

62583

**BILL OF MATERIAL**

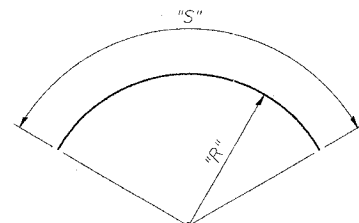
Light Tower Service Pad, Special with 3'-6" Wall (Note 4)

Bar	No.	Size	Length	Shape
h <sub>13</sub> (E)	1	#5	23'-6"	
h <sub>14</sub> (E)	1	#5	18'-11"	
h <sub>15</sub> (E)	1	#5	13'-7"	
h <sub>16</sub> (E)	1	#5	8'-4"	
h <sub>17</sub> (E)	1	#4	22'-1"	
h <sub>18</sub> (E)	1	#4	17'-9"	
h <sub>19</sub> (E)	1	#4	12'-9"	
h <sub>20</sub> (E)	1	#4	7'-10"	
n <sub>2</sub> (E)	25	#6	5'-10"	
t <sub>1</sub> (E)	25	#6	5'-1"	
v <sub>3</sub> (E)	7	#4	3'-10"	
v <sub>4</sub> (E)	7	#4	3'-2"	
w <sub>1</sub> (E)	1	#5	24'-4"	
w <sub>2</sub> (E)	1	#5	21'-7"	
w <sub>3</sub> (E)	1	#5	18'-10"	
w <sub>4</sub> (E)	1	#5	15'-5"	
w <sub>5</sub> (E)	1	#5	11'-6"	
Concrete Structures			Cu. Yd.	2.2
Reinforcement Bars, Epoxy Coated			Pound	150
Protective Coat			Sq. Yd.	9
Rustication Finish			Sq. Ft.	32

**BILL OF MATERIAL**

Light Tower Service Pad, Special with 5'-0" Wall (Note 4)

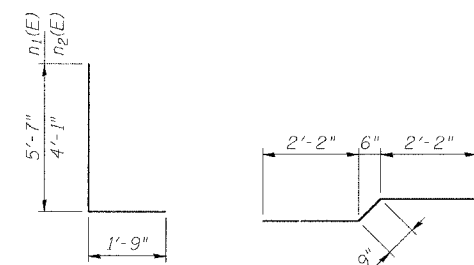
Bar	No.	Size	Length	Shape
h <sub>1</sub> (E)	1	#5	23'-6"	
h <sub>2</sub> (E)	1	#5	20'-10"	
h <sub>3</sub> (E)	1	#5	17'-8"	
h <sub>4</sub> (E)	1	#5	14'-6"	
h <sub>5</sub> (E)	1	#5	11'-4"	
h <sub>6</sub> (E)	1	#5	8'-2"	
h <sub>7</sub> (E)	1	#4	22'-1"	
h <sub>8</sub> (E)	1	#4	19'-7"	
h <sub>9</sub> (E)	1	#4	16'-7"	
h <sub>10</sub> (E)	1	#4	13'-7"	
h <sub>11</sub> (E)	1	#4	10'-8"	
h <sub>12</sub> (E)	1	#4	7'-8"	
n <sub>1</sub> (E)	25	#6	7'-4"	
t <sub>1</sub> (E)	25	#6	5'-1"	
v <sub>1</sub> (E)	7	#4	5'-0"	
v <sub>2</sub> (E)	8	#4	4'-8"	
w <sub>1</sub> (E)	1	#5	24'-4"	
w <sub>2</sub> (E)	1	#5	21'-7"	
w <sub>3</sub> (E)	1	#5	18'-10"	
w <sub>4</sub> (E)	1	#5	15'-5"	
w <sub>5</sub> (E)	1	#5	11'-6"	
Concrete Structures			Cu. Yd.	3.0
Reinforcement Bars, Epoxy Coated			Pound	210
Protective Coat			Sq. Yd.	12
Rustication Finish			Sq. Ft.	53



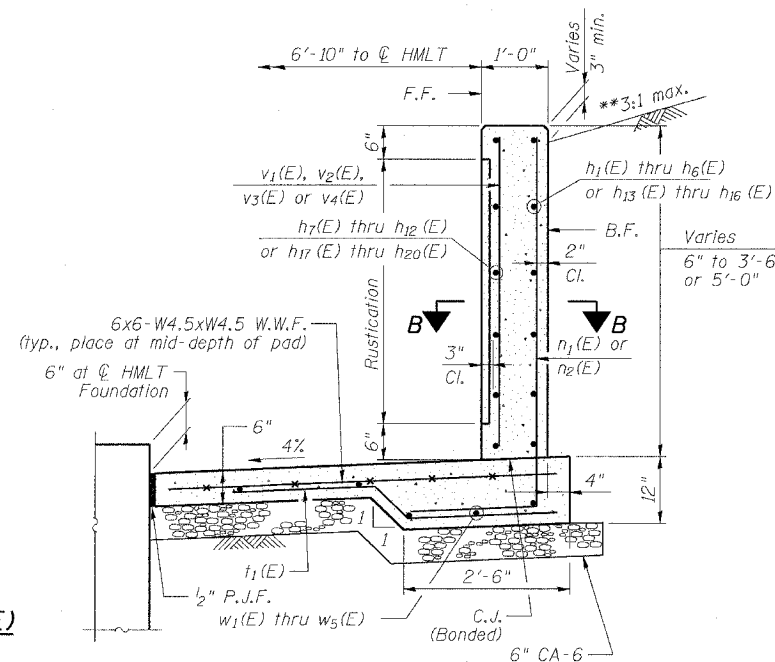
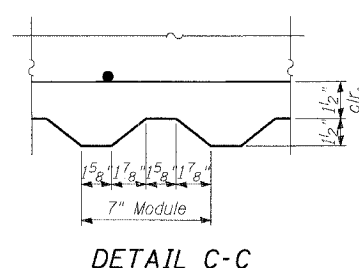
Bar	"R"	"S"	Bar	"R"	"S"
h <sub>1</sub> (E)	7'-7"	23'-6"	h <sub>14</sub> (E)	7'-7"	18'-11"
h <sub>2</sub> (E)	7'-7"	20'-10"	h <sub>15</sub> (E)	7'-7"	13'-7"
h <sub>3</sub> (E)	7'-7"	17'-8"	h <sub>16</sub> (E)	7'-7"	8'-4"
h <sub>4</sub> (E)	7'-7"	14'-6"	h <sub>17</sub> (E)	7'-1 1/2"	22'-1"
h <sub>5</sub> (E)	7'-7"	11'-4"	h <sub>18</sub> (E)	7'-1 1/2"	17'-9"
h <sub>6</sub> (E)	7'-7"	8'-2"	h <sub>19</sub> (E)	7'-1 1/2"	12'-9"
h <sub>7</sub> (E)	7'-1 1/2"	22'-1"	h <sub>20</sub> (E)	7'-1 1/2"	7'-10"
h <sub>8</sub> (E)	7'-1 1/2"	19'-7"	w <sub>1</sub> (E)	7'-7"	24'-4"
h <sub>9</sub> (E)	7'-1 1/2"	16'-7"	w <sub>2</sub> (E)	6'-8"	21'-7"
h <sub>10</sub> (E)	7'-1 1/2"	13'-7"	w <sub>3</sub> (E)	5'-10"	18'-10"
h <sub>11</sub> (E)	7'-1 1/2"	10'-8"	w <sub>4</sub> (E)	4'-9"	15'-5"
h <sub>12</sub> (E)	7'-1 1/2"	7'-8"	w <sub>5</sub> (E)	3'-6"	11'-6"

Note: "R" and "S" measured along bar  $\phi$

**BARS w<sub>1</sub>(E) thru w<sub>5</sub>(E) & h<sub>1</sub>(E) thru h<sub>20</sub>(E)**

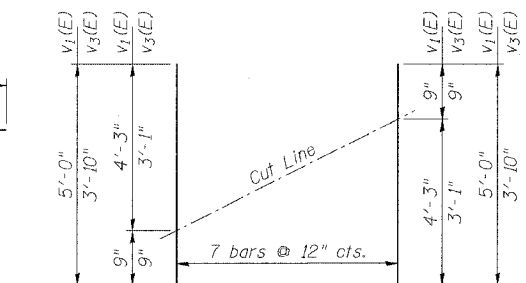


**BARS n<sub>1</sub>(E) & n<sub>2</sub>(E) BAR t<sub>1</sub>(E)**



**SECTION A-A**

\*\*See Roadway Cross Section Shts.



**\*CUTTING DIAGRAM**

Bars v<sub>1</sub>(E) & v<sub>3</sub>(E)

Order v<sub>1</sub>(E) & v<sub>3</sub>(E) bars full length and cut to fit as shown. Use remainder of bars as indicated on plans.

**NOTES**

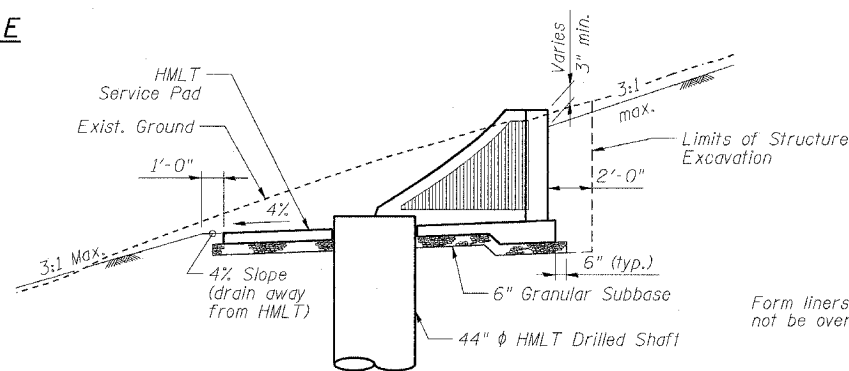
1. F.F. and B.F. denote Front Face and Back Face, respectively.
2. HMLT denotes High Mast Light Tower.
3. For location of High Mast Light Tower Foundations, see Roadway Lighting Plan sheets.
4. Bars n<sub>1</sub>(E), n<sub>2</sub>(E), t<sub>1</sub>(E) and w<sub>1</sub>(E) thru w<sub>5</sub>(E) will not be measured and paid separately but will be included in the cost of Light Tower Service Pad, Special. See Special Provisions.
5. See IDOT Standard Drawing BE501 for additional High Mast Light Tower foundation and ground well details.
6. Reinforcement Bars designated (E) shall be epoxy coated.
7. Refer to High Mast Light Tower Service Pad & Retaining Wall Details 1 for location and orientation of conduit sleeves and grounding wells.
8. Contractor shall maintain integrity of Frontage Roads as may be required in excavating for HMLT service pad walls.
9. Provide Protective Coat to top, front face, ends of walls, and to the top of the concrete service pad.

**TOTAL BILL OF MATERIAL**

Item	Unit	Total
Light Tower Service Pad, Special	Sq. Ft.	137
Structure Excavation	Cu. Yd.	33
Concrete Structures	Cu. Yd.	3.0
Reinforcement Bars, Epoxy Coated	Pound	210
Rustication Finish	Sq. Ft.	53
Protective Coat	Sq. Yd.	27.22

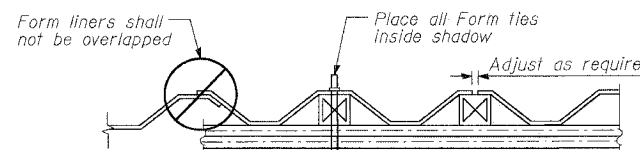
**HMLT SERVICE PAD/RETAINING WALL SCHEDULE**

HMLT I.D.	Service Pad/Retaining Wall Requirements
6 RMNI	Service Pad with 5'-0" Retaining Wall



**SECTION THRU EMBANKMENT**

(At Typ. Tower Location)  
HMLT not shown for clarity



**SUGGESTED FORMWORK DETAIL**

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
31st STREET TO I-57  
HIGH MAST LIGHT TOWER SERVICE PAD  
& RETAINING WALL DETAILS 2

SCALE: N.T.S. DRAWN BY:  
DATE: October 29, 2004 CHECKED BY:

ME-13B