape
<del>h32(E)</del>	<del>14</del>	<del>#25</del>	<del>11.00</del>	<del>—</del>
<del>h33(E)</del>	<del>4</del>	<del>#20</del>	<del>11.75</del>	<del>—</del>
<del>p33(E)</del>	<del>6</del>	<del>#30</del>	<del>10.00</del>	<del>—</del>
<del>p35(E)</del>	<del>12</del>	<del>#30</del>	<del>11.15</del>	<del>—</del>
<del>p37(E)</del>	<del>6</del>	<del>#30</del>	<del>4.30</del>	<del>—</del>
<del>p38(E)</del>	<del>6</del>	<del>#30</del>	<del>9.70</del>	<del>—</del>
<del>p39(E)</del>	<del>6</del>	<del>#30</del>	<del>1.72</del>	<del>—</del>
<del>p40(E)</del>	<del>12</del>	<del>#30</del>	<del>3.09</del>	<del>—</del>
<del>p41(E)</del>	<del>6</del>	<del>#30</del>	<del>4.70</del>	<del>—</del>
<del>s31(E)</del>	<del>38</del>	<del>#25</del>	<del>3.80</del>	<del>—</del>
<del>s32(E)</del>	<del>6</del>	<del>#20</del>	<del>2.93</del>	<del>—</del>
<del>s33(E)</del>	<del>3</del>	<del>#15</del>	<del>5.22</del>	<del>—</del>
<del>s34(E)</del>	<del>18</del>	<del>#15</del>	<del>2.50</del>	<del>—</del>
<del>s35(E)</del>	<del>4</del>	<del>#15</del>	<del>2.80</del>	<del>—</del>
<del>s36(E)</del>	<del>8</del>	<del>#15</del>	<del>1.96</del>	<del>—</del>
<del>s37(E)</del>	<del>24</del>	<del>#15</del>	<del>2.10</del>	<del>—</del>
<del>s38(E)</del>	<del>44</del>	<del>#15</del>	<del>3.40</del>	<del>—</del>
<del>s39(E)</del>	<del>40</del>	<del>#15</del>	<del>3.76</del>	<del>—</del>
<del>s40(E)</del>	<del>2</del>	<del>#15</del>	<del>2.60</del>	<del>—</del>
<del>s41(E)</del>	<del>38</del>	<del>#25</del>	<del>4.86</del>	<del>—</del>
<del>s42(E)</del>	<del>33</del>	<del>#15</del>	<del>0.96</del>	<del>—</del>
<del>t31(E)</del>	<del>26</del>	<del>#15</del>	<del>1.90</del>	<del>—</del>
<del>t32(E)</del>	<del>39</del>	<del>#25</del>	<del>2.70</del>	<del>—</del>
<del>u31(E)</del>	<del>4</del>	<del>#20</del>	<del>4.13</del>	<del>—</del>
<del>v31(E)</del>	<del>48</del>	<del>#35</del>	<del>5.55</del>	<del>—</del>
<del>w31(E)</del>	<del>11</del>	<del>#15</del>	<del>11.25</del>	<del>—</del>

**BILL OF MATERIAL**

Item	Unit	Total
<del>Concrete Structures</del>	<del>Cu m</del>	<del>52.5</del>
<del>Reinforcement Bars, Epoxy Coated</del>	<del>kg</del>	<del>7,680</del>
<del>Structure Excavation</del>	<del>Cu m</del>	<del>33</del>

- Notes:**
- All dimensions are in millimeters (mm) except as noted.
  - Reinforcement bars designated (E) shall be epoxy coated.
  - See Sht. BS-56 for Bar Splicer details and Bill of Material.
  - Work this sheet with Shts. BS-46 and BS-50.

**THIS SHEET FOR INFORMATION ONLY**

**SHT. BS-54 OF 60**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. ROUTE 80/94 (KINGERY EXPRESSWAY)  
 EB & WB INSIDE LANES (MAINLINE) CONSTRUCTION  
 I-80/94 OVER BURNHAM AVENUE  
 STRUCTURE NO. 016-2791 STA. 6+772.591  
 SECTION 1977-121-R  
 COOK COUNTY

**PIER 1 & 2 BAR LIST  
& BILL OF MATERIAL - I**

DATE: 7/18/2005  
 DRAWN BY: NK  
 CHECKED BY: TCU

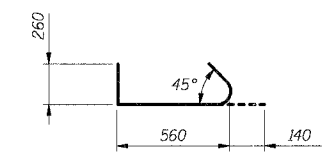
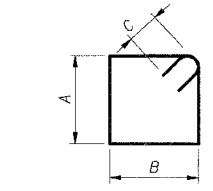
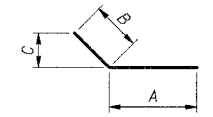
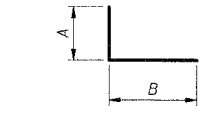
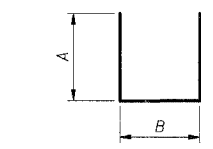
**TENG**  
 TENG & ASSOCIATES, INC.  
 ENGINEERS/ARCHITECTS/PLANNERS  
 CHICAGO, ILLINOIS

Bar	A (mm)	B (mm)
s31(E)	1520	760
s32(E)	1110	710
s34(E)	970	560
s35(E)	1120	560
s36(E)	730	500
s37(E)	800	500
s41(E)	2050	760
t32(E)	400	1900
u31(E)	1680	770

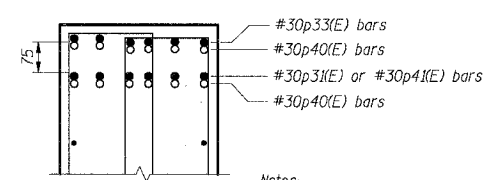
Bar	A (mm)	B (mm)
p40(E)	500	2590

Bar	A (mm)	B (mm)	C (mm)
p34(E)	1090	1000	300
p39(E)	1090	630	300

Bar	A (mm)	B (mm)	C (mm)
s33(E)	910	560	140
s38(E)	1060	500	140
s39(E)	1240	500	140
s40(E)	660	500	140



**Bar s42(E)**



**DETAIL 1**

- Notes:**
- p31(E), p33(E), and p41(E) bars shall be placed level (horizontally).
  - See pier elevation Shts. BS-46 and BS-50 for location and number of p(E) bars.

- Legends:**
- Straight bars
  - Hooked bars

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 7-2-2005 08:27:02 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63  
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