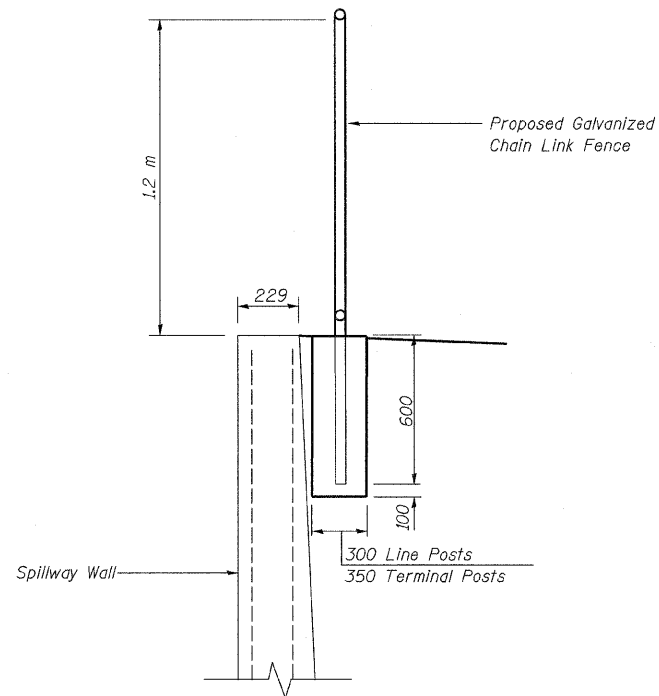


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
204	92-00297-00-BR	ROCK ISLAND	31	24
STA. 0+270		TO STA. 0+340		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT		

**SPILLWAY REPAIRS  
CONSTRUCTION SEQUENCE**

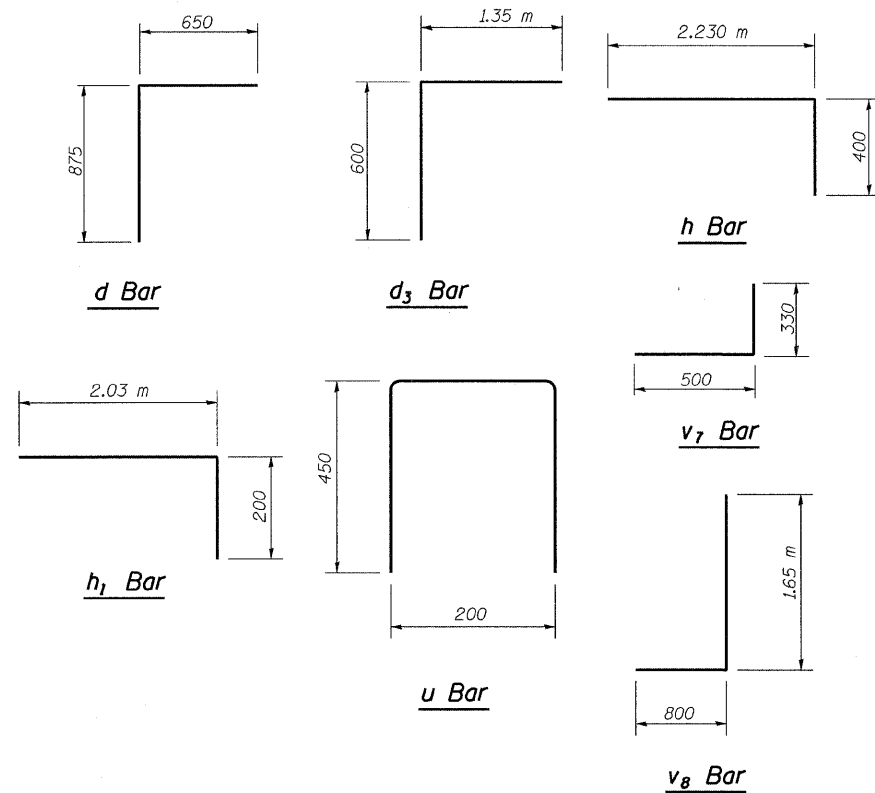
1. Coordinate guardrail removal & reinstallation with bridge and roadway work to allow equipment access to applicable construction areas. (Stage I & Stage II of bridge work)
2. Remove & dispose of existing chain link fence on north side of roadway.
3. Set up safety fencing & barricades in place of chain link fence.
4. Perform required work on the spillway slab, walls, weir, and stilling basin.
5. Excavate behind spillway walls.
6. Install pipe underdrains & backfill.
7. Furnish and place topsoil.
8. Install proposed chain link fence.
9. Seed construction limits, fertilize & mulch.
10. Complete Stage I Bridge & Roadway work.
11. Reinstall guardrail before switching traffic over to Stage II bridge work.
12. Remove and replace chain link fence on south side of roadway during Stage II bridge & roadway work.
13. Complete Stage II Bridge & Roadway work.
14. Reinstall guardrail & terminals.



**FENCE POST DETAIL**  
(See Std. 664001-01)

**BILL OF MATERIAL**

Bar	No.	Size	Length (m)	Shape
d <sub>2</sub>	50	#20	10.95	—
d <sub>3</sub>	100	#20	3.87	—
d <sub>4</sub>	8	#20	9.45	—
b <sub>3</sub>	60	#20	12.19	—
d	122	#15	1.53	┌
d <sub>1</sub>	8	#15	10.95	┌
d <sub>2</sub>	16	#15	3.87	┌
d <sub>3</sub>	16	#20	1.95	┌
d <sub>4</sub>	9	#20	2.90	┌
h	3	#15	2.63	┌
h <sub>1</sub>	3	#15	2.23	┌
h <sub>2</sub>	8	#20	2.90	┌
u	62	#15	1.10	┌
v <sub>6</sub>	15	#15	1.58	┌
v <sub>7</sub>	30	#15	0.83	┌
v <sub>8</sub>	16	#20	2.45	┌
v <sub>9</sub>	8	#20	1.20	┌
Stone Riprap Ditch Checks			Each	8
Earth Excavation			Cu. M	585
Porous Granular Embankment			Cu. m	113
Topsoil Furnish & Place, 150mm			Sq. m	400
Seeding, Class 4			Ha	0.29
Nitrogen Fertilizer Nutrient			Kg	29
Phosphorus Fertilizer Nutrient			Kg	29
Potassium Fertilizer Nutrient			Kg	29
Mulch, Method 2			Ha	0.29
Stone Dumped Riprap, Class A5			Sq. m	220
Concrete Removal			Cu. m	69.5
Concrete Structures			Cu. m	72.8
Furnishing and Erecting Structural Steel			L Sum	1
Reinforcement Bars			Kg	5,140
Pipe Underdrains for Structures, 150 mm			Meter	204
Chain Link Fence, 1.2 m			Meter	141
Chain Link Fence Removal			Meter	141
Joint Sealer			Meter	164.9
Repair Concrete Structures			Sq. m	41.4
Dewatering			L Sum	1



**MIN. BAR LAPS**

#15 bar = 490  
#20 bar = 610

**DESIGN STRESSES**

f'c = 24 MPa (3,500 psi)  
fy = 400 MPa (60,000 psi) (Reinforcement)  
fy = 250 MPa (36 ksi), M 270M, Gr. 250 (Structural Steel)  
fy = 317 MPa (46 ksi), ASTM A500, Gr. B (Structural Tubing)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**SPILLWAY DETAILS**  
C.H. 59 OVER  
LAKE GEORGE SPILLWAY  
ROCK ISLAND, COUNTY  
DRAWN BY RAP  
CHECKED BY JBF  
DATE NOV. 2007