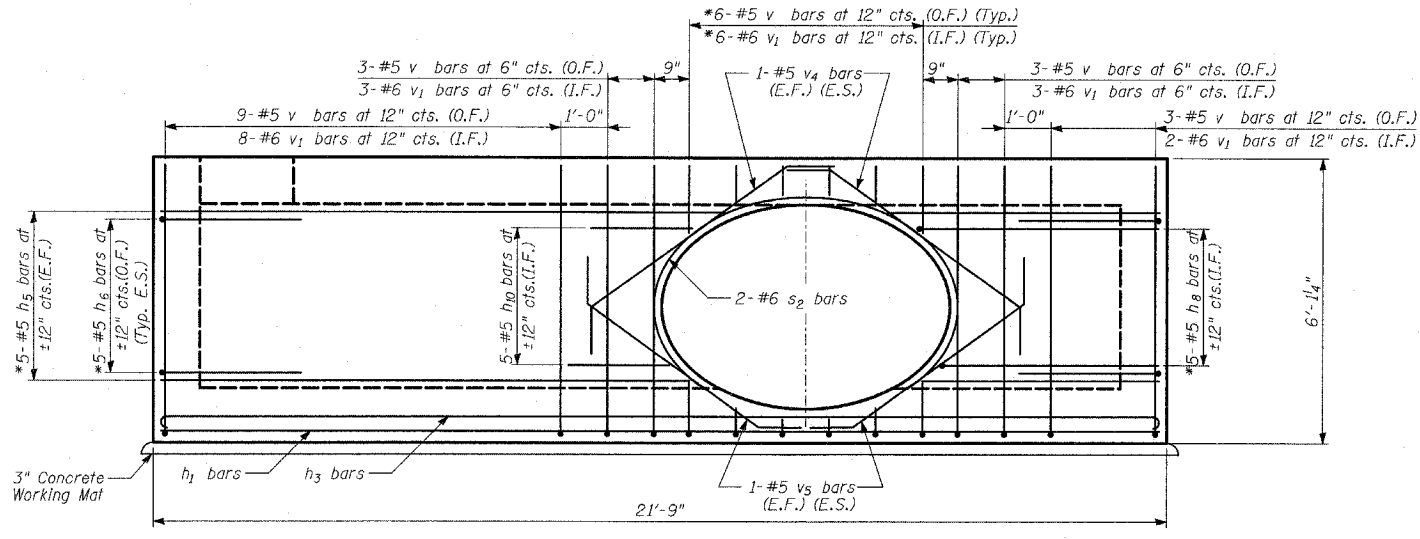
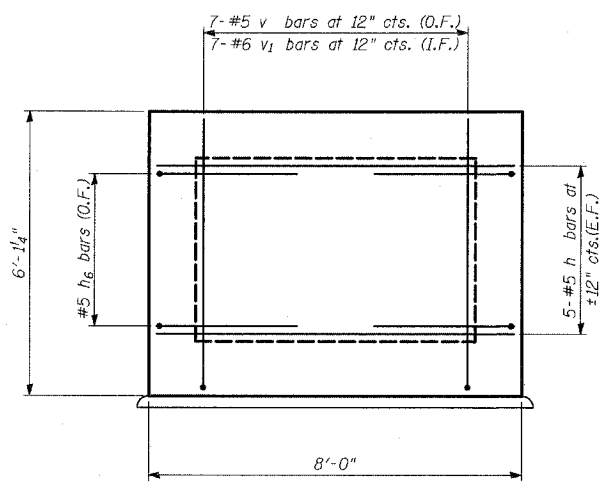


**BILL OF MATERIAL**

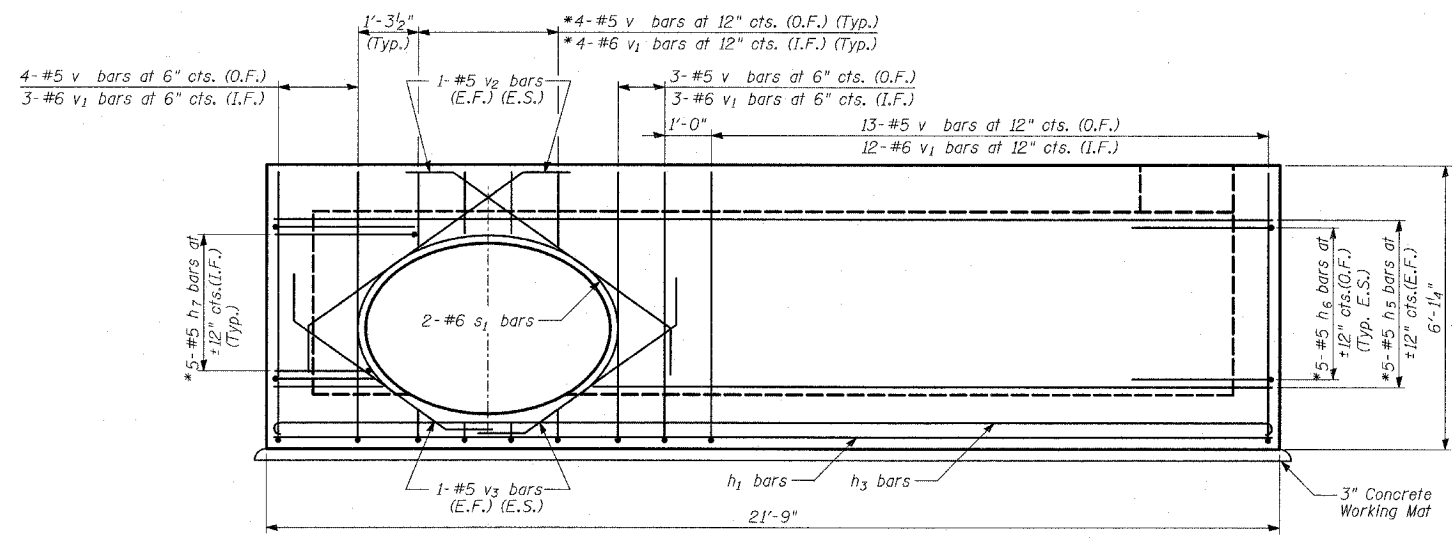
Bar	No.	Size	Length	Shape
a	4	#5	2'-2"	—
a <sub>1</sub>	12	#5	4'-8"	—
a <sub>2</sub>	45	#6	7'-8"	—
a <sub>3</sub>	3	#8	7'-8"	—
a <sub>4</sub>	42	#8	9'-6"	—
a <sub>5</sub>	8	#8	9'-2"	—
a <sub>6</sub>	4	#8	8'-10"	—
h	20	#5	7'-8"	—
h <sub>1</sub>	17	#6	21'-5"	—
h <sub>2</sub>	3	#8	21'-5"	—
h <sub>3</sub>	19	#6	22'-9"	—
h <sub>4</sub>	3	#8	23'-3"	—
h <sub>5</sub>	20	#5	21'-5"	—
h <sub>6</sub>	20	#5	6'-0"	—
h <sub>7</sub>	10	#5	4'-2"	—
h <sub>8</sub>	5	#5	7'-7"	—
h <sub>9</sub>	8	#5	3'-6"	—
h <sub>10</sub>	5	#5	4'-1"	—
s	2	#5	9'-6"	—
s <sub>1</sub>	2	#5	11'-0"	—
s <sub>2</sub>	2	#5	13'-2"	—
v	62	#5	8'-7"	—
v <sub>1</sub>	58	#6	6'-8"	—
v <sub>2</sub>	4	#5	7'-9"	—
v <sub>3</sub>	4	#5	6'-0"	—
v <sub>4</sub>	4	#5	7'-2"	—
v <sub>5</sub>	4	#5	5'-6"	—
Reinforcement Bars	POUND		5,760	
Concrete Structures	CU YD		21	



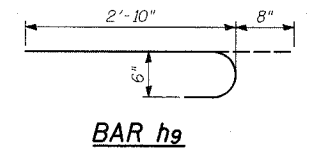
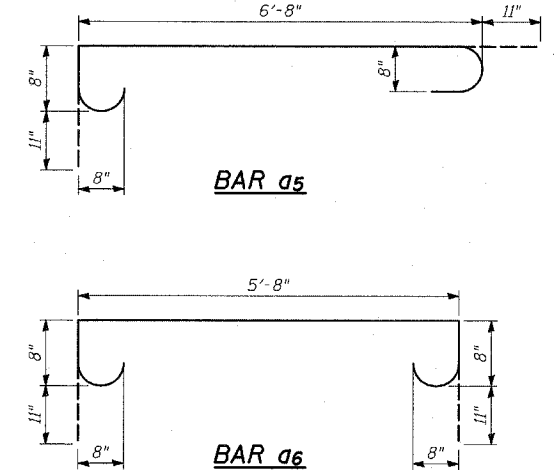
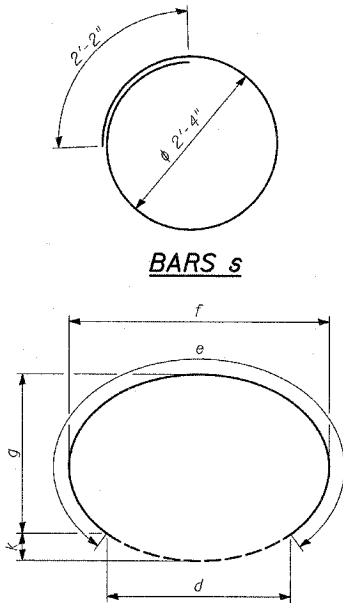
**SECTION B-B**



**SECTION D-D**  
(Opposite Wall Typical)

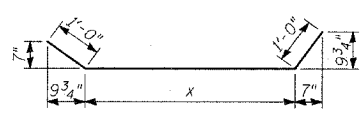


**SECTION E-E**



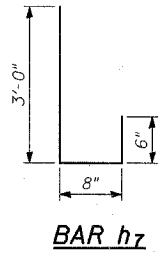
Bar	d	e	f	g	k
s <sub>1</sub>	3'-11 1/4"	11'-0"	5'-7"	3'-5"	7"
s <sub>2</sub>	4'-4 3/8"	13'-2"	6'-6 1/4"	4'-1 1/4"	7 1/4"

Bar	a	b	c
a <sub>4</sub>	11"	7'-8"	8"
h <sub>3</sub>	8"	21'-5"	6"
h <sub>4</sub>	11"	21'-5"	8"

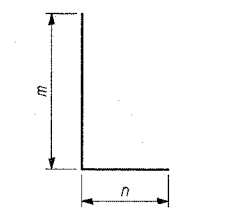


**BARS v<sub>2</sub>, v<sub>3</sub>, v<sub>4</sub> & v<sub>5</sub>**

Bar	x
v <sub>2</sub>	5'-9"
v <sub>3</sub>	4'-0"
v <sub>4</sub>	5'-2"
v <sub>5</sub>	4'-6"



**BAR h<sub>7</sub>**



**BARS h<sub>6</sub>, v & v<sub>1</sub>**

Bar	m	n
h <sub>6</sub>	3'-0"	3'-0"
v	5'-8"	2'-11"
v <sub>1</sub>	5'-8"	1'-0"

**LEGEND:**

- \* Cut bars to fit in field.
- E.F. - denotes Each Face
- E.S. - denotes Each Side
- I.F. - denotes Inside Face
- O.F. - denotes Outside Face

**NOTES:**

- All dimensions and elevations shall be field verified prior to construction.
- Concrete pipe sizes shall be coordinated with openings provided into junction chamber before pouring concrete.
- Manhole Frame, Ladder Rungs, and any Inserts installation shall be coordinated with Roadway Plans.
- Concrete cover for reinforcement steel to be 2" unless otherwise noted.
- All concrete edges shall be chamfered 1 inch.
- All lap splices marked on the drawings are minimum.
- Concrete Compressive Strength  $f'_c = 3,500$  psi.
- Steel Yield Strength = 60,000 psi.
- Work this Sheet with Sheets 1 and 2 of 3.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 F.A.I. 94 (DAN RYAN EXPRESSWAY)  
**JUNCTION CHAMBER 166**  
**DETAILS 2**

S.N. DESIGNED BY: MAF, PL  
 SCALE: N.T.S. DRAWN BY: MAF, PL  
 DATE: MARCH 7, 2006 CHECKED BY: MI